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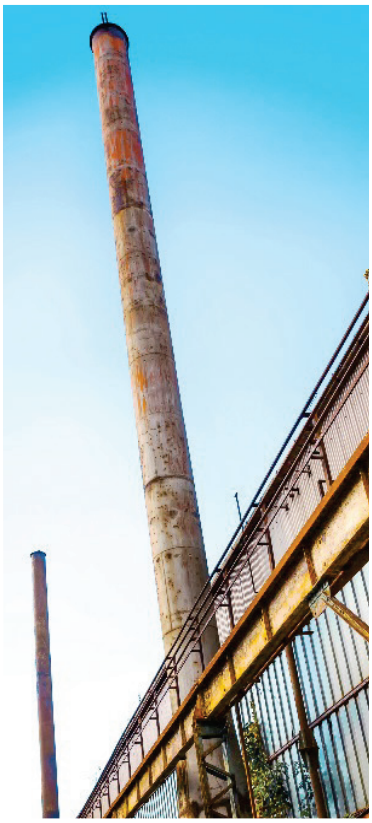
Site Characterization Technical Memorandum

Soil/Fill and Soil Gas Investigation
South Dayton Dump and Landfill Site
Moraine, Ohio



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1. Introduction

This Site Characterization Technical Memorandum (SCTM) report presents the results for the soil/fill and soil gas investigation at the South Dayton Dump and Landfill Site (Site). The Site, located on the west side of Dryden Road (also known as Springboro Pike), at 1901 through 2153 Dryden Road and 2225 East River Road in Moraine, Ohio is shown on Figure 1.1 and the Site layout is shown on Figure 1.2, including the Operable Unit (OU) 1 boundary.

GHD prepared this SCTM report on behalf of the Respondents to the Administrative Settlement Agreement and Order on Consent for Remedial Investigation/Feasibility Study for OU1 and OU2, United States Environmental Protection Agency (USEPA) Docket No. V-W-16-C-011 (Respondents).

1.1 Overview

This SCTM report provides the soil/fill investigation activities results from work conducted from October 2017 to January 2019, which includes completion of test trenches, test pits, boreholes, sample collection/laboratory analysis, and data validation/assessment. Additionally, it incorporates previous investigations results in support of the data assessment as well as results of soil gas investigation activities that were reported separately.

The soil/fill and soil gas investigations were completed in accordance with the phased approach detailed in the Remedial Investigation/Feasibility Study (RI/FS) Work Plan for Operable Units 1 and 2 (GHD, September 20, 2017) (RI/FS Work Plan), approved by USEPA September 22, 2017.

1.1.1 OU1 Soil and Fill Investigation Objectives

Section 5.2 of the RI/FS Work Plan details soil and fill investigation objectives, summarized as follows:

- Collect additional information to refine the lateral and vertical extent of the impacted soil, fill, and waste material to support the overall Site assessment and to refine the OU1 boundary.
- Characterization of the nature of impacted soil and fill (i.e., inert fill and/or waste) material at surface (0 to 2 feet below ground surface [feet BGS]) and subsurface (2 to 15 feet BGS, and >15 feet BGS if significant waste is present) to identify direct contact, inhalation, ingestion, and leaching risks for consideration in the Human Health Risk Assessment (HHRA) and Ecological Risk Assessment (ERA).
- Characterization of the soil and fill material for consideration as part of the soil gas investigation.
- Determine if chemical concentrations are from historical activities or are due to elevated background concentrations (either natural occurring or anthropogenic regional or localized contamination), as compared to background soil sample analytical results.

1.2 Report Organization

The SCTM report is organized as follows:

Section 1 is the introduction

Section 2 provides information regarding investigative activities conducted from October 2017 through January 2019

Section 3 provides descriptions of Site conditions for individual areas determined from investigations conducted to date

Section 4 presents the analytical results for soil/fill sampling conducted to date

Section 5 presents an assessment of the soil/fill analytical results including comparison to screening values

Section 6 presents information regarding soil gas investigations

Section 7 presents a summary of the investigation results and recommendations

2. Field Investigation Activities

2.1 General

The field investigation included the following:

- OU1 soil/fill investigation conducted from October 2017 through December 2018 (discussed in Section 2.2).
- Off-Site soil sampling including: Great Miami River (GMR) floodplain soil sampling adjacent to OU1 conducted in August 2018, upstream GMR floodplain soil sampling conducted in December 2018, and background soil sampling conducted in December 2018 (discussed in Section 2.3).
- Soil gas investigation conducted from January 10, 2018 to January 18, 2019 (discussed in Section 2.4).

2.2 OU1 Soil/Fill Investigation

The Phase 1A OU1 soil/fill investigation includes the following components:

- Test pits and test trenches to complete the investigation of geophysical anomalies identified in earlier investigations.
- Soil borings to investigate soil/fill conditions and depth to underlying native material and collection of surficial soil/fill samples.
- Laboratory analysis of soil/fill samples (surficial and subsurface material).

Soil/fill and soil gas probe Investigative locations (including test trenches, test pits, temporary monitoring wells/boreholes, surficial soil/fill, and landfill gas/soil gas probes) completed to date are shown on Figure 2.1. Groundwater investigative locations (including vertical aquifer sampling (VAS), temporary monitoring well/boreholes, and permanent monitoring wells) are shown on Figure 2.2. The figures also show the Exposure Unit (EU) designations with OU1.

2.2.1 Test Pits and Test Trenches

GHD completed 10 test pits and 13 test trenches to depths of up to 15 feet BGS between October 30, 2017 and March 20, 2018, to investigate geophysical anomalies and supplement the results of earlier investigations[1].

A total of 13 locations (TP-8, TP-9, TP-10, TP-11, TP-12, TP-13, TP-14, TT-24, TT-31, TT-32, TT-33, TT-39, and TT-43) were excavated to a maximum depth of 15 feet BGS, i.e., the limit of the excavator. Excavation was terminated at depths shallower than 15 feet BGS at seven locations (TP-15, TT-34, TT-35, TT-36 ,TT-37, TT-38, TT-41) due to the presence of water, one location (TT-40) due to collapse of the excavation walls and at two locations (TP-16 and TP-17) due to presence of native material. At one proposed location (TT-42) the property owner refused access thus this test trench could not be completed.

The test pit and test trench stratigraphic logs are presented in Appendix A and investigative locations are provided on Figure 2.1. Table 2.1 includes a summary of the materials encountered at each test pit and test trench location.

The investigative activities were undertaken in accordance with the procedures shown below (as outlined in the approved RI/FS Work Plan):

- *Excavate in 2-foot lifts to 15 feet minimum to native soil or the water table, where possible (as limited by the excavator, excavation wall stability and/or the presence of obstructions).*
- *Dimensions of test trenches (for geophysical anomalies) are approximately 30 feet long by 3 feet wide (i.e., the width of bucket) and dimensions for test pits (for non-geophysical anomalies) are approximately 6 feet long by 3 feet wide.*
- *Set spoil piles away from excavation, using two layers of 6-mil polyethylene sheeting for stockpiling excavated fill material.*
- *Screen recovered material using a photoionization detector (PID) and complete radiation monitoring using Victoreen meter. Complete Sudan IV field screening as required based on visual and olfactory observations.*
- *Log/ classify material using the Unified Soil Classification System (USCS). Describe any waste encountered and record intervals of fill and native soil in each location.*
- *Collect subsurface samples from 2 to 15 feet BGS at 23 test trench and test pit locations for laboratory analysis of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs),polychlorinated biphenyls (PCBs), pesticides, and inorganics (metals, mercury, and cyanide), except as noted below.*
  - *If any ash or other evidence of burnt materials is encountered, collect a sample and submit for dioxins and furans analysis.*
  - *If potential friable asbestos-containing materials (ACM) (i.e., ceiling tiles, wall board, pipe insulation, automotive brake pad manufacturing refuse, etc.) is encountered in subsurface*

[1] The geophysical investigation conducted in 2008 identified geophysical anomalies within OU1; further investigated by completion of 6 test pits and 22 test trenches from September 23, 2008 to October 8, 2008 and 6 test trenches from June 18, 2013 to June 20, 2013.

intervals (2 to 15 feet BGS), submit a sample from each distinct type of potential ACM for asbestos analysis.

- *Sample collection from the 2 to 15 feet BGS interval is based on field screening as noted below (i.e., visual observations of staining, odor, positive Sudan IV dyes test, or greater than 50 parts per million (ppm) of undifferentiated VOCs based on PID readings), or from the deepest unsaturated interval within the non-native material.*
- *Inspect test pits for indication of leachate presence. Collect samples of leachate, if present, for target compound list (TCL) VOCs, 8011 VOCs, SVOCs, herbicides, pesticides, PCBs, target analyte list (TAL) metals (total and dissolved), cyanide, chloride, sulfate, nitrite, and nitrate.*
- *Backfill excavated materials into test trench/pit in reverse order to that in which they were removed. Compact material using bucket of excavator to restore test pit to grade.*
- *Measure and record center point and end points of test trenches with global positioning system (GPS), and mark each location with stakes for surveying.*

GHD submitted 21 soil/fill samples (excluding quality assurance/quality control [QA/QC]) from 2 to 15 feet BGS for laboratory analysis of VOCs, SVOCs, PCBs, pesticides, inorganics (metals, mercury, and cyanide) and dioxins and furans. Thirteen soil samples from depths greater than 0.5 feet BGS were submitted for asbestos analysis by USEPA method EPA/600/R-93/116. Sample collection (2 to 15 feet BGS) could not be completed at two test trench locations (TT-38 and TT-41) due to water encountered during the excavations at 3 feet BGS and 4.5 feet BGS, respectively. GHD did not encounter leachate at any location; therefore, no samples were submitted for leachate analysis. Appendix B - Table 1 presents a list of samples collected from OU1 test pit and test trench locations.

Sudan IV testing was negative for non-aqueous phase liquid (NAPL) on all screened samples. Radiation was not detected in the recovered soil materials at test pit and test trench locations (i.e., Victoreen meter readings = 0 millirem per hour (mrem/hr)). Excavated materials from each test trench and test pit location were field screened for organic vapors with a PID meter. The results are shown on the logs presented in Appendix A.

Surficial soil/fill samples collected from 0 to 2 feet BGS are discussed in Section 2.2.3 and subsurface soil samples from supplemental borings are discussed in Section 2.2.1.1.

2.2.1.1 Supplemental Soil Borings

Per the RI/FS Work Plan, supplemental soil borings were completed adjacent to test pit or test trench locations where native soil could not be reached by the excavator. The specific purpose of these borings is to investigate conditions from the maximum depth of the test pit or test trench to the depth of underlying native material. GHD completed 17 supplemental soil borings at such locations, as shown in Table 2.1. Supplemental soil borings were completed with direct push technology. Soil boring locations are shown on Figure 2.1. Stratigraphic logs are presented in Appendix A.

The investigative activities were undertaken in accordance with the procedures shown below (as outlined in the RI/FS Work Plan):

- *Collect continuous core through the entire thickness of the material and up to five feet into the underlying native material.*

- *Log/ classify soil/fill material using the USCS, describing waste materials encountered and recording intervals of fill and native soil in each location.*
- *Collect subsurface samples from >15 feet BGS at supplemental borings if required to further characterize the unsaturated non-native material based on field screening results described below:*
  - *Presence of fly ash, foundry-type sands, slag like material or staining, indicative of potential metals and polynuclear aromatic hydrocarbon (PAH) contamination.*
  - *Presence of staining and/or odor characteristic of petroleum and chemicals, including pesticides and herbicides; indicative of potential SVOC, PCB, pesticides/herbicides contamination.*
  - *Presence of identifiable storage containers (e.g., drums, pails, etc.) and transformer or electrical switch gear carcasses, indicative of potential SVOCs/pesticides/herbicides, or PCB contamination, respectively.*
- *Submit subsamples samples from >15 feet BGS for laboratory analysis of VOCs, SVOCs, PCBs, pesticides, and inorganics (metals, mercury, and cyanide), except as noted below:*
  - *If any ash or other evidence of burnt materials is encountered, collect a sample and submit for dioxins and furans analysis.*
  - *If potential friable ACM (i.e., ceiling tiles, wall board, pipe insulation, automotive brake pad manufacturing refuse, etc.) is encountered in subsurface intervals (2 to 15 feet BGS), submit a sample from each distinct type of potential ACM for asbestos analysis.*
- *Screen soil material using a PID and complete radiation monitoring using Victoreen meter. Complete Sudan IV field screening as required based on visual and olfactory observations.*

GHD submitted 18 soil/fill samples (excluding QA/QC) from supplementary boreholes, including eight samples from >15 feet BGS for laboratory analysis of VOCs, SVOCs, PCBs, pesticides, and inorganics (metals, mercury, and cyanide) and 10 samples from subsurface soils between 2 to 15 feet BGS for only chromium and chromium speciation analysis. GHD submitted seven samples for asbestos analysis by USEPA method EPA/600/R-93/116, including six samples from >15 feet BGS and one sample from 2 to 15 feet BGS. Appendix B - Table 1 presents a list of samples collected from OU1 supplementary borehole locations.

Sudan IV dye tests were negative for NAPL on all screened soil borehole samples. Radiation was not detected in the soil materials at any borehole location (i.e., Victoreen meter readings = 0 mrem/hr). Soil core from supplementary boreholes were field screened for organic vapors with a PID meter. Results of the Sudan IV dye tests, radiation monitoring and organic vapor screening are shown on the logs in Appendix A.

GHD did not complete three proposed supplemental soil borings at existing test trench locations TT-34, TT-36, and TT-37 (located in EU19) because sufficient data exists from nearby soil borings to delineate the vertical extent of the waste/fill material in EU19. One additional proposed supplemental soil boring co-located with TT-24 in EU16, could not be completed as the location was in accessible due to the presence of a reclaimed asphalt pile.

2.2.2 Soil Borings

GHD completed 59 soil borings to depths of up to 44 feet BGS between December 7, 2017 and December 14, 2018. Table 2.2 presents a list of the soil borings and the borehole depths (including the supplemental borings discussed in the preceding section). Borehole stratigraphic logs are included in Appendix A. The soil borehole locations are shown on Figure 2.1. Locations of additional boreholes completed as part of the Phase 1B and 2A groundwater investigations (i.e., monitoring well, temporary monitoring well/boreholes and VAS) are shown on Figure 2.2.

The investigative activities were undertaken in accordance with the procedures shown below (as outlined in the RI/FS Work Plan):

- *Collect continuous core through the entire thickness of the material and up to five feet into the underlying native material or to a minimum depth of 15 feet BGS*. (All locations were completed with direct push technology with the exception of three locations in EU2 [BH98-18, BH99-18, and BH100-18] which were completed with a jackhammer due to accessibility restrictions in EU2.)
- *Log/ classify soil/fill material using the USCS, describing waste materials encountered and recording intervals of fill and native soil in each location.*
- *Collect at least one unsaturated soil/fill sample from the 2 to 15 feet BGS interval based on field screening indicators described below:*
  - *Visual observations of staining*
  - *Odor*
  - *Positive Sudan IV dye test*
  - *Greater than 50 ppm of organic vapors based on PID readings*
  - *Presence of fly ash, foundry type sands, slag like material or staining, indicative of potential metals and PAH contamination.*
  - *Presence of staining and/or odor characteristic of petroleum and chemicals, including pesticides and herbicides; indicative of potential SVOC, PCB, pesticides/herbicides contamination.*
  - *Presence of identifiable storage containers (e.g., drums, pails, etc.) and transformer or electrical switch gear carcasses, indicative of potential SVOCs/pesticides/herbicides, or PCB contamination, respectively.*
- *Submit soil/fill samples (2 to 15 feet BGS intervals) from borehole locations for analysis of VOCs, SVOCs, PCBs, pesticides, and inorganics (metals, mercury, and cyanide). Additional analysis for chromium speciation, asbestos, and dioxins and furans will be conducted as described below:*
  - *Samples for chromium speciation (Cr3+ and Cr6+) will be collected and analyzed dependent on the results of the total chromium analysis. Any sample that contains total chromium at a concentration greater than USEPA Residential Soil Regional Screening Level (RSL) of 0.3 milligrams per kilogram (mg/kg) will also be analyzed for chromium speciation.*
  - *Samples for asbestos determination in subsurface material (deeper than 6 inches) will be collected and visually inspected in the field to determine whether friable material (easily crushed by hand pressure) is present. Samples of bulk soil/waste material and/or friable*

materials with no binder interference will be submitted for analysis by polarized light microscopy (PLM) using USEPA method EPA/600/R 93/116.

  - *Samples for dioxins and furans analysis will be collected for locations within designated areas most likely to exhibit the presence of burned materials and ash as described in RI/FS Work Plan Table 5.7b. Specifically, this includes EU16, EU18, EU19, and the western portions of EU12 through EU15.*

- *Screen soil/fill material using a PID and complete radiation monitoring using Victoreen meter. Complete Sudan IV field screening as required based on visual and olfactory observations.*

GHD submitted 62 subsurface (2 to 15 feet BGS) soil/fill samples (excluding QA/QC) for laboratory analysis of VOCs, SVOCs, PCBs, pesticides, and inorganics (metals, mercury, chromium speciation, and cyanide). An additional 18 subsurface soil/fill samples were submitted for dioxins and furans analysis. As required by the RI/FS Work Plan, sample selection for subsurface material included visual inspection to identify the presence of potential ACM. None of these materials were specifically observed during field investigations. GHD submitted 57 subsurface soil samples for asbestos analysis by USEPA method EPA/600/R-93/116, one of which was collected at TT-37 (from 4 to 6 feet BGS), where brake pad components were identified. Sample intervals for the remaining 56 samples were determined based on field screening indicators described above. Appendix B - Table 1 presents a list of samples collected from OU1 boreholes locations.

Sudan IV testing was positive for NAPL for six screened soil borehole samples, two from borehole BH141-18 (24 to 25 feet BGS and 28 to 30 feet BGS intervals), one from borehole BH137-18 (30 to 32 feet BGS), one from MW-235 borehole (32-33 feet BGS), one from VAS-33 borehole (24 to 25 feet BGS), and one from VAS-35 borehole (55-56 feet BGS). Radiation was not detected in the soil materials at any borehole location (i.e., Victoreen meter readings = 0 mrem/hr). Soil core from borehole locations were field screened for organic vapors with a PID meter. Results of the Sudan IV dye tests, radiation monitoring and organic vapor screening are presented in the stratigraphic logs shown in Appendix A.

2.2.3 Surficial Soil/Fill Sampling

GHD collected surficial soil/fill samples from 129 locations between October 30, 2017 and December 20, 2018. The surficial soil/fill samples were either co-located with test pits/ test trenches or soil borings; or were collected at separate locations depending on the sample parameters. Appendix A - Table 1a includes material description for each surficial soil/fill sample location. Appendix B - Table 1 presents a list of samples collected from OU1 surficial soil/fill sample locations. The surficial soil/fill sample locations are shown on Figure 2.1.

The investigative activities were undertaken in accordance with the procedures shown below (as outlined in the RI/FS Work Plan):

- *Collect surficial soil/fill (0 to 2 feet BGS) samples by hand auger, excavator (co-located with test pit and test trench locations), and by direct push technology. Surficial soil/fill samples exclude all overlaying non-soil materials including asphalt, concrete, gravel road base, and grass/topsoil.*

- *Log/classify soil/fill material using the USCS, describing waste materials encountered and recording intervals of fill and native soil in each location.*

- *Screen soil/fill material using a PID and complete radiation monitoring using Victoreen meter. Complete Sudan IV field screening as required based on visual and olfactory observations.*
- *Submit surficial soil/fill samples (0 to 2 feet BGS) from each location for analysis of VOCs, SVOCs, PCBs, pesticides, and inorganics (metals, mercury, and cyanide). Additional analysis for herbicides, chromium speciation, asbestos, fine fraction lead, and dioxins and furans will be conducted as described below:*
  - *Samples of surface material (0 to 2 feet BGS) from OU1 will be collected and analyzed for TCL herbicides. This will include up to 15 sample locations from each of the northern, central, and southern areas of OU1.* (The proposed sample locations were to include areas of stressed vegetation and bare ground, based on field observations prior to sampling. Due to the absence of such areas, the sample locations were selected to provide spatial representation.)
  - *Samples for chromium speciation (Cr3+Cr6+) will be collected and analyzed dependent on the results of the total chromium analysis. Any sample that contains total chromium at a concentration greater than USEPA Residential Soil RSL of 0.3 mg/kg will also be analyzed for chromium speciation.*
  - *Samples for asbestos determination in surface material (0 to 6 inches) will be collected from each exposure unit and analyzed by the modified CARB 435 method for screening purposes per OSWER Directive 9200.0-68, Framework for Investigating Asbestos Contaminated Superfund Sites, Appendix C.*
  - *Samples for fine fraction (<150 micrometer [µm]) lead will be collected and analyzed dependent on the results of the total lead analysis. Initially, approximately 20% of the surface material (0 to 2 feet BGS) samples analyzed for total lead will also be analyzed for lead fractionation (fine and coarse fractions). The sample selection will consider spatial representation of the EUs and the range of detected total lead concentrations.*
  - *Samples for dioxins and furans analysis will be collected and analyzed for locations within designated areas most likely to exhibit the presence of burned materials and ash as described in Table 5.7b in the RI/FS Work Plan. Specifically, this includes EU16, EU18, EU19, and the western portions of EU12 through EU15.*

GHD collected surficial soil/fill samples from 42 locations by hand auger, 15 locations from test pits/ test trenches, and 72 locations by direct push technology. GHD submitted 118 surficial (0 to 2 feet BGS) soil/fill samples (excluding QA/QC) for laboratory analysis of VOCs, SVOCs, PCBs, pesticides, and inorganics (metals, mercury, chromium speciation, and cyanide). GHD submitted 30 of the 118 samples for fractionated lead analysis, and six of the 118 samples for dioxins and furans analysis. In addition, GHD submitted 25 surficial soil/fill samples (0 to 2 feet BGS) for herbicide analysis, and 40 surficial soil/fill samples (0 to 6 inches BGS) were submitted for asbestos analysis by the modified CARB 435 method for screening purposes per OSWER Directive 9200.0-68, Framework for Investigating Asbestos Contaminated Superfund Sites, Appendix C. Appendix B - Table 1 presents a list of samples collected from OU1 surficial soil/fill sample locations.

Radiation was not detected in the soil materials at any surficial sample location (i.e., Victoreen meter readings = 0 mrem/hr). Soil material from each location were field screened for organic vapors with a PID meter. Results of the radiation monitoring and organic vapor screening are shown in Appendix A - Table 1a.

2.3 Off-Site Soil Sampling

2.3.1 GMR Floodplain Soil Sampling

GHD collected floodplain soil samples adjacent to OU1 as part of the Phase 1A GMR floodplain investigation and upstream of the Site as part of the Phase 1B off-Site background investigation (as shown on Figure 2.3a). GHD collected 30 surficial soil samples (including QA/QC) from 12 locations (SS-164 through SS-175) adjacent to OU1 (shown on Figure 2.3b) between August 6 and August 8, 2018. GHD collected 21 surficial soil samples (including QA/QC) from eight locations (SS-201 through SS-208) upstream of the Site (shown on Figure 2.3c) on December 10, 2018. Appendix A - Table 1b presents material descriptions for each sample location. Appendix B - Table 2 presents a list of samples collected from GMR floodplain soil sample locations.

A field inspection of the GMR floodplain was completed by GHD on July 12, 2018, with USEPA contractor (Jacobs), to select sample locations that were in topographic low-lying drainage pathways where runoff from the elevated OU1 area could have preferentially deposited material.

The investigative activities were undertaken in accordance with the procedures shown below (as outlined in the RI/FS Work Plan):

- *Collect soil samples (from upstream locations and locations adjacent to the Site) with a hand auger and log soil stratigraphy using the USCS.*
- *Screen recovered material using a PID and complete radiation monitoring using Victoreen meter.*
- *Collect subsurface samples from two intervals (0 to 0.5 feet BGS and 0.5 to 2 feet BGS) at 12 locations in the GMR floodplain adjacent to the Site and 8 locations in the GMR floodplain upstream from the Site for laboratory analysis of VOCs, SVOCs, PCBs, pesticides, herbicides, metals including mercury, and cyanide.* (Soil samples could not be collected from one proposed location within the GMR floodplain adjacent to the Site (SS-176), due to the presence of standing water.)

In most cases, samples were collected from native soils and all topsoil/grass materials present at each location were excluded from the sample collection. One location adjacent to the Site (SS-165) was not completed to the proposed depth due to refusal at 1.2 feet BGS. Waste material was not identified at any sample location, with the exception of a single location adjacent to the Site (SS-169), where a piece of “aluminum bag” was found at 1.83 feet BGS. Samples were not collected at one proposed location (SS-176) due to presence of standing water as noted above.

Organic vapors (PID readings > 0 ppm) and radiation (i.e., Victoreen meter readings >0 mrem/hr) were not detected in the recovered soil material at any floodplain sample location (as shown in Appendix A - Table 1b).

2.3.2 Background Soil Sampling

GHD completed background soil sampling at Ora Everett Park located approximately 1.5 miles south of the Site (as shown on Figure 2.4a). GHD collected 10 surficial soil samples (including QA/QC) from eight locations within Ora Everett Park (shown on Figure 2.4b) on December 7, 2018. Appendix A - Table 1c presents material description for each sample location. Appendix B - Table 2 presents a list of samples collected at the background soil sample locations.

The investigative activities were undertaken in accordance with the procedures shown below (as outlined in the RI/FS Work Plan):

- *Collect soil samples with a hand auger and log soil stratigraphy using the USCS*
- *Screen recovered material using a PID and complete radiation monitoring using Victoreen meter*
- *Collect subsurface samples from two intervals (0 to 0.5 feet BGS and 0.5 to 2 feet BGS) at eight locations in Ora Everett Park for laboratory analysis of PAHs and metals, including mercury.*

Samples were collected from soil material and all topsoil/grass present at each location was excluded from sample collection. Waste material was not identified at any sample location within Ora Everett Park.

Organic vapors (PID readings >0 ppm) and radiation (i.e., Victoreen meter readings >0 mrem/hr) were not detected in the recovered soil material at any Ora Everettt Park sample location (as shown in Appendix A - Table 1c).

2.4 Soil/Fill Sample Laboratory Analysis and Data Validation

Soil/fill samples were collected and submitted for laboratory analysis as described in the preceding sections. The lists of samples submitted for laboratory analysis are presented in Appendix B – Tables 1 and 2, for OU1 soil/fill samples and outside OU1 soil samples, respectively. Per the RI/FS Work Plan the analytical laboratory deliverables were reviewed by GHD for data validation purposes. GHD's data validation reports for soil/fill samples are included in Appendix B. The results of GHD's assessment were used to identify data qualifiers for inclusion in the analytical database, as presented in the data tables within this report.

2.5 Soil Gas Investigation

GHD conducted soil gas field investigation activities from January 10, 2018 to January 15, 2019.

A total of 11 new soil gas probe installations were completed and three soil gas probes were re-installed (to depths greater than 5 feet BGS) from January 2018 to January 2019. In addition, one gas probe was re-installed since the original gas probe could not be found and one other was re-installed since the original probe could not be monitored. The soil gas probes (new probes and replacement probes) are listed in Table 2.3 and shown on Figure 2.5. One proposed soil gas probe (GP36-18) was not completed due to property access issues.

GHD completed three rounds of field parameter monitoring in 2018 from all accessible soil gas probes installed by GHD, as well as probes installed prior to 2018 including USEPA multi-level soil gas probes at six locations (GP-1, GP-3 through GP-7), as shown on Figure 2.5. Field parameter monitoring included organic vapors, carbon dioxide, oxygen, combustible gas (i.e., methane and other explosive gases), and hydrogen sulfide. Three soil gas probes that were not found include GP07-09; GP17-09; and GP18-09. The monitoring excluded USEPA soil gas probe GP-2, located adjacent to the Dayton Power and Light (DP&L) facility, based on the findings and conclusions of monitoring conducted through 2016.

GHD completed soil gas sampling from August 14 to August 24, 2018 from 32 GHD soil gas probes in accordance with RI/FS Work Plan procedures. GHD submitted 38 samples (including one trip

blank, one ambient air sample, and four field duplicates), to TestAmerica Knoxville for VOC (TO-15) analysis. GHD did not collect a sample from one GHD soil gas probe (GP08-09) due to insufficient gas flow. Section 6 provides details regarding the investigative procedures and the results of the soil gas investigation.

2.6 Summary of Remaining Activities

A summary of investigative activities, outlined in the RI/FS Work Plan that remain to be completed or could not be completed or altered are summarized in the following sections.

2.6.1 Soil/Fill Investigation

- One OU1 test trench location (TT-42) located within EU15 could not be completed due to property owner's refusal to allow access. GHD proposes to delete this from the investigation.
- Three proposed supplemental soil borings at existing test trench locations TT-34, TT-36, and TT-37 (located in EU19) were not completed because sufficient data exists from nearby locations that will be used to delineate the vertical extent of the waste/fill material in EU19. GHD proposes to delete these from the investigation.
- One additional proposed supplemental soil boring co-located with TT-24 in EU16, could not be completed as the location was not accessible due to the presence of a large reclaimed asphalt pile and nearby equipment and vehicle operations. Existing locations to the north of TT-24 will be used to delineate the vertical extent of soil/fill material in EU16.
- Some proposed surficial soil/fill locations were not completed due to ground conditions (e.g., inability to advance sampling device due to presence of large aggregate in roadways) and/or accessibility issues. These locations include: EU2 (three surficial soil/fill samples); EU9 (two surficial soil/fill samples); and EU14 (one surficial soil/fill sample location). GHD proposes to delete these from the investigation on the basis that other samples collected from within these EUs provide adequate representation.
- The number of surficial soil/fill sample locations in EU3 and EU4 was modified based on GHD and agency field meeting discussions (on June 6, 2018 and September 19/20, 2018) regarding the possibility of combining these into one EU (based on property ownership and land use). A total of four proposed surficial soil/fill sample locations were not completed (due to consideration of EU3 and EU4 as a single exposure unit) and have been deleted from the investigation.
- The number of surficial soil/fill sample locations in EU5, EU6, EU7, and EU8 was modified based on GHD and agency field meeting discussions (on June 6, 2018 and September 19/20, 2018). It was agreed during the meeting to combine these areas into one EU (based on property ownership and land use). A total of 25 proposed surficial soil/fill sample locations and three boreholes were not completed and have been deleted from the investigation.
- Soil samples could not be collected from one proposed location within the GMR floodplain adjacent to the Site (SS-176), due to the presence of standing water. GHD proposes to re-assess this sampling location as discussed in Section 5.2.
- Thirteen shallow test pits in the GMR floodplain adjacent to the OU1 boundary were not completed due to access/ work area restrictions (per Miami Conservancy District [MCD]) and the

presence of underground utilities (i.e., underground natural gas pipeline). GHD proposes to delete these from the investigation.

- Soil samples were not collected from a proposed background soil sampling location (New Greencastle Cemetery) since contact with the owner could not be established to request access. Discussions are ongoing with an alternate location owned by the City of Dayton (Madden Golf Course) but have been unsuccessful to date.
- Soil samples were not collected from a proposed background soil sampling location (Carillon Park) since GHD was informed by the property manager (in November 2018) that the location contains imported fill material and hence may not be representative of background soil conditions.

2.6.2 Soil Gas Investigation

- One proposed soil gas probe (GP36-18) located along East River Road could not be completed after numerous failed attempts to contact the property owner to arrange Site access. Possible alternate locations are under review.
- Re-installation of one soil gas probe at existing location (GP03-09) could not be completed due the shallow water table (~6 feet BGS). GHD proposes to retain GP03-09 since replacement to a greater depth is not possible.
- Based on the soil gas sampling results, a second round of sampling will be completed at a later date for TO-15 VOC analysis, and at a minimum will include the soil gas probes installed during Phase I.

3. Site Conditions

This section presents information regarding Site conditions compiled from RI soil/fill investigation activities conducted to date, i.e., 2008 to present. For investigation purposes, the Site is divided into three areas (Southern Area, Central Area, and Northern Area) as shown on Figure 1.2. The Site areas are divided further into EUs based on property ownership boundaries, current and reasonably foreseeable future activities and land use related to potential human exposure. The following subsections provide details of land use and ground conditions (i.e., stratigraphy) by area and by individual EU. The EU boundaries (and investigative locations) are shown on Figure 2.1. The individual EUs (including aerial imagery and sample locations) are illustrated on Figure 3.1 through Figure 3.16.

3.1 Southern Area

The Southern Area includes the Quarry Pond Parcels (Parcel 5178 and a portion of Parcel 3275), Jim City Parcels (Parcels 3753 and 4423), and [redacted] non-responsive, shown on Figure 1.2. The EUs within the Southern Area include:

- EU1 located within the unsubmerged northeastern portion of Quarry Pond Parcel 5178.
- EU2 located on the northwest side of the Quarry Pond, which includes a portion of Parcel 3275 within the OU1 boundary and the western unsubmerged portion of Parcel 5178.

- EU3 and EU4 located adjacent to the east side of the Quarry Pond and EU1. EU3 and EU4 primarily include Jim City Parcels (3753 and 4423) and portions of adjacent Parcel 5178, used for active business operations of Jim City Salvage.
- EU5 through EU8 located in the northeast part of the Southern Area. EU5 through EU8 include [redacted] and a portion of adjacent Parcel 5178, used for active business operations of [redacted]

Descriptions of the land use, field investigations, and observations of the soil/fill conditions for each EU within the Southern Area are presented in the following subsections.

3.1.1 EU1

EU1 comprises the undeveloped northeastern portion of Quarry Pond Parcel 5178, is 3.06 acres in size, consisting of open ground with vegetation. The southern and western limits of EU1 form the shoreline of the Quarry Pond. The ground elevation rises to the north and east toward adjoining OU1 areas; therefore, EU1 is occasionally partly submerged depending on the water level in the Quarry Pond.

Per the RI/FS Work Plan, the proposed investigation included two soil borings to a depth of 15 feet BGS; two deep soil borings (>15 feet BGS); one test trench/pit; and nine surficial soil/fill samples. Sampling locations completed by GHD include five soil borings to depths of 15 feet BGS (BH101-17 to BH104-17, BH158-17); one test trench (TT-41); and 10 surficial soil/fill samples (0 to 2 feet BGS) (SS-38 to SS-45, SS-122, and SS-124). Soil/fill and soil gas sampling locations completed to date in EU1 are shown on Figure 3.1.

Previous investigations in EU1 included three test trenches (TT-14, TT-16, and TT-16A) to investigate geophysical anomalies. Groundwater investigative locations in this area include VAS-19 and groundwater monitoring wells (MW-209, MW-209A, and MW-212), presented on Figure 2.2.

Observations:

A fill layer is present across EU1 increasing slightly in thickness moving from west to east. The fill layer is present to approximate depths ranging from 7.3 feet BGS to 13.3 feet BGS, at BH101-17, and BH158-17, respectively. It is noted that fill was observed at VAS-19 to a depth of 25 feet BGS, with the presence of a 6-inch layer of roofing shingles at 16.5 feet BGS. Below the fill layer, native sand or silty sand material is present.

Waste material was generally observed in EU1 investigative locations to depths ranging from 5 feet BGS to 9.5 feet BGS, with the exception of roofing shingles observed at 16.5 feet BGS in VAS-19. Observed waste material at EU1 investigative locations included foundry-type sand, concrete with rebar, metal rods, bricks, clay drainage tile, slag, and wood fragments.

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[2] The Respondents initially divided [redacted] into multiple exposure units (EU5, EU6, EU7, and EU8). Based on the property boundary and current understanding of land use, it is more appropriate to consider these as a combined exposure unit. A portion of Parcel 5178 is fenced off and appears to be accessible only from EU7; therefore, EU7 encompasses portions of [redacted] and the adjacent portion of Parcel 5178. During a Site visit held on September 19 to 20, 2018, GHD and USEPA verbally discussed and agreed that EU5 through EU8 will be combined and considered as a single exposure unit since it is essentially one common area. This agreement recognizes that the portion at the back of EU7 is not owned by [redacted] and is contiguous with EU1.

3.1.2 EU2

EU2 comprises a portion of Parcel 3275 and the western unsubmerged portion of Parcel 5178, with a total size of approximately 0.5 acres. EU2 forms part of an embankment that separates the Quarry Pond from the floodplain area to the west.

In the RI/FS Work Plan, the proposed investigation included one soil boring to a depth of 15 feet BGS; two deep soil borings (>15 feet BGS); and eight surficial soil/fill samples. Sampling locations completed by GHD are discussed below.

The embankment is steep, heavily vegetated, and is not easily accessible. There is a narrow level area on top, which was cleared of vegetation to allow access, however the conditions prevented use of a direct-push drill rig. In an email dated June 28, 2018, GHD proposed to use portable means of drilling (i.e., jackhammer) the three soil borings in EU2, due to safety and accessibility concerns. GHD attempted to drill the three boreholes to 15 feet BGS using the jackhammer method, however, refusal occurred at depths ranging from 5.5 to 9.5 feet BGS. Sampling locations completed in EU2 by GHD include three soil borings (BH98-18 to BH100-18), and seven surficial soil/fill samples (SS-14 to SS-18, SS-148, and SS-152). Soil/fill and soil gas sampling locations completed to date in EU2 are shown on Figure 3.2.

Observations:

The embankment stratigraphy consists of silt topsoil to depths less than 0.45 feet BGS. Beneath the topsoil layer, predominantly fine-grained material (clay, trace silt, little gravel) is present to the borehole refusal depths. Trace sand and gray staining was observed at 4.7 feet BGS and 5.5 feet BGS in BH100-18. The material encountered below the topsoil was determined to be cohesive and very dense, consistent with a compacted engineered fill material. No waste material was observed.

3.1.3 EU3

EU3 comprises Parcel 3753 and the adjacent, unsubmerged portion of Parcel 5178, with a total size of 2.94 acres. EU3 is utilized for automobile scrap and salvage operations, and consists of open ground with gravel cover and/or vegetation. There are no buildings on EU3; however, scrap vehicles and trailers are present across the property.

In the RI/FS Work Plan, the proposed investigation included three soil borings to depths of 15 feet BGS; three deep soil borings (>15 feet BGS); and eight surficial soil/fill samples within EU3. Sampling locations completed by GHD include six deep soil borings (BH152-18 to BH157-18), and six surficial soil/fill samples (SS-146, SS-147, SS-149 to SS-151, and SS-153). In addition, GHD installed soil gas probe GP07-18, as GP07-09 was not found. Soil/fill and soil gas sampling locations completed to date in EU3 are shown on Figure 3.3.

Previous investigations in EU3 include one test trench (TT-18) to investigate geophysical anomalies; and soil gas probe (GP07-09).

Observations:

A fill layer is present across EU3 to approximate depths ranging from 4.2 feet BGS (GP07-18) to 18 feet BGS (BH155-18). Below the fill layer, native sand/gravel material is present. Clay till was observed at an approximate depth of 18 to 20 feet BGS in boreholes BH153-18 to BH155-18.

Waste material was observed at a limited number of EU3 investigative locations. Railroad ties, bricks, scrap metal, and concrete were observed in TT-18 at depths less than 10 feet BGS. Red clay brick fragments or crushed red clay brick observed in BH154-18 and BH157-18 at depths ranging from 12 to 14 feet BGS. Odors were noted during investigation of GP07-18 (4.2 to 7.4 feet BGS) and TT-18 (3 to 10 feet BGS).

3.1.4 EU4

EU4 comprises Parcel 4423 and the adjacent unsubmerged portion of Parcel 5178, with a total size of 3.64 acres. EU4 is utilized for automobile scrap and salvage operations, and consists of open ground with gravel cover and/or vegetation. There are no buildings on EU4; however, scrap vehicles and material are present across the property.

In the RI/FS Work Plan, the proposed investigation included three soil borings to depths of 15 feet BGS; three deep soil borings (>15 feet BGS); and eight surficial soil/fill samples within EU4.

Sampling locations completed by GHD include one soil boring (BH149-18); five deep soil borings (BH146-18 to BH148-18, BH150-18, and BH151-18); and six surficial soil/fill samples (SS-138 to SS-140, SS-142, SS-144, SS-145). In addition, GHD installed soil gas probe GP08-19, as field parameter monitoring of GP08-09 could not be completed. Soil/fill and soil gas sampling locations completed to date in EU4 are shown on Figure 3.4.

Previous investigations in EU4 include one test trench (TT-17) to investigate geophysical anomalies; and one soil gas probe (GP08-09). Groundwater investigative locations in this area include VAS-22 and VAS-22b, presented on Figure 2.2.

Observations:

A fill layer is present across EU4 to approximate depths ranging from 7.9 feet BGS (BH147-18) to 40 feet BGS (BH146-18). Below the fill layer, native silty gravel or sand and gravel is present.

Waste material was observed at some EU4 investigative locations, consisting of red clay brick and concrete fragments. Iron staining was noted in GH08-19, GP08-09, and BH147-18 at depths of 11 feet BGS, 18 to 20 feet BGS, and 25 feet BGS, respectively.

3.1.5 EU5 to EU8

EU5 through EU8 comprise [redacted] and a portion of the adjoining property (Parcel 5178) with a total size of 2.65 acres. [redacted] is 2.0 acres in size, and includes five buildings (Buildings 18 to 22), shown on Figure 2.5. Four of the buildings (19 to 22) are single-story structures used for equipment storage and maintenance operations. The remaining [redacted] is a residential trailer. [redacted] ground cover includes grass, vegetation and gravel.

In the RI/FS Work Plan, the proposed investigation included four soil borings (to a depth of 15 feet BGS), six deep soil borings (greater than 15 feet BGS), and 35 surficial soil/fill samples. The proposed number for samples was modified based on Site inspection by GHD and USEPA (September 2018 Site Visit), Sampling locations completed by GHD include nine deep soil borings (BH122-18, BH125-18 to BH130-18, BH132-18, and BH133-18) and 12 surface soil/fill samples (SS-98 to SS-104, SS-109, SS-112, SS-116, SS-120, SS-123). Soil/fill and soil gas sampling locations completed to date in EU5 to EU8 are shown on Figure 3.5.

Previous investigations in EU5 to EU8 include two soil gas probes (GP09-09 and GP10-09). Groundwater investigative locations in this area include four temporary monitoring wells (BH22-13 to BH25-13), presented on Figure 2.2.

Observations:

A fill layer is present across EU5 to EU8 to approximate depths ranging from 8.3 feet BGS (BH122-18) to greater than 44 feet BGS (BH128-18). The depth to native material was not determined at BH128-18 due to refusal. Similarly, the depth to native material was not determined at BH126-18 and BH129-18, located in Parcel 5178. Below the fill layer, where penetrated, native sand and gravel is present.

Waste material observed at EU5 to EU8 investigative locations includes wood pieces, red clay brick fragments, concrete pieces, foundry-type sand, and cinder.

3.2 Central Area

The Central Area includes the following: a portion of Parcel 5177 and portions of the adjoining GMR floodplain parcels; the unnumbered parcel at the Site entrance; and the Dryden Road businesses located on Parcels 5173, 5174, 5175, and 5176, shown on Figure 1.2. The EUs within the Central Area include:

- EU9 located within an unnumbered property parcel the southeast boundary of the Central Area adjoining Dryden Road.
- EU10 (Parcel 5176)[3], EU11 (Parcel 5175)[4], EU12 (Parcel 5174), and EU13 (Parcel 5173), all of which are located on the east side of the Central Area, adjoining Dryden Road. Each of these EUs are used for active business operations by tenants of the property owner, Dryden Road Investments LLC.
- EU18 and EU19 includes the undeveloped portion of Parcel 5177, owned by the South Dayton Landfill Environmental Remediation Trust. EU18 includes two low-lying areas within EU19.

Descriptions of the land use, field investigations, and observations of the soil/fill conditions for each EU within the Central Area are presented in the following subsections.

3.2.1 EU9

EU9 comprises the unnumbered parcel extending to the west from the Site entrance, is 1.09 acres in size, and includes roadway and open ground. There are no buildings located on EU9.

[3] In the RI/FS Work Plan, the limits of EU10 included the eastern portion of Parcel 5176 based on the presence of fencing along the western side of the active business area. During the September 2018 Site visit, GHD and USEPA verbally discussed and agreed that the limits of EU10 would be revised to include the entire limits of Parcel 5176, rather than be limited to the fenced portion. This revision is more consistent with GHD's understanding of current tenant rights.

[4] In the RI/FS Work Plan, the limits of EU11 included the eastern portion of Parcel 5175 based on the presence of fencing along the western side of the active business area. During the September 2018 Site visit, GHD and USEPA verbally discussed and agreed that the limits of EU11 would be revised to include the entire limits of Parcel 5175, rather than be limited to the fenced portion. This revision is more consistent with GHD's understanding of current tenant rights.

In the RI/FS Work Plan, the proposed investigation included two soil borings to a depth of 15 feet BGS; one test trench/pit; and eight surficial soil/fill sample locations within EU9. Sampling locations completed by GHD include one soil boring to a depth of 15 feet BGS (BH120-18), and one deep soil boring (BH121-18); one test pit (TP-17); and seven surficial soil/fill samples (SS-86 to SS-93). Soil/fill and soil gas probe sampling locations completed to date in EU9 are shown on Figure 3.6.

Previous investigations in EU9 included one test trench (TT-13) to investigate geophysical anomalies and one soil gas probe (GP11-09). Groundwater investigative locations in this area include 12 temporary monitoring wells (BH11-13 to BH21-13), groundwater monitoring wells (MW-210, MW-210A, MW-210B), and VAS (VAS-17, VAS-21, VAS-21B), presented on Figure 2.2.

Observations:

A fill layer is present across EU9 to approximate depths ranging from 9 to 12 feet BGS. Below the fill layer, native sand and gravel is present.

Waste material observed at EU9 investigative locations included foundry-type sand (to depths less than 4 feet BGS at BH121-18 and GP34-18), glass pieces (from approximately 4 to 5 feet BGS at BH12-13 and BH121-18), pieces of asphalt and bricks (to 2 feet BGS at VAS-21, VAS-21B, MW-210A&B, and 3.5 feet BGS at TT-13 and TP-17). Additional waste observed in only TP-17, the western-most investigative location on EU9 and adjacent to Parcel 5177 that was used for landfilling, included metal wiring, scrap metal, concrete, slag, and D-cell batteries, to an approximate depth of 9 feet BGS.

3.2.2 EU10

EU10 comprises Parcel 5176, is 1.13 acres in size, and includes open ground with gravel-covered surfaces and/or vegetation. There are temporary structures located on EU10, but no permanent building structures exist. The east side of EU10 fronts onto Dryden Road allowing road access for business operations. The property is bisected with fencing.

In the RI/FS Work Plan, the proposed investigation included four soil borings and eight surficial soil/fill sample locations within EU10. Sampling locations completed by GHD include four soil borings (BH97-17, BH117-18 to BH119-18) and nine surficial soil/fill sample locations (SS-78 to SS-85, SS-32). The number of sample locations was adjusted due to the change of the EU10 limits noted above. Soil/fill and soil gas probe sampling locations completed to date in EU10 are shown on Figure 3.7.

Previous investigations in EU10 included four temporary monitoring wells (BH07-13 to BH10-13), presented on Figure 2.2.

Observations:

A fill layer is present across EU10 increasing in thickness moving from east to west, to approximate depths ranging from approximately 10 feet BGS to 15 feet BGS (BH97-17). Below the fill layer, native sand and gravel or clayey gravel is present.

Waste material observed at EU10 investigative locations includes slag, foundry-type sand, concrete debris, crushed quartz, red clay brick fragments, and glass pieces.

3.2.3 EU11

EU11 comprises Parcel 5175 and is 3.05 acres in size. One building (Building 17, shown on Figure 2.5) is present on EU11, at 2075 Dryden Road, which is used for commercial operations. Potential VI at Building 17 is being addressed using a sub-slab depressurization system (SSDS) installed by the Respondents. The east side of EU11 fronts onto Dryden Road allowing road access for business operations and is paved. The ground surrounding Building 17 is gravel-covered. The remaining EU11 property is open ground with vegetation. The property is bisected with fencing.

In the RI/FS Work Plan, the proposed investigation included three soil borings and eight surficial soil/fill sample locations within EU11. Sampling locations completed by GHD include four soil borings (BH175-17, BH114-18 to BH116-18), one test pit (TP-13), and nine surficial soil/fill samples (SS-25, SS-70 to SS-77). The number of sample locations was adjusted due to the change of the EU11 limits noted above. Soil/fill and soil gas sampling locations completed to date in EU11 are shown on Figure 3.8.

Previous investigations in EU11 included two test trenches (TT-11 and TT-12) to investigate geophysical anomalies, and four soil gas probes (GP12-09, GP23-13, GP24A-13, and GP24B-13). Groundwater investigative locations in this area include VAS (VAS-35) and four temporary monitoring wells (BH04-13 to BH06-13, and BH89-13), presented on Figure 2.2.

Observations:

A fill layer is present across EU11 increasing in thickness moving from east to west, to approximate depths ranging from 5 feet BGS to 22 feet BGS. Below the fill layer, native sand, gravel/sand, or clay material is present. Odors were noted at BH03-13 (40.7 to 42.1 feet BGS), BH05-13 (52 to 60 feet BGS).

Waste material observed at EU11 investigative locations includes orange/red clay dust, slag-like material, granite fragments, foundry-type sand and/or staining, rubber, wood pieces, brick and concrete debris, metal debris, aluminum siding, partial drum top. The amount and types of waste materials was greatest in the western-most investigative locations (e.g., TT-11, TP-13, and BH175-17).

3.2.4 EU12

EU12 comprises Parcel 5174 and is 1.06 acres in size. One building (Building 16, shown on Figure 2.5) is present on EU12, at 2045 Dryden Road. The east side of Parcel 5174 front onto Dryden Road, allowing road access for business operations. The ground north and east of Building 16 is paved, and remaining areas of EU12 are open ground with vegetation.

In the RI/FS Work Plan, the proposed investigation included three soil borings and eight surficial soil/fill sample locations within EU12. Sampling locations completed by GHD include three soil borings (BH111-18 to BH113-18) and nine surficial soil/fill sample locations (SS-63 to SS-69, and SS-89) within EU12. Soil/fill and soil gas probe sampling locations completed to date in EU12 are shown on Figure 3.9.

Previous investigations in EU12 included one test trench (TT-10) to investigate geophysical anomalies, and one soil gas probe (GP13-09). Groundwater investigative locations in this area

include three temporary monitoring wells (BH02-13, BH83-13, and BH84-13), one groundwater monitoring well (MW-202), and VAS (VAS-15, VAS-15B), presented on Figure 2.2.

Observations:

A fill layer is present across EU12, increasing slightly in thickness moving from east to west. The fill layer is present in the eastern portion to an approximate depth range of 8 to 10 feet BGS, increasing to approximate depths of 20 feet BGS at the western boundary of EU12. Below the fill layer, native sand or sand-gravel material is present.

The amount and types of waste material observed in EU12 was greater in the western investigative locations compared to the eastern investigative locations. Glass was observed in the 0 to 5 feet BGS interval at in MW-202 and BH111-18. Wood fragments were observed at depths of 14 to 16 feet BGS in GP13-09 and BH112-17, respectively. Foundry-type sand was observed in the central to western portion of EU12, present at increasing depths of approximately 9 feet BGS to 25 feet BGS moving from east to west (BH111-18, BH113-18, TT-10, GP13-09, and BH112-17). Also, at TT-10, concrete cores, concrete blocks, and bricks were observed at a depth of 16 feet BGS.

3.2.5 EU13

EU13 comprises Parcel 5173 and is 1.44 acres in size. This includes one building (Building 15, shown on Figure 2.5) at 2031 Dryden Road, used for commercial purposes. Potential VI at Building 15 is being addressed using a sub-slab depressurization system (SSDS) installed by the Respondents. The area around the building includes paved surfaces, and open ground with gravel cover and/or vegetation. The east side of Parcel 5173 fronts onto Dryden Road, allowing road access for business operations.

In the RI/FS Work Plan, the proposed investigation included four soil borings, one test trench/pit, and eight surficial soil/fill sample locations within EU13. Sampling locations completed by GHD include five soil borings (BH159-17, BH107-18 to BH110-18), one test trench (TT-40), and nine surficial soil/fill sample locations within EU13 (SS-54 to SS-61, and SS-94). Soil/fill and soil gas probe sampling locations completed to date in EU13 are shown on Figure 3.10.

Previous investigations in EU13 included one soil gas probe (GP14-09). Groundwater investigative locations in this area include nine temporary monitoring wells (BH01-13, BH66-13, BH67-13, BH71-13 to BH74-13, BH80-13, and BH81-13), groundwater monitoring wells (MW-215A, MW-215B, and MW-234), and VAS (VAS-09, VAS-33), presented on Figure 2.2.

Observations:

A fill layer is present across EU13, increasing in thickness moving from east to west. The fill layer is present in the eastern portion to approximately 7 feet BGS, increasing to approximate depths of 30 feet BGS at the western boundary of EU13. Below the fill layer, native sand or sand-gravel material is present. Discrete till layers were encountered at investigative locations across EU13 at BH71-13 (31 to 33 feet BGS), VAS-09 (37.5 – 49.5 feet BGS), and MW-215B (33 to 35.5 feet BGS and 52 to 53.5 feet BGS).

Waste was not observed in the eastern portion of EU13 adjacent to Dryden Road or in the immediate vicinity of Building 15. Waste observations in the central to western portions of EU13 included red clay brick fragments, glass, chalk-like material, foundry-type sand, and/or concrete pieces. Additional

materials observed in western EU13 investigative locations included slag, rubber hose, metal wires, scrap metal, mortar material, gypsum-like material, and paper. Staining and odors (petrol-type and/or hydrocarbon odors) were noted at depths ranging from 6 to 22 feet BGS in BH110-18, BH72-13, BH66-13, VAS-09, and MW-215A/B.

3.2.6 EU18

EU18 is located in Parcel 177 and is 0.09 acres in size. EU18 is within a topographically low area that is occasionally submerged, and contains both the Large and Small Ponds. Trees and other types of vegetation are found in EU18.

In the RI/FS Work Plan the proposed investigation included surficial soil/fill sampling at six locations. Sampling locations completed by GHD include five surficial soil/fill locations within EU18 (SS-26 to SS-28, SS-33, SS-34), and one location for herbicides (SS-105). Sampling locations completed to date in EU18 are shown on Figure 3.15.

Surficial soil stratigraphy consisted of fine- to coarse-grained sand, with organics and plastic waste observed in SS-33 (0 – 0.17 feet BGS) only. Slag was observed in SS-26/SS-105 (1.75 to 2 feet BGS).

3.2.7 EU19

EU19 is 21.2 acres in size, comprising most of Parcel 5177, excluding the EU18 portion discussed in the preceding section. Historically, portions of Parcel 5177, and the western portions of Parcels 5175 and 5176 were either subject to excavation, filling, and/or were operated as a dump and landfill. Parcel 5177 is undeveloped and is currently covered with extensive vegetation including mature trees.

In the RI/FS Work Plan, the proposed investigation included three soil borings, 15 test trenches/pits, and 12 surficial soil/fill sample locations within EU19. Sampling locations completed by GHD included six test pits (TP-11, TP-12, TP-14 to TP17), seven test trenches (TT-31 to TT-37), and 16 surficial soil/fill sample locations (SS-20 to SS-24, SS-29, SS-30, SS-31, SS-35, S-36, SS-106 to SS-108, SS-110, SS-111, SS-113). Four soil boreholes (BH164-17 to BH166-17) were completed in the vicinity of test trenches, to depths greater than 15 feet BGS, at least 5 feet into native material, due to the limitations of the excavator reach. Eight boreholes (BH95-17, BH96-18, BH171-18 to BH174-18, BH176-18, and BH177-18) were completed at points across EU19. GHD also proposed to install five soil gas probes and reinstall one soil gas probe (GP03-09). GHD installed five soil gas probes (GP25-18 to GP29-18). GHD was unable to reinstall GP03-09 because the water table was encountered at 4 feet BGS. Soil/fill and soil gas probe sampling locations completed to date in EU19 are shown on Figure 3.16.

Previous investigations in EU19 included five test pits (TP-1 to TP-4, and TP-11) and four test trenches (TT-15, TT-28 to TT-30) to investigate geophysical anomalies, and three soil gas probes (GP03-09, GP04-09, GP21-09). Groundwater investigative locations in this area include 13 soil boreholes/temporary monitoring wells (BH75-13 to BH77-13, BH79-13, BH82-13, BH85-13 to BH88-13, BH90-13 to BH93-13), four monitoring wells (MW-101A, MW-203, MW-204, and MW-233), and VAS (VAS-11, VAS-12, VAS-37, VAS-38), presented on Figure 2.2.

Observations:

Fill is present across EU19 at varying depths ranging from 9 feet BGS to 42.6 feet BGS. Below the fill layer, native sand material is present, with discrete, discontinuous layers of till.

Waste material was observed in all portions of EU19, including one or more of the following: foundry-type sand, slag, cinders, plastic/rubber and glass debris/pieces including bottles, wood pieces, concrete debris, metal debris, bricks fragments, siding, laminated materials, poly tanks, crushed steel drums. Odors were noted at BH94-17 (25 – 25.5 feet BGS), BH95-17 (14.5 to 17 feet BGS), BH172-17 (37.1 to 42.6 feet BGS), BH77-13 (16.9 feet BGS), BH88-13 (12.5 feet BGS), TT-37 (10 feet BGS).

3.3 Northern Area

The Northern Area includes the following: Parcel 5054 and portions of the adjoining GMR floodplain parcels; a portion of Parcel 5177; and the Dryden Road businesses located on Parcels 5171 and 5172, shown on Figure 1.2. The EUs within the Northern Area include:

- EU14 (Parcel 5172) located on the eastern side of the Northern Area adjoining Dryden Road, used for active business operations by tenants of the property owner, Dryden Road Investments LLC.
- EU15 (Parcel 5171) located on the eastern side of the Northern Area, adjoining Dryden Road, used for active business operations by B&G Equipment & Truck Repair.
- EU16 includes Parcel 5054 and the northern portion of Parcel 5177[5], used for active business operations by Valley Asphalt.
- EU17 located adjacent to the GMR floodplain (within both the Northern Area and the Central Area) on various property parcels owned by MCD.

Descriptions of the land use, field investigations, and observations of the soil/fill conditions for each EU within the Northern Area are presented in the following subsections.

3.3.1 EU14

EU14 comprises Parcel 5172 and is 1.94 acres in size. This includes three buildings (Buildings 12, 13, and 14, shown on Figure 2.5) used for commercial purposes. Potential VI at Buildings 12 and 14 is being addressed using SSDS installed by the Respondents. The area around the buildings includes paved surfaces and open ground with gravel cover and/or vegetation. The east side of the parcel fronts onto Dryden Road allowing road access for business operations. The western boundary of EU14 is fenced; however, based on encroachment of the reclaimed asphalt pile belonging to Valley Asphalt, the fence may not be at the boundary of Parcel 5172.

In the RI/FS Work Plan, the proposed investigation included two soil borings to a depth of 15 feet BGS (BH105-18 and BH106-18), two soil gas probes (GP30-18 and GP31-18) and eight surficial soil/fill sample locations (SS-46 to SS-53) within EU14. GHD completed each location as

[5] The northern portion of Parcel 5177 is used by Valley Asphalt by agreement with the property owner (South Dayton Landfill Environmental Remediation Trust).

proposed. Soil/fill and soil gas probe sampling locations completed in EU14 are shown on Figure 3.11.

Previous investigations in EU14 included two test trenches (TT-8 and TT-9) to investigate geophysical anomalies, and one soil probe (GP15-09). Groundwater investigative locations in this area include seven temporary monitoring wells (BH62-13 to BH65-13, BH68-13 to BH70-13), one monitoring well (MW-208), and VAS (VAS-08 and VAS-34), presented on Figure 2.2.

Observations:

A fill layer is present across EU14, increasing slightly in thickness moving east to west. The fill layer is present in the eastern portion to approximate depths of 8.5 to 10 feet BGS, increasing to approximate depths of 10 to 12 feet BGS to the west. Below the fill layer, native sand or sand-gravel material is present.

There was comparatively little evidence of waste material in the eastern portion of EU14; glass and plastic pieces were observed at surficial depths (approximately 2 feet BGS) in GP30-18 and BH64-13. In the western portion of EU14, the following waste objects were observed from TT-8, TT-9, and/or BH65-13 to depths of 17 feet BGS: cinders, bricks, glass, concrete, old mop heads, broken stained-glass windows, crushed metal containers, cloth bags, springs, old glass milk bottles, scrap metal, and broken dishes. In addition, foundry-type sand was observed in TT-9 at 9 feet BGS. Orange/yellow/red staining was observed in BH65-13 (2.1 feet BGS), and BH105-18 (10.4 feet BGS).

Discrete clay layers were encountered at investigative locations across EU14. A clay layer was present at depths of 5.7 to 7 feet BGS in BH70-13 and GP13-18 in the eastern portion of EU14. A clay layer was encountered from 6.5 to 10 feet BGS in BH65-13 in the western portion of EU14. Based on depth to native material noted above, it appears that the clay layers are within the fill layer.

3.3.2 EU15

EU15 comprises Parcel 5171 and is 5.69 acres in size. This includes four buildings/structures (Buildings 8, 9, 10, and 11, shown on Figure 2.5), used for commercial purposes. Potential VI at Buildings 8 and 9 is being addressed using SSDS installed by the Respondents. The area around the buildings includes paved surfaces and open ground with gravel cover and/or vegetation. The east side of the parcel fronts onto Dryden Road allowing road access for business operations. The west portion of the parcel is fenced.

In the RI/FS Work Plan, the proposed investigation included three soil borings, two test trenches/pits, eight surficial soil/fill samples, one newly-installed soil gas probe, and two re-installed soil gas probes. Sampling locations completed by GHD include three soil borings (BH143-18, BH144-18, BH145-18), one test trench (TT-43), 11 surficial soil/fill samples (SS-130 to SS-137, SS-125, SS-141, and SS-143), one newly-installed soil gas probe (GH33-18), and two re-installed soil gas probes (GP19-18 and GP20-18). GHD also proposed and completed one additional soil boring (BH160-18) 5 feet into native soil at a test trench/pit location if fill was present at depths greater than 15 feet BGS, due to limitations of the excavator reach. One test trench (TT-42) was not completed due to property owner concerns about interference with business operations. Soil/fill and soil gas probe sampling locations completed in EU15 are shown on Figure 3.12.

Previous investigations in EU15 included four test trenches (TT-23, TT-25, TT-26, and TT-27) to investigate geophysical anomalies, and four soil gas probes (GP16-09, GP19-09, GP20-09, and GP22-13). Groundwater investigative locations in this area include NAPL investigation boreholes (BH01-09 to BH05-09), 14 soil boreholes/temporary monitoring wells (BH49-13 to BH61-13, and BH50B-13), groundwater monitoring wells (MW-216, MW-219, MW-225, and MW-227), and VAS (VAS-04, VAS-07, VAS-14, and VAS-44), presented on Figure 2.2.

Observations:

Fill is present across EU15 at varying depths ranging from 10 feet BGS (GP20-18) to 28 feet BGS (MW-219). Below the fill layer, native sand-gravel material is present.

Waste material was observed in all portions of EU15, including one or more of the following: foundry-type sand, fly ash, slag, plastic and glass debris/pieces, wood pieces, concrete, metal debris, empty drum carcass, steel tank, and/or bricks. This is based on observations at BH01-09, BH49-13, BH60-13, BH61-13, BH143-18, BH144-18, BH145-18, TT-23, TT-25, TT-26, TT-27, TT-43, VAS-04, VAS-07, VAS-14, VAS-44, GP16-09, GP19-09/18, GP20-18, GP22-13, GP33-18, MW-216, MW-219, MW-225, and MW-227. Odors were noted during investigation of BH01-09 (2.5 to 16 feet BGS, and 24 feet BGS), BH50-13 (24.5 feet BGS), TT-25 (7 to 18 feet BGS), VAS-04 (24 feet BGS and 27 to 30 feet BGS), and MW-219 (21.5 feet BGS and 24 to 36 feet BGS).

3.3.3 EU16

EU16 comprises Parcel 5054 and the northern portion of Parcel 5177, with a total area of 13.29 acres. EU16 includes various buildings/structures used for asphalt production by Valley Asphalt. Most of the area is utilized for storage of stockpiled production materials (aggregate) and reclaimed asphalt. A paved road exists to provide access from Dryden Road at the north end of Parcel 5054.

In the RI/FS Work Plan, the proposed investigation included seven soil borings (BH136-18 to BH141-18) and one test trench/pit in EU16 (TT-24). The investigations were completed as proposed. In addition, GHD installed soil gas probe GP01-18, as a replacement for GP01-09 which is inaccessible within the Valley Asphalt production area. Surficial soil/fill samples (0 – 2 feet BGS) were not proposed for EU16 due to the presence of large quantities of reclaimed asphalt, aggregate, and other stockpiled material. Soil/fill and soil gas probe sampling locations completed in EU16 are shown on Figure 3.13.

Previous investigations in EU16 included two test pits (TP-5 and TP-6) and four test trenches (TT-7, TT-21, TT-22, and TT-24) to investigate geophysical anomalies, and three soil gas probes (GP01-09, GP17-09, and GP18-09). Groundwater investigative locations in this area include NAPL investigation boreholes (BH06-09 and BH08-09), 16 soil boreholes/temporary monitoring wells (BH32-13 to BH40-13, BH42-13 to BH44-13, BH46-13 to BH48-13, and BH48B-13), monitoring well (MW-217, MW-228, and MW-229), and VAS (VAS-02, VAS-05, VAS-06, VAS-31, and VAS-32), presented on Figure 2.2.

Ground conditions:

Fill is present across EU16 at varying depths ranging from 16 feet BGS (GP01-18) to 30 feet BGS (BH137-18). Below the fill layer, native sandy gravel or silty sand material is present.

Waste material was observed in all portions of EU16, including one or more of the following: cinders, foundry-type sand, fly ash, slag, rubber pieces, plastic pieces, glass, wood debris, metal debris, concrete debris, solidified paint sludge, partial drum, red clay brick, wiring. This is based on observations from BH06-09, BH08-09, BH34-13, BH35-13, BH37-13, BH39-13, BH40-13, BH43-13, BH47-13, BH136-18, BH138-18 to BH142-18, TP-5, TP-6, TT-7, TT-21, TT-24, GP01-09/18, GP17-09, GP18-09, GP32-18, MW-217, MW-228, MW-229, VAS-02, and VAS-06.

Hydrocarbon odors and/or sheens were noted during investigation of BH07-09 (16 to 24 feet BGS), BH33-13 (1 to 20.5 feet BGS), BH46-13 (22 feet BGS), BH48-13 (28 to 30 feet BGS), BH137-18 (28 to 35 feet BGS), BH141-18 (20 to 30 feet BGS), TT-21 (3 to 22 feet BGS), TT-22 (1 to 24 feet BGS), and VAS-06 (9 to 33 feet BGS). A trash odor was noted during investigation of BH136-18 (16 feet BGS).

3.3.4 EU17

EU17 comprises portions of Parcels 3056, 3057, 3058, 3278, and the area (unnumbered parcel) adjoining Parcel 3278 and Parcel 5177; which is within the OU1 boundary. These parcels are managed by the MCD and include portions of the GMR floodplain and the Great Miami River Recreational Trail.

EU17 is 5.55 acres in size, and generally includes the sloped area that adjoins Parcels 5054 and 5177 with the GMR floodplain. As such, EU17 includes portions of the Northern Area and the Central Area. The northern part of EU17 (north of Parcel 5054) has a broad slope (embankment) with grass cover that is maintained by MCD, with some large trees. The portion of EU17 located to the west of Parcel 5054 and Parcel 5177 has an irregular slope that is covered with large trees and small vegetation.

In the RI/FS Work Plan, the proposed investigation included three test trenches/pits, and 11 surficial soil/fill sample locations within EU17. Sampling locations completed by GHD include three test pits (TP-8 to TP-10), and 17 surficial soil/fill sample locations (SS-1 to SS-11, SS-95 to SS-97, SS-127 to SS-129) in EU17. In addition, GHD completed three boreholes (BH161-18, BH04-18, and BH163-18) to depths of 32 feet BGS, 32 feet BGS, and 28 feet BGS, adjacent to TP-8, TP-9, and TP-10, respectively, since the depth of fill material exceeded the limits of the excavator (15 feet BGS). Soil/fill and soil gas probe sampling locations completed in EU17 are shown on Figure 3.14.

Previous investigations in EU17 included eight test trenches (TT-1 to TT-5, TT-1A, TT-19, and TT-20) to investigate geophysical anomalies. Groundwater investigative locations in this area include soil boreholes/temporary monitoring wells (BH30-13, BH31-13, and BH46B-13), one monitoring well (MW-230), and VAS (VAS-01), presented on Figure 2.2.

Observations:

Three test pits were excavated on top of the landscaped embankment north of Valley Asphalt. Fill was present to the termination depth of the test pits (15 feet BGS). Waste material was observed within two of the test pits (TP-9 and TP-10) and included wood, glass, scrap metal, and foundry-type sand. In 2008, test trenches (TT-1 to TT-5) were excavated into the embankment, and waste materials included glass debris, broken porcelain dishes, poly sheeting, scrap metals, cinders, concrete, pea stone, rubber hose, and asphalt. The boreholes (BH161-18, BH04-18, and BH163-18)

that were completed adjacent to the test pits (TP-8, TP-9, and TP10) encountered native silty clay or silty sand at approximately 18.8 to 20 feet BGS.

4. Analytical Results

This section provides analytical results for soil/fill samples collected from OU1 (Section 4.1) and areas outside of OU1 (Section 4.2).

4.1 Operable Unit 1

Analytical results for soil/fill samples collected from OU1 areas are tabulated in Appendix C (results for all parameters) and Appendix D (results for detected parameters). Each appendix includes individual tables for each EU. Each table includes analytical results for samples collected during the current RI program (2017 to present), and earlier investigation results. Sample locations for individual exposure units are shown on Figure 3.1 through Figure 3.16.

Tables 4.1 through 4.16 provides information for each detected parameter (number of samples, number of detects, minimum detected concentration, maximum detected concentration, and average detected concentration) for each exposure unit (reproduced from the tables included in Appendix D).

As discussed in Section 2, the characterization of soil/fill focuses on TCL/TAL parameters, including VOCs, SVOCs, metals, cyanide, PCBs, and pesticides. These parameters were analyzed in multiple samples from all exposure units. Additional parameters that were analyzed at a reduced frequency include asbestos, dioxins and furans, fractionated lead, and herbicides. The following provides an overview of the analytical results for each group of parameters.

4.1.1 Volatile Organic Compounds (VOCs)

VOCs were detected in soil/fill samples collected from all EUs but were variable in terms of the number and type of parameters, and the range of detected concentrations. The following table identifies the number of detected VOCs and the maximum individual VOC concentration (in micrograms per kilogram, i.e., µg/kg) in soil/fill samples.

Table 4.17 Summary of VOCs Results for OU1 Soil/Fill Samples

Area and Exposure Unit	# of detected parameters	Maximum detected concentration (µg/kg)
Southern Area:		
EU1	2	13
EU2	3	23
EU3	12	2,800
EU4	10	94
EU5 to EU8	10	250
Central Area:		
EU9	7	180
EU10	7	100
EU11	14	2,400
EU12	20	5,900

Table 4.17 Summary of VOCs Results for OU1 Soil/Fill Samples

Area and Exposure Unit	# of detected parameters	Maximum detected concentration (µg/kg)
EU13	25	140,000
EU18	7	55
EU19	34	3,000,000
Northern Area:		
EU14	26	140,000
EU15	22	2,000,000
EU16	29	590,000
EU17	18	2,500

As shown in the above table, the data distribution indicates greater number of VOCs and concentrations exist within certain parts of the Central and Northern areas of OU1. The information for detected VOC parameters (number of samples, number of detects, minimum detected concentration, maximum detected concentration, and average detected concentration) for each exposure unit (reproduced from Tables 4.1 to 4.16) are listed in the following subsections.

4.1.1.1 EU1

EU1 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
2-Butanone (Methyl ethyl ketone) (MEK)	13	4	2.5	4.7	3.5
Acetone	13	1	13	13	13

4.1.1.2 EU2

EU2 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
2-Butanone (Methyl ethyl ketone) (MEK)	8	1	7.2	7.2	7.2
Acetone	8	1	23	23	23
Toluene	8	1	1.1	1.1	1.1

4.1.1.3 EU3

EU3 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
1,4-Dichlorobenzene	15	1	23	23	23
2-Butanone (Methyl ethyl ketone) (MEK)	15	10	4.3	13	7.8
Acetone	15	7	22	63	41
Benzene	15	1	0.33	0.33	0.33
cis-1,2-Dichloroethene	15	1	0.47	0.47	0.47
Cyclohexane	16	3	0.43	210	90
Ethylbenzene	15	2	0.38	380	190
Isopropyl benzene	15	1	140	140	140
Methyl cyclohexane	16	5	0.55	410	102
Methylene chloride	16	1	500	500	500

EU3 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
Toluene	15	3	0.92	430	144
Xylenes (total)	15	3	0.68	2,800	934

4.1.1.4 EU4

EU4 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
1,1,1-Trichloroethane	15	2	1	94	48
2-Butanone (Methyl ethyl ketone) (MEK)	14	3	5.8	9.9	7.2
Acetone	14	1	81	81	81
Benzene	14	2	0.46	0.9	0.7
Cyclohexane	14	2	0.43	1.2	0.82
Ethylbenzene	12	1	0.78	0.78	0.78
Methyl cyclohexane	14	3	0.55	2	1
Tetrachloroethene	12	2	0.34	72	36
Toluene	12	3	1	1.8	1.3
Xylenes (total)	12	1	1.4	1.4	1.4

4.1.1.5 EU5 TO EU8

EU5 to EU8 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
2-Butanone (Methyl ethyl ketone) (MEK)	23	8	3.2	38	13
Acetone	23	12	19	250	82
Carbon disulfide	23	1	2.8	2.8	2.8
cis-1,2-Dichloroethene	23	1	5	5	5
Cyclohexane	23	1	4.8	4.8	4.8
Ethylbenzene	23	1	3.6	3.6	3.6
Methyl cyclohexane	23	1	6.7	6.7	6.7
Tetrachloroethene	23	4	1.6	8.4	4.4
Toluene	23	3	1.4	8.9	3.9
Xylenes (total)	23	1	16	16	16

4.1.1.6 EU9

EU9 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
1,1-Dichloroethane	12	1	4.3	4.3	4.3
2-Butanone (Methyl ethyl ketone) (MEK)	12	4	1.4	41	13
Acetone	12	2	22	180	101
Ethylbenzene	12	1	2.4	2.4	2.4
Isopropyl benzene	12	1	1.1	1.1	1.1
Toluene	12	1	2.6	2.6	2.6
Xylenes (total)	12	1	12	12	12

4.1.1.7 EU10

EU10 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
2-Butanone (Methyl ethyl ketone) (MEK)	14	7	3.1	19	9.6
Acetone	14	9	17	100	48
Carbon disulfide	14	2	0.34	0.38	0.36
cis-1,2-Dichloroethene	14	1	0.93	0.93	0.93
Toluene	13	1	1.7	1.7	1.7
Vinyl chloride	14	1	0.28	0.28	0.28
Xylenes (total)	13	1	1.5	1.5	1.5

4.1.1.8 EU11

EU11 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
1,1,1-Trichloroethane	21	1	0.54	0.54	0.54
2-Butanone (Methyl ethyl ketone) (MEK)	21	4	4.2	12	6.4
Acetone	18	4	25	60	49
Chlorobenzene	21	1	0.57	0.57	0.57
Chloroform (Trichloromethane)	21	1	0.4	0.4	0.4
cis-1,2-Dichloroethene	21	3	0.3	1.6	0.8
Ethylbenzene	21	2	0.3	8.6	4.5
Isopropyl benzene	21	1	1.4	1.4	1.4
Methyl cyclohexane	21	1	0.25	0.25	0.25
Methylene chloride	21	1	0.65	0.65	0.65
Tetrachloroethene	21	2	0.69	1.1	0.90
Toluene	21	5	0.32	75	16
Trichloroethene	21	10	0.45	2,400	252
Xylenes (total)	21	3	1	6.4	3

4.1.1.9 EU12

EU12 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
1,1-Dichloroethane	19	2	1.3	1.9	1.6
1,3-Dichlorobenzene	16	1	2.4	2.4	2.4
1,4-Dichlorobenzene	17	3	2.6	8.6	5.1
2-Butanone (Methyl ethyl ketone) (MEK)	19	7	3.9	380	61
Acetone	18	7	24	770	204
Benzene	19	3	0.32	1.6	1.0
Carbon disulfide	18	3	0.58	2.8	1.5
Chlorobenzene	19	2	1.4	2.1	1.8
Chloroform (Trichloromethane)	19	1	0.34	0.34	0.34
cis-1,2-Dichloroethene	19	3	0.79	28	10
Cyclohexane	19	4	0.36	1,400	350
Ethylbenzene	19	4	0.37	65	17
Isopropyl benzene	19	2	1.3	150	75

EU12 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
Methyl cyclohexane	19	5	0.42	5,900	1,251
Methylene chloride	19	4	1.9	980	254
Tetrachloroethene	19	3	4.7	58	23
Toluene	19	8	0.36	630	119
Trichloroethene	19	6	0.47	81	17
Vinyl chloride	19	1	1.7	1.7	1.7
Xylenes (total)	19	5	1.2	2,300	563

4.1.1.10 EU13

EU13 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
1,1,1-Trichloroethane	29	2	2.1	54	28
1,1-Dichloroethane	29	2	25	77	51
1,2,4-Trichlorobenzene	27	1	210	210	210
1,2-Dichlorobenzene	27	1	1.7	1.7	1.7
1,3-Dichlorobenzene	27	1	170	170	170
2-Butanone (Methyl ethyl ketone) (MEK)	30	7	2.4	510	79
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	28	1	0.64	0.64	0.64
Acetone	29	2	1,200	4,500	2,850
Benzene	29	7	0.23	190	33
Carbon disulfide	28	6	0.47	2.4	1.4
Chlorobenzene	29	9	0.37	1,000	251
Chloroform (Trichloromethane)	28	2	0.25	0.4	0.3
cis-1,2-Dichloroethene	30	10	1.7	890	229
Cyclohexane	29	5	0.5	1,400	298
Ethylbenzene	29	10	0.35	59,000	12,431
Isopropyl benzene	29	8	0.34	13,000	2,460
Methyl acetate	28	2	230	650	440
Methyl cyclohexane	30	11	0.27	53,000	5,934
Methylene chloride	28	6	7.4	4,000	675
Tetrachloroethene	28	4	3.1	7,200	3,408
Toluene	30	14	0.47	1,400	208
trans-1,2-Dichloroethene	29	3	10	66	41
Trichloroethene	29	20	0.71	13,000	1,306
Vinyl chloride	29	2	4.9	50	27
Xylenes (total)	29	14	0.7	140,000	16,756

4.1.1.11 EU14

EU14 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
1,1-Dichloroethane	25	9	1.1	240	53
1,1-Dichloroethene	25	2	0.89	4.6	2.7

EU14 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
1,2-Dichlorobenzene	23	1	1.1	1.1	1.1
1,2-Dichloroethane	25	1	4.3	4.3	4.3
1,4-Dichlorobenzene	23	2	1.7	100	51
2-Butanone (Methyl ethyl ketone) (MEK)	26	9	1.9	540	104
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	25	3	1.5	1,000	621
Acetone	25	3	14	510	195
Benzene	25	9	0.22	310	70
Carbon disulfide	25	3	0.83	110	38
Chlorobenzene	25	7	0.39	4,000	1,260
Chloroethane	25	1	4.3	4.3	4.3
cis-1,2-Dichloroethene	25	15	0.39	890	164
Cyclohexane	25	3	0.38	160	54
Ethylbenzene	25	9	0.35	66,000	10,200
Isopropyl benzene	25	4	110	2,800	1,410
Methyl acetate	25	3	150	1,300	547
Methyl cyclohexane	25	12	0.29	1,100	242
Methyl tert butyl ether (MTBE)	25	1	0.62	0.62	0.62
Methylene chloride	25	4	4.4	260	70
Tetrachloroethene	26	6	0.34	67	13
Toluene	25	17	0.39	5,300	680
trans-1,2-Dichloroethene	25	3	2.2	24	15
Trichloroethene	26	20	1.4	6,400	525
Vinyl chloride	25	7	1.6	410	130
Xylenes (total)	25	11	0.71	140,000	17,682

4.1.1.12 EU15

EU15 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
1,1-Dichloroethane	39	1	5.3	5.3	5.3
1,2,4-Trichlorobenzene	36	1	38	38	38
1,2-Dichlorobenzene	36	2	57	190	124
1,3-Dichlorobenzene	37	1	2.1	2.1	2.1
1,4-Dichlorobenzene	36	1	45	45	45
2-Butanone (Methyl ethyl ketone) (MEK)	40	12	2.9	85	22
Acetone	40	4	5.4	120	51
Benzene	39	4	0.62	21	9.2
Carbon disulfide	38	4	0.78	1.8	1.4
Chlorobenzene	38	1	51	51	51
cis-1,2-Dichloroethene	38	10	0.36	1,000	257
Cyclohexane	38	2	46	56	51
Ethylbenzene	39	3	0.28	260,000	86,681
Isopropyl benzene	39	3	85	57,000	19,628
Methyl cyclohexane	38	8	0.39	2,800	439

EU15 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
Methylene chloride	40	6	15	560	241
Tetrachloroethene	39	7	1	99	29
Toluene	39	16	0.35	95,000	5,964
trans-1,2-Dichloroethene	38	1	56	56	56
Trichloroethene	39	22	0.37	5,200	1,065
Vinyl chloride	38	2	1.9	54	28
Xylenes (total)	39	8	1.2	2,000,000	250,212

4.1.1.13 EU16

EU16 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
1,1,2-Trichloroethane	45	1	8.3	8.3	8.3
1,1-Dichloroethane	45	5	0.46	280	84
1,1-Dichloroethene	45	3	3.5	49	22
1,2,4-Trichlorobenzene	43	1	24	24	24
1,2-Dichlorobenzene	43	2	42	47	45
1,2-Dichloroethane	45	2	49	1,200	625
1,2-Dichloropropane	45	1	1,800	1,800	1,800
1,3-Dichlorobenzene	43	1	44	44	44
1,4-Dichlorobenzene	43	5	17	89	41
2-Butanone (Methyl ethyl ketone) (MEK)	45	17	1.3	170	29
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	45	5	0.73	900	287
Acetone	45	7	6.4	28,000	4,223
Benzene	45	25	0.2	11,000	574
Carbon disulfide	45	10	0.38	97	11
Chlorobenzene	45	9	14	100,000	20,534
Chloroethane	45	1	91	91	91
cis-1,2-Dichloroethene	45	25	0.39	98,000	6,195
Cyclohexane	45	10	1.4	750	191
Ethylbenzene	45	24	1.4	210,000	17,258
Isopropyl benzene	45	20	0.41	15,000	1,881
Methyl acetate	45	11	58	690	234
Methyl cyclohexane	45	29	0.44	14,000	1,304
Methylene chloride	45	5	0.84	190	45
Tetrachloroethene	45	7	0.56	40,000	6,305
Toluene	45	37	0.28	87,000	3,738
trans-1,2-Dichloroethene	45	12	0.53	300	119
Trichloroethene	45	18	0.51	28,000	4,137
Vinyl chloride	45	14	0.58	1,100	202
Xylenes (total)	45	26	1.1	590,000	41,161

4.1.1.14 EU17

EU17 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
1,1,1-Trichloroethane	43	1	2.7	2.7	2.7
1,4-Dichlorobenzene	40	1	1.2	1.2	1.2
2-Butanone (Methyl ethyl ketone) (MEK)	43	4	3	60	29
Acetone	43	1	45	45	45
Benzene	43	2	0.45	1	0.7
Carbon disulfide	43	2	17	22	20
Chloroform (Trichloromethane)	43	1	0.66	0.66	0.66
cis-1,2-Dichloroethene	42	1	0.62	0.62	0.62
Cyclohexane	42	1	0.46	0.46	0.46
Ethylbenzene	42	3	0.71	18	11
Isopropyl benzene	41	2	51	73	62
Methyl acetate	42	3	1.6	210	127
Methyl cyclohexane	42	5	0.61	16	3.8
Methylene chloride	43	2	0.96	29	15
Tetrachloroethene	43	12	0.5	2,500	223
Toluene	42	9	0.23	24	3.4
Trichloroethene	43	11	0.89	60	13
Xylenes (total)	42	6	0.98	83	15

4.1.1.15 EU18

EU18 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
1,3-Dichlorobenzene	4	1	1.9	1.9	1.9
2-Butanone (Methyl ethyl ketone) (MEK)	7	3	5.2	37	17
Acetone	7	1	3	3	3
Methylene chloride	7	1	55	55	55
Tetrachloroethene	6	1	3.7	3.7	3.7
Toluene	5	2	5	7	6
Trichloroethene	8	1	3.5	3.5	3.5

4.1.1.16 EU19

EU19 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
1,1,1-Trichloroethane	78	10	0.71	1,500	162
1,1,2-Trichloroethane	73	1	45	45	45
1,1-Dichloroethane	77	13	0.77	720	196
1,1-Dichloroethene	77	1	79	79	79
1,2,4-Trichlorobenzene	64	4	0.98	130	69
1,2-Dichlorobenzene	65	3	6.9	250	152
1,2-Dichloroethene (total)	16	1	200	200	200
1,3-Dichlorobenzene	67	5	0.89	180	42
1,4-Dichlorobenzene	66	8	0.87	12,000	2,261

EU19 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
2-Butanone (Methyl ethyl ketone) (MEK)	86	23	1	1,900	205
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	84	10	0.52	940	167
Acetone	86	7	9.3	880	148
Benzene	77	13	0.36	320	52
Carbon disulfide	79	14	0.41	150	15
Carbon tetrachloride	77	1	2.7	2.7	2.7
Chlorobenzene	74	20	0.66	560,000	29,193
Chloroethane	77	4	1.4	63	21
cis-1,2-Dichloroethene	70	4	0.88	1,100	310
Cyclohexane	70	11	0.31	160	39
Ethylbenzene	74	19	0.34	350,000	18,673
Isopropyl benzene	66	16	0.27	1,800	361
Methyl acetate	70	17	2.1	2,400	321
Methyl cyclohexane	70	21	0.35	970	143
Methyl tert butyl ether (MTBE)	70	1	2	2	2
Methylene chloride	78	9	1.5	110	30
Styrene	73	2	0.9	16	8.5
Tetrachloroethene	84	18	0.96	1,100	142
Toluene	86	36	0.41	1,600	175
trans-1,2-Dichloroethene	70	1	83	83	83
Trichloroethene	87	9	0.81	8,400	966
Trichlorofluoromethane (CFC-11)	70	1	79	79	79
Trifluorotrichloroethane (CFC-113)	69	1	21	21	21
Vinyl chloride	77	3	18	59	39
Xylenes (total)	82	24	0.89	3,000,000	126,384

4.1.2 Semi-volatile Organic Compounds (SVOCs)

SVOCs were detected in soil/fill samples collected from all exposure units but were variable in terms of the number and type of parameters, and the range of detected concentrations. The following table identifies the number of detected SVOCs and the maximum individual SVOC concentration in soil/fill samples.

Table 4.18 Summary of SVOCs Results for OU1 Soil/Fill Samples

Area and Exposure Unit	# of detected parameters	Maximum detected concentration (µg/kg)
Southern Area:		
EU1	25	5,200
EU2	14	47
EU3	22	590,000
EU4	25	4,700
EU5 to EU8	27	3,800
Central Area:		
EU9	25	65,000

Table 4.18 Summary of SVOCs Results for OU1 Soil/Fill Samples

Area and Exposure Unit	# of detected parameters	Maximum detected concentration (µg/kg)
EU10	28	2,100
EU11	29	2,000
EU12	27	3,200
EU13	28	11,000
EU18	27	15,000
EU19	34	840,000
Northern Area:		
EU14	27	3,900
EU15	30	23,000
EU16	31	21,000
EU17	28	16,000

As shown in the above table, the data distribution indicates that the number of SVOCs that were detected is relatively uniform across OU1, but greater concentrations exist within certain exposure units, e.g., EU3 and EU19. Generally, the most frequently detected SVOCs include polynuclear aromatic hydrocarbons (PAHs), as detailed below. The information for detected SVOC parameters (number of samples, number of detects, minimum detected concentration, maximum detected concentration, and average detected concentration) for each exposure unit (reproduced from Tables 4.1 to 4.16) are listed in the following subsections.

4.1.2.1 EU1

EU1 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
2-Methylnaphthalene	14	12	11	85	39
Acenaphthene	14	11	12	200	81
Acenaphthylene	14	14	9.8	320	82
Acetophenone	14	1	10	10	10
Anthracene	14	14	25	570	194
Benzaldehyde	14	1	16	16	16
Benzo(a)anthracene	14	14	210	3,400	926
Benzo(a)pyrene	14	14	190	3,100	879
Benzo(b)fluoranthene	14	14	270	3,900	1,220
Benzo(g,h,i)perylene	14	14	71	2,400	655
Benzo(k)fluoranthene	14	14	110	1,500	501
Biphenyl (1,1-Biphenyl)	14	4	8.1	13	11
bis(2-Ethylhexyl)phthalate (DEHP)	14	6	78	330	172
Caprolactam	14	1	320	320	320
Carbazole	14	11	26	330	107
Chrysene	14	14	210	3,200	961
Dibenz(a,h)anthracene	14	11	29	570	164
Dibenzofuran	14	10	14	100	49
Fluoranthene	14	14	270	4,800	1,803

EU1 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
Fluorene	14	12	13	250	80
Indeno(1,2,3-cd)pyrene	14	14	66	1,900	514
Naphthalene	14	12	12	190	50
Phenanthrene	14	14	67	2,000	749
Phenol	14	1	13	13	13
Pyrene	14	14	270	5,200	1,694

4.1.2.2 EU2

EU2 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
2-Methylnaphthalene	8	1	23	23	23
Anthracene	8	1	4.2	4.2	4.2
Benzo(a)anthracene	8	4	9.6	24	15
Benzo(a)pyrene	8	6	12	31	21
Benzo(b)fluoranthene	8	6	8.8	46	27
Benzo(g,h,i)perylene	8	4	8.7	33	17
Benzo(k)fluoranthene	8	2	11	17	14
Chrysene	8	4	17	28	21
Fluoranthene	8	8	9.8	47	25
Indeno(1,2,3-cd)pyrene	8	2	8.8	29	19
Naphthalene	8	1	17	17	17
Phenanthrene	8	5	4.4	29	15
Phenol	8	1	14	14	14
Pyrene	8	8	9.1	38	23

4.1.2.3 EU3

EU3 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
2-Methylnaphthalene	15	12	5.9	6,300	628
Acenaphthene	15	8	5	54,000	6,890
Acenaphthylene	15	7	4.9	1,100	175
Anthracene	15	13	4.8	120,000	9,565
Benzo(a)anthracene	15	13	28	260,000	20,712
Benzo(a)pyrene	15	14	11	270,000	19,886
Benzo(b)fluoranthene	15	14	15	330,000	24,444
Benzo(g,h,i)perylene	15	13	24	120,000	9,593
Benzo(k)fluoranthene	15	12	17	130,000	11,209
Biphenyl (1,1-Biphenyl)	15	1	260	260	260
bis(2-Ethylhexyl)phthalate (DEHP)	15	3	73	620	304
Carbazole	15	4	72	92,000	23,508
Chrysene	15	13	35	250,000	19,972
Dibenz(a,h)anthracene	15	8	9.3	39,000	5,006
Dibenzofuran	15	4	72	30,000	7,964

EU3 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
Di-n-butylphthalate (DBP)	15	1	25	25	25
Fluoranthene	15	14	19	590,000	43,714
Fluorene	15	9	6.3	62,000	7,215
Indeno(1,2,3-cd)pyrene	15	13	24	120,000	9,558
Naphthalene	15	9	5.3	18,000	2,122
Phenanthrene	15	14	7.9	480,000	35,565
Pyrene	15	14	17	450,000	33,376

4.1.2.4 EU4

EU4 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
2-Methylnaphthalene	15	12	6.4	240	50
Acenaphthene	15	5	4.4	250	92
Acenaphthylene	15	5	8.8	45	26
Acetophenone	15	1	25	25	25
Anthracene	15	10	7.3	480	108
Benzaldehyde	15	3	39	120	72
Benzo(a)anthracene	15	14	11	1,200	251
Benzo(a)pyrene	15	14	8.7	1,100	237
Benzo(b)fluoranthene	15	14	12	1,300	313
Benzo(g,h,i)perylene	15	13	7.9	790	167
Benzo(k)fluoranthene	15	10	7.1	600	174
Biphenyl (1,1-Biphenyl)	15	1	25	25	25
bis(2-Ethylhexyl)phthalate (DEHP)	15	5	78	4,700	1,038
Carbazole	15	4	22	400	144
Chrysene	15	14	12	1,400	280
Dibenz(a,h)anthracene	15	8	6.2	180	67
Dibenzofuran	15	4	16	180	91
Di-n-butylphthalate (DBP)	15	3	26	250	101
Fluoranthene	15	14	19	3,700	640
Fluorene	15	7	3.8	250	69
Indeno(1,2,3-cd)pyrene	15	11	5.5	610	162
Naphthalene	15	12	10	150	44
Phenanthrene	15	15	5.8	3,400	445
Phenol	15	2	13	27	20
Pyrene	15	14	20	2,900	533

4.1.2.5 EU5 to EU8

EU5 to EU8 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
2-Methylnaphthalene	23	21	12	1,200	184
Acenaphthene	23	12	6.8	170	73
Acenaphthylene	23	17	4.5	95	40

EU5 to EU8 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
Acetophenone	23	5	12	95	43
Anthracene	23	19	4.5	580	124
Benzaldehyde	23	3	32	94	56
Benzo(a)anthracene	23	22	8	1,900	355
Benzo(a)pyrene	23	23	5.1	1,600	372
Benzo(b)fluoranthene	23	23	8.5	2,100	523
Benzo(g,h,i)perylene	23	20	6.3	640	219
Benzo(k)fluoranthene	23	16	24	840	270
Biphenyl (1,1-Biphenyl)	23	5	22	130	65
bis(2-Ethylhexyl)phthalate (DEHP)	23	6	60	320	140
Carbazole	23	10	37	320	111
Chrysene	23	21	8.3	1,900	396
Dibenz(a,h)anthracene	23	10	22	200	90
Dibenzofuran	23	13	21	290	80
Di-n-butylphthalate (DBP)	23	3	30	53	41
Fluoranthene	23	23	9.8	3,800	782
Fluorene	23	14	5.1	220	73
Hexachlorobenzene	23	1	36	36	36
Indeno(1,2,3-cd)pyrene	23	20	5.4	650	191
Isophorone	23	1	110	110	110
Naphthalene	23	20	9.5	740	127
Pentachlorophenol	23	1	860	860	860
Phenanthrene	23	23	6.3	2,100	493
Pyrene	23	23	10	2,900	641

4.1.2.6 EU9

EU9 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
2-Methylnaphthalene	12	10	9.7	2,900	471
2-Methylphenol	12	1	13	13	13
Acenaphthene	12	7	7.1	5,300	810
Acenaphthylene	12	6	4.4	60	27
Acetophenone	12	1	96	96	96
Anthracene	12	11	5.3	12,000	1,205
Benzaldehyde	12	1	95	95	95
Benzo(a)anthracene	12	11	34	27,000	2,820
Benzo(a)pyrene	12	11	35	17,000	1,887
Benzo(b)fluoranthene	12	12	56	25,000	2,601
Benzo(g,h,i)perylene	12	12	20	8,700	972
Benzo(k)fluoranthene	12	11	17	9,500	1,073
Biphenyl (1,1-Biphenyl)	12	2	6	64	35
bis(2-Ethylhexyl)phthalate (DEHP)	12	2	57	8,600	4,329
Carbazole	12	7	23	8,400	1,292
Chrysene	12	11	40	29,000	3,019

EU9 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
Dibenz(a,h)anthracene	12	9	8.3	2,700	362
Dibenzofuran	12	6	26	2,700	533
Fluoranthene	12	12	57	65,000	6,182
Fluorene	12	7	45	5,300	876
Indeno(1,2,3-cd)pyrene	12	11	14	7,600	882
Isophorone	12	1	44	44	44
Naphthalene	12	10	11	760	209
Phenanthrene	12	12	41	52,000	4,835
Pyrene	12	12	51	50,000	4,923

4.1.2.7 EU10

EU10 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
2-Methylnaphthalene	14	14	4.5	770	170
2-Methylphenol	14	1	84	84	84
3&4-Methylphenol	14	1	210	210	210
Acenaphthene	14	7	4.3	54	23
Acenaphthylene	14	10	6.2	140	33
Acetophenone	14	2	64	79	72
Anthracene	14	14	5	270	53
Benzaldehyde	14	2	69	110	90
Benzo(a)anthracene	14	14	24	970	245
Benzo(a)pyrene	14	14	28	840	219
Benzo(b)fluoranthene	14	14	42	1,300	362
Benzo(g,h,i)perylene	14	14	33	530	165
Benzo(k)fluoranthene	14	14	15	450	118
Biphenyl (1,1-Biphenyl)	14	6	4.4	110	36
bis(2-Ethylhexyl)phthalate (DEHP)	14	3	38	110	74
Carbazole	14	5	33	280	90
Chrysene	14	14	30	870	275
Dibenz(a,h)anthracene	14	12	11	150	52
Dibenzofuran	14	9	17	270	77
Diethyl phthalate	14	1	43	43	43
Di-n-butylphthalate (DBP)	14	1	20	20	20
Fluoranthene	14	14	41	2,100	408
Fluorene	14	9	4	120	29
Indeno(1,2,3-cd)pyrene	14	14	26	490	134
Naphthalene	14	14	5.6	460	99
Phenanthrene	14	14	28	1,300	304
Phenol	14	2	12	180	96
Pyrene	14	14	30	1,500	331

4.1.2.8 EU11

EU11 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
2-Methylnaphthalene	20	15	8.4	610	91
Acenaphthene	20	10	5	56	23
Acenaphthylene	20	13	4	120	34
Acetophenone	20	4	16	53	31
Anthracene	20	15	4.3	200	64
Benzaldehyde	20	4	24	55	34
Benzo(a)anthracene	20	19	11	1,200	229
Benzo(a)pyrene	20	18	13	1,400	248
Benzo(b)fluoranthene	20	19	14	2,000	333
Benzo(g,h,i)perylene	20	19	8.5	940	146
Benzo(k)fluoranthene	20	18	7.6	640	129
Biphenyl (1,1-Biphenyl)	20	5	7.4	56	29
bis(2-Ethylhexyl)phthalate (DEHP)	20	5	23	630	168
Butyl benzylphthalate (BBP)	20	1	41	41	41
Caprolactam	20	1	44	44	44
Carbazole	20	7	25	120	65
Chrysene	20	19	13	1,300	262
Dibenz(a,h)anthracene	20	10	10	220	68
Dibenzofuran	20	11	11	150	42
Diethyl phthalate	20	1	21	21	21
Di-n-butylphthalate (DBP)	20	1	27	27	27
Fluoranthene	20	19	16	2,000	392
Fluorene	20	12	3.8	85	32
Hexachlorobutadiene	20	1	13	13	13
Indeno(1,2,3-cd)pyrene	20	18	8.8	910	139
Naphthalene	20	15	5.7	400	67
Phenanthrene	20	19	11	900	249
Phenol	20	1	53	53	53
Pyrene	20	19	19	1,800	369

4.1.2.9 EU12

EU12 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
2-Methylnaphthalene	15	13	15	3,200	430
3&4-Methylphenol	12	2	91	420	256
Acenaphthene	15	6	11	190	68
Acenaphthylene	15	6	4.3	110	29
Acetophenone	15	3	22	210	96
Anthracene	15	9	9.3	240	76
Benzaldehyde	15	4	35	330	121
Benzo(a)anthracene	15	13	5.3	860	199
Benzo(a)pyrene	15	10	16	770	220

EU12 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
Benzo(b)fluoranthene	15	12	9.4	1,100	288
Benzo(g,h,i)perylene	15	11	9.4	510	126
Benzo(k)fluoranthene	15	9	8.5	480	123
Biphenyl (1,1-Biphenyl)	15	5	34	250	117
bis(2-Ethylhexyl)phthalate (DEHP)	15	7	54	620	226
Carbazole	15	4	32	140	66
Chrysene	15	13	10	870	233
Dibenz(a,h)anthracene	15	7	13	130	50
Dibenzofuran	15	7	26	990	227
Diethyl phthalate	15	1	42	42	42
Di-n-butylphthalate (DBP)	15	3	26	140	72
Fluoranthene	15	13	5.6	1,800	319
Fluorene	15	7	14	330	89
Indeno(1,2,3-cd)pyrene	15	10	11	470	104
Naphthalene	15	12	6.1	1,500	251
Phenanthrene	15	14	11	2,300	387
Phenol	15	1	87	87	87
Pyrene	15	13	7	1,400	301

4.1.2.10 EU13

EU13 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
2,4-Dimethylphenol	15	1	170	170	170
2-Methylnaphthalene	16	15	5	8,800	1,640
2-Methylphenol	15	1	110	110	110
Acenaphthene	16	6	12	590	334
Acenaphthylene	16	6	4.6	190	62
Acetophenone	16	4	17	340	105
Anthracene	16	7	9.7	1,700	300
Benzaldehyde	16	2	24	55	40
Benzo(a)anthracene	16	12	15	5,200	714
Benzo(a)pyrene	16	13	15	5,200	600
Benzo(b)fluoranthene	16	14	10	8,000	1,003
Benzo(g,h,i)perylene	16	11	17	3,600	531
Benzo(k)fluoranthene	16	11	9.2	3,000	412
Biphenyl (1,1-Biphenyl)	16	7	5.4	1,600	316
bis(2-Ethylhexyl)phthalate (DEHP)	16	8	35	10,000	1,523
Carbazole	16	4	21	1,100	331
Chrysene	16	13	12	5,700	826
Dibenz(a,h)anthracene	16	6	15	920	240
Dibenzofuran	16	10	18	1,100	226
Diethyl phthalate	16	2	19	20	20
Di-n-butylphthalate (DBP)	16	3	37	3,600	1,316
Fluoranthene	16	15	15	11,000	1,122

EU13 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
Fluorene	16	9	6.1	670	284
Indeno(1,2,3-cd)pyrene	16	10	12	3,100	484
Naphthalene	16	13	13	11,000	1,543
Phenanthrene	16	15	17	7,800	1,295
Phenol	15	1	6,600	6,600	6,600
Pyrene	16	15	15	8,900	989

4.1.2.11 EU14

EU14 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
2-Methylnaphthalene	15	10	52	5,400	754
3&4-Methylphenol	9	1	210	210	210
Acenaphthene	15	6	14	72	35
Acenaphthylene	15	7	14	310	73
Acetophenone	15	2	38	48	43
Anthracene	15	7	36	250	129
Benzaldehyde	15	1	140	140	140
Benzo(a)anthracene	15	9	59	1,700	507
Benzo(a)pyrene	15	10	39	2,000	496
Benzo(b)fluoranthene	15	10	61	3,000	734
Benzo(g,h,i)perylene	15	10	46	1,900	467
Benzo(k)fluoranthene	15	7	88	1,200	393
Biphenyl (1,1-Biphenyl)	15	3	14	97	47
bis(2-Ethylhexyl)phthalate (DEHP)	15	8	74	3,000	793
Butyl benzylphthalate (BBP)	15	2	200	250	225
Carbazole	15	4	60	120	82
Chrysene	15	10	94	2,000	540
Dibenz(a,h)anthracene	15	5	37	510	214
Dibenzofuran	15	6	32	120	73
Di-n-butylphthalate (DBP)	15	3	45	2,600	905
Fluoranthene	15	11	110	2,000	782
Fluorene	15	6	17	67	42
Indeno(1,2,3-cd)pyrene	15	9	18	1,700	438
Naphthalene	15	10	28	3,900	608
Phenanthrene	15	12	45	1,100	410
Phenol	15	3	37	87	58
Pyrene	15	11	110	2,000	698

4.1.2.12 EU15

EU15 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
2,4-Dimethylphenol	20	2	490	1,400	945
2-Methylnaphthalene	20	16	6.7	730	237

EU15 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
2-Methylphenol	20	2	88	330	209
3&4-Methylphenol	17	2	3,900	23,000	13,450
3,3'-Dichlorobenzidine	20	1	890	890	890
Acenaphthene	20	10	4.9	1,400	283
Acenaphthylene	20	9	5.7	97	45
Acetophenone	20	1	110	110	110
Anthracene	20	13	4.4	3,600	562
Benzaldehyde	20	1	92	92	92
Benzo(a)anthracene	20	15	11	9,600	1,410
Benzo(a)pyrene	20	14	15	8,500	1,369
Benzo(b)fluoranthene	20	15	21	12,000	1,815
Benzo(g,h,i)perylene	20	14	14	6,100	1,051
Benzo(k)fluoranthene	20	15	8.2	4,200	652
Biphenyl (1,1-Biphenyl)	20	5	34	160	74
bis(2-Ethylhexyl)phthalate (DEHP)	20	7	28	17,000	2,590
Carbazole	20	7	25	1,500	438
Chrysene	20	15	16	9,300	1,425
Dibenz(a,h)anthracene	20	8	18	1,600	428
Dibenzofuran	20	10	14	780	217
Diethyl phthalate	20	4	350	1,100	565
Di-n-butylphthalate (DBP)	20	6	27	2,400	553
Fluoranthene	20	16	33	21,000	2,916
Fluorene	20	12	4.8	1,300	233
Indeno(1,2,3-cd)pyrene	20	14	11	5,300	894
Naphthalene	20	16	9.2	1,700	333
Phenanthrene	20	16	35	13,000	1,839
Phenol	20	3	220	1,400	627
Pyrene	20	16	26	18,000	2,436

4.1.2.13 EU16

EU16 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
2-Methylnaphthalene	23	17	17	4,800	694
2-Methylphenol	23	1	25	25	25
3&4-Methylphenol	12	3	35	1,400	511
Acenaphthene	23	9	33	2,600	648
Acenaphthylene	23	2	8.7	27	18
Acetophenone	23	1	130	130	130
Anthracene	23	9	33	2,900	723
Benzaldehyde	23	2	36	150	93
Benzo(a)anthracene	23	15	11	6,400	889
Benzo(a)pyrene	23	13	14	4,500	822
Benzo(b)fluoranthene	23	17	9	6,200	993
Benzo(g,h,i)perylene	23	12	8.7	2,300	475

EU16 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
Benzo(k)fluoranthene	23	13	10	2,400	468
Biphenyl (1,1-Biphenyl)	23	12	15	740	216
bis(2-Ethylhexyl)phthalate (DEHP)	23	3	270	2,000	927
Carbazole	23	1	250	250	250
Chrysene	23	17	11	5,700	894
Dibenz(a,h)anthracene	23	2	53	540	297
Dibenzofuran	23	8	20	860	323
Diethyl phthalate	23	2	36	690	363
Dimethyl phthalate	23	1	680	680	680
Di-n-butylphthalate (DBP)	23	5	63	6,000	1,462
Fluoranthene	23	20	21	21,000	2,386
Fluorene	23	12	12	2,000	470
Hexachlorobenzene	23	1	350	350	350
Indeno(1,2,3-cd)pyrene	23	11	7.3	2,300	480
Naphthalene	23	18	14	9,800	1,189
N-Nitrosodiphenylamine	23	2	53	100	77
Phenanthrene	23	21	25	6,800	1,469
Phenol	23	5	380	980	734
Pyrene	23	21	15	13,000	1,638

4.1.2.14 EU17

EU17 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
2-Methylnaphthalene	39	22	6.8	210	55
Acenaphthene	39	17	10	1,500	224
Acenaphthylene	39	15	7	180	43
Acetophenone	38	5	14	22	16
Anthracene	39	26	4.8	3,300	410
Benzaldehyde	38	3	15	30	24
Benzo(a)anthracene	39	34	8	7,100	929
Benzo(a)pyrene	39	34	7.4	6,000	711
Benzo(b)fluoranthene	39	36	7.1	8,700	1,033
Benzo(g,h,i)perylene	39	32	11	3,600	440
Benzo(k)fluoranthene	39	29	9.3	2,900	499
Biphenyl (1,1-Biphenyl)	38	4	6.3	27	15
bis(2-Ethylhexyl)phthalate (DEHP)	39	14	25	5,100	455
Butyl benzylphthalate (BBP)	39	7	75	1,100	518
Carbazole	39	11	47	1,700	409
Chrysene	39	35	8.1	6,200	896
Dibenz(a,h)anthracene	39	17	15	1,200	217
Dibenzofuran	39	13	15	890	175
Diethyl phthalate	39	1	150	150	150
Di-n-butylphthalate (DBP)	39	10	20	560	125
Fluoranthene	39	37	8.9	16,000	1,779

EU17 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
Fluorene	39	19	5.4	1,500	196
Indeno(1,2,3-cd)pyrene	39	29	14	3,500	464
Naphthalene	39	19	9.5	380	78
Pentachlorophenol	39	1	110	110	110
Phenanthrene	39	33	7.9	13,000	1,185
Phenol	39	1	19	19	19
Pyrene	39	37	7.9	13,000	1,427

4.1.2.15 EU18

EU18 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
2-Methylnaphthalene	8	6	13	1,900	614
3&4-Methylphenol	5	1	71	71	71
Acenaphthene	8	3	38	520	203
Acenaphthylene	7	2	380	1,100	740
Acetophenone	5	3	38	150	83
Anthracene	8	5	4.9	2,100	485
Benzaldehyde	5	2	92	200	146
Benzo(a)anthracene	8	6	11	6,900	1,459
Benzo(a)pyrene	8	5	14	6,000	1,575
Benzo(b)fluoranthene	8	6	12	8,500	1,957
Benzo(g,h,i)perylene	8	4	10	3,900	1,433
Benzo(k)fluoranthene	8	3	110	2,900	1,270
Biphenyl (1,1-Biphenyl)	5	2	74	160	117
bis(2-Ethylhexyl)phthalate (DEHP)	8	3	92	240	151
Butyl benzylphthalate (BBP)	8	1	33	33	33
Carbazole	7	3	52	870	333
Chrysene	8	8	14	6,700	1,115
Dibenz(a,h)anthracene	8	3	58	1,200	556
Dibenzofuran	8	3	170	530	390
Di-n-butylphthalate (DBP)	8	1	27	27	27
Fluoranthene	8	6	14	15,000	2,945
Fluorene	8	4	4.4	860	244
Indeno(1,2,3-cd)pyrene	8	3	160	3,800	1,753
Naphthalene	8	6	20	1,400	453
Phenanthrene	8	8	22	7,900	1,251
Phenol	7	2	46	48	47
Pyrene	8	6	14	12,000	2,488

4.1.2.16 EU19

EU19 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
2,4-Dimethylphenol	55	2	33	100	67
2-Chlorophenol	55	1	50	50	50
2-Methylnaphthalene	63	51	4.1	29,000	1,218
2-Methylphenol	55	3	15	42	26
3&4-Methylphenol	33	5	28	490	185
Acenaphthene	63	28	5.8	120,000	4,441
Acenaphthylene	54	25	7.7	3,100	190
Acetophenone	47	15	19	3,900	461
Anthracene	63	44	4.6	200,000	4,817
Benzaldehyde	47	13	16	420	137
Benzo(a)anthracene	63	48	16	390,000	8,811
Benzo(a)pyrene	63	46	13	340,000	7,947
Benzo(b)fluoranthene	63	49	21	460,000	10,243
Benzo(g,h,i)perylene	63	43	11	210,000	5,343
Benzo(k)fluoranthene	63	40	12	170,000	4,749
Biphenyl (1,1-Biphenyl)	47	23	13	11,000	627
bis(2-Ethylhexyl)phthalate (DEHP)	64	35	24	560,000	16,889
Butyl benzylphthalate (BBP)	63	12	25	45,000	5,737
Carbazole	54	9	22	140,000	15,671
Chrysene	63	51	11	350,000	7,496
Dibenz(a,h)anthracene	63	24	12	66,000	2,987
Dibenzofuran	63	34	10	71,000	2,334
Diethyl phthalate	54	5	43	9,700	2,102
Dimethyl phthalate	54	1	2,000	2,000	2,000
Di-n-butylphthalate (DBP)	63	17	18	1,500	232
Di-n-octyl phthalate (DnOP)	54	1	23	23	23
Fluoranthene	63	58	15	840,000	15,719
Fluorene	63	34	4.8	150,000	4,781
Indeno(1,2,3-cd)pyrene	63	42	8.1	190,000	4,974
Naphthalene	63	49	6.4	110,000	2,,724
N-Nitrosodiphenylamine	63	1	450	450	450
Phenanthrene	63	55	14	690,000	13,834
Phenol	55	8	25	1,400	311
Pyrene	63	58	15	670,000	12,492

4.1.3 Metals and Cyanide

Metals were detected in soil/fill samples collected from all exposure units but are variable in terms of the range of detected concentrations. The following table identifies the detection frequency and the maximum individual concentration in soil/fill samples, for the overall OU1 samples set.

Table 4.19 Summary of Metals Results for OU1 Soil/Fill Samples

Metals	Detection frequency	Maximum detected concentration (mg/kg)
Aluminum	100.0%	16,000
Antimony	84.4%	120
Arsenic	99.7%	77
Barium	100.0%	2,300
Beryllium	95.9%	7
Cadmium	93.8%	54
Calcium	100.0%	410,000
Chromium	100.0%	380
Chromium III (trivalent)	100.0%	370
Chromium VI (hexavalent)	31.6%	16
Cobalt	99.7%	240
Copper	100.0%	191,000
Iron	100.0%	210,000
Lead	100.0%	13,,000
Magnesium	100.0%	97000
Manganese	100.0%	2,200
Mercury	81.6%	2
Nickel	99.4%	420
Potassium	97.5%	2,600
Selenium	81.9%	14
Silver	77.5%	8
Sodium	80.3%	3,110
Thallium	80.2%	5
Vanadium	100.0%	170
Zinc	100.0%	14,000

As shown in the above table, most of the metals were detected in a high proportion (up to 100%) of the samples. The information for detected parameters (number of samples, number of detects, minimum detected concentration, maximum detected concentration, and average detected concentration) for each exposure unit (reproduced from Tables 4.1 to 4.16) are listed in the following subsections.

4.1.3.1 EU1

EU1 – detected parameters	# of samples	# of detects	Min. detect (mg/kg)	Max. detect (mg/kg)	Average of detects (mg/kg)
Aluminum	14	14	3,000	11,000	6,296
Antimony	14	12	0.14	2.4	0.48
Arsenic	14	14	3.6	29	9.8

EU1 – detected parameters	# of samples	# of detects	Min. detect (mg/kg)	Max. detect (mg/kg)	Average of detects (mg/kg)
Barium	14	14	42	170	77
Beryllium	14	14	0.22	2.5	0.64
Cadmium	14	14	0.21	2.2	0.50
Calcium	14	14	45,000	190,000	93,443
Chromium	15	15	6.8	17	11
Chromium III (trivalent)	11	11	6.8	16	11
Chromium VI (hexavalent)	11	4	0.31	0.8	0.5
Cobalt	14	14	2.7	9.6	5.6
Copper	14	14	12.6	44	26
Iron	14	14	7,000	22,000	12,864
Lead	14	14	18.4	61	35
Magnesium	14	14	18,000	47,000	29,086
Manganese	14	14	240	624	361
Mercury	14	14	0.027	0.27	0.10
Nickel	14	14	7.7	25	14
Potassium	14	14	450	1,200	811
Selenium	14	12	0.6	3.7	1.2
Silver	14	12	0.024	0.089	0.052
Sodium	14	9	72	290	131
Thallium	14	13	0.12	0.82	0.27
Vanadium	14	14	12	37	20
Zinc	14	14	42	98.7	65
Cyanide (total)	14	1	0.13	0.13	0.13

4.1.3.2 EU2

EU2 – detected parameters	# of samples	# of detects	Min. detect (mg/kg)	Max. detect (mg/kg)	Average of detects (mg/kg)
Aluminum	8	8	8,500	17,000	12,738
Antimony	8	8	0.18	1.5	0.6
Arsenic	8	8	7.2	14	9.9
Barium	8	8	72	180	115
Beryllium	8	8	0.42	0.71	0.55
Cadmium	8	8	0.19	0.48	0.28
Calcium	8	8	3,600	56,000	25,700
Chromium	8	8	13	24	19
Chromium III (trivalent)	8	8	13	24	19
Chromium VI (hexavalent)	8	2	0.29	0.29	0.29
Cobalt	8	8	5.6	8.8	7.6
Copper	8	8	12	31	20
Iron	8	8	15,000	26,000	21,125
Lead	8	8	14	46	23
Magnesium	8	8	3,300	33,000	14,263
Manganese	8	8	450	730	600
Mercury	8	8	0.025	0.067	0.042

EU2 – detected parameters	# of samples	# of detects	Min. detect (mg/kg)	Max. detect (mg/kg)	Average of detects (mg/kg)
Nickel	8	8	13	23	18
Potassium	8	8	850	1,900	1,259
Selenium	8	8	0.16	1.6	0.91
Silver	8	8	0.038	0.12	0.07
Sodium	8	4	64	110	82
Thallium	8	8	0.071	0.26	0.17
Vanadium	8	8	25	43	33
Zinc	8	8	44	120	78

4.1.3.3 EU3

EU3 – detected parameters	# of samples	# of detects	Min. detect (mg/kg)	Max. detect (mg/kg)	Average of detects (mg/kg)
Aluminum	15	15	1,500	9,800	6,186
Antimony	15	12	0.13	5	1
Arsenic	15	15	1.8	17.7	7.3
Barium	15	15	17.8	389	100
Beryllium	15	15	0.099	2.9	0.6
Cadmium	15	14	0.091	15	1.3
Calcium	15	15	5,650	220,000	89,777
Chromium	15	15	4.5	280	31
Chromium III (trivalent)	13	13	4.5	280	34
Chromium VI (hexavalent)	13	4	0.31	1	1
Cobalt	15	15	1.2	7.9	4.5
Copper	15	15	6.7	96	21
Iron	15	15	6,040	54,000	15,535
Lead	15	15	6.4	1,000	124
Magnesium	15	15	1,290	65,000	33,659
Manganese	15	15	84.9	6,000	763
Mercury	15	11	0.022	0.61	0.15
Nickel	15	15	7.4	28	12
Potassium	15	15	365	1,200	704
Selenium	15	14	0.24	3.7	0.78
Silver	15	12	0.021	1.9	0.23
Sodium	15	15	61	620	172
Thallium	15	13	0.083	0.54	0.18
Vanadium	15	15	5.2	170	27
Zinc	15	15	10.3	1,600	164
Cyanide (total)	15	3	0.24	0.52	0.34

4.1.3.4 EU4

EU4 – detected parameters	# of samples	# of detects	Min. detect (mg/kg)	Max. detect (mg/kg)	Average of detects (mg/kg)
Aluminum	15	15	2,400	15,000	7,167
Antimony	15	12	0.16	12	1.4
Arsenic	15	15	0.74	56	17
Barium	15	15	9.6	420	133
Beryllium	15	15	0.19	5.2	1.6
Cadmium	15	14	0.11	0.92	0.28
Calcium	15	15	5,400	410,000	79,367
Chromium	15	15	2.9	21	12
Chromium III (trivalent)	13	13	2.1	21	12
Chromium VI (hexavalent)	13	9	0.51	1.3	0.84
Cobalt	15	15	0.77	27	8.2
Copper	15	15	3.5	92	29
Iron	15	15	1,200	19,000	12,193
Lead	15	15	2.1	130	29
Magnesium	15	15	1,100	51,000	17,027
Manganese	15	15	37	620	279
Mercury	15	13	0.026	0.45	0.15
Nickel	15	15	7.5	51	20
Potassium	15	15	180	2,200	910
Selenium	15	14	0.15	10	2.3
Silver	15	11	0.032	1.9	0.25
Sodium	15	12	59	400	155
Thallium	15	13	0.083	1.5	0.53
Vanadium	15	15	9	70	28
Zinc	15	15	6.5	280	64
Cyanide (total)	15	6	0.22	1.3	0.62

4.1.3.5 EU5 to EU8

EU5 to EU8 – detected parameters	# of samples	# of detects	Min. detect (mg/kg)	Max. detect (mg/kg)	Average of detects (mg/kg)
Aluminum	23	23	1,600	12,000	6,170
Antimony	23	20	0.16	5.4	0.67
Arsenic	23	23	4.2	59	12
Barium	23	23	41	1,000	142
Beryllium	23	23	0.19	4.1	0.88
Cadmium	23	22	0.057	0.74	0.36
Calcium	23	23	1,900	320,000	73,617
Chromium	23	23	4.7	140	25
Chromium III (trivalent)	23	23	3.9	140	24
Chromium VI (hexavalent)	23	9	0.29	7.5	1.5
Cobalt	23	23	2.4	12	5.6
Copper	23	23	9.9	960	78

EU5 to EU8 – detected parameters	# of samples	# of detects	Min. detect (mg/kg)	Max. detect (mg/kg)	Average of detects (mg/kg)
Iron	23	23	4,300	23,000	12,578
Lead	23	23	1.7	270	53
Magnesium	23	23	340	55,000	25,390
Manganese	23	23	31	1,000	382
Mercury	23	20	0.024	0.5	0.1
Nickel	23	23	8.2	700	65
Potassium	23	23	200	2,200	789
Selenium	23	22	0.24	6.3	1.2
Silver	23	21	0.031	0.52	0.11
Sodium	23	23	68	350	160
Thallium	23	22	0.063	2.7	0.36
Vanadium	23	23	10	45	24
Zinc	23	23	4.9	260	92
Cyanide (total)	23	12	0.22	0.83	0.39

4.1.3.6 EU9

EU9 – detected parameters	# of samples	# of detects	Min. detect (mg/kg)	Max. detect (mg/kg)	Average of detects (mg/kg)
Aluminum	12	12	3,100	9,300	5,698
Antimony	12	11	0.21	3	1
Arsenic	12	12	4.1	16	9.1
Barium	12	12	35.8	280	116
Beryllium	12	11	0.37	2.3	0.85
Cadmium	12	12	0.21	2.6	0.74
Calcium	12	12	46,000	140,000	91,167
Chromium	12	12	6.4	89	22
Chromium III (trivalent)	8	8	11	89	28
Chromium VI (hexavalent)	8	1	0.42	0.42	0.42
Cobalt	12	12	3.5	9.8	5.4
Copper	12	12	12	4,700	725
Iron	12	12	6,900	59,000	16,995
Lead	12	12	12.5	680	142
Magnesium	12	12	19,000	41,000	30,967
Manganese	12	12	230	810	409
Mercury	12	11	0.027	0.26	0.10
Nickel	12	12	8.1	47	18
Potassium	12	12	390	1,100	729
Selenium	12	10	0.33	1.4	0.73
Silver	12	10	0.04	0.81	0.20
Sodium	12	8	78	240	151
Thallium	12	11	0.1	0.53	0.2
Vanadium	12	12	12.3	60	22
Zinc	12	12	38	2,000	339
Cyanide (total)	11	3	0.23	7.1	2.6

4.1.3.7 EU10

EU10 – detected parameters	# of samples	# of detects	Min. detect (mg/kg)	Max. detect (mg/kg)	Average of detects (mg/kg)
Aluminum	14	14	2,000	12,000	6,536
Antimony	14	12	0.25	2	1
Arsenic	14	14	4	27	10
Barium	14	14	20	690	123
Beryllium	14	14	0.25	2.8	0.71
Cadmium	14	14	0.12	0.94	0.38
Calcium	14	14	1400	140,000	47,029
Chromium	14	14	6.2	80	24
Chromium III (trivalent)	14	14	6.2	80	24
Chromium VI (hexavalent)	14	5	0.3	0.88	0.5
Cobalt	14	14	2.6	8.9	5.9
Copper	14	14	8.1	92	43
Iron	14	14	7,400	47,000	20,736
Lead	14	14	4.5	140	49
Magnesium	14	14	610	43,000	15,536
Manganese	14	14	210	890	403
Mercury	14	12	0.024	0.27	0.09
Nickel	14	14	7.4	41	19
Potassium	14	14	140	1,300	797
Selenium	14	14	0.32	2.3	0.86
Silver	14	13	0.036	0.23	0.10
Sodium	14	12	55	640	155
Thallium	14	14	0.089	0.38	0.20
Vanadium	14	14	4.6	36	20
Zinc	14	14	31	270	95
Cyanide (total)	14	7	0.077	7.6	1.3

4.1.3.8 EU11

EU11 – detected parameters	# of samples	# of detects	Min. detect (mg/kg)	Max. detect (mg/kg)	Average of detects (mg/kg)
Aluminum	20	20	1,240	14,000	5,403
Antimony	20	15	0.19	2.8	0.8
Arsenic	20	20	2.7	45	9.7
Barium	20	20	12.7	440	92
Beryllium	20	19	0.051	6.5	0.7
Cadmium	20	18	0.057	19	1.5
Calcium	20	20	580	162,000	72,019
Chromium	21	21	2.4	33	13
Chromium III (trivalent)	13	13	7.1	32	14
Chromium VI (hexavalent)	13	3	0.32	0.69	0.54
Cobalt	20	20	1.5	22	5.3
Copper	20	20	6	410	67

EU11 – detected parameters	# of samples	# of detects	Min. detect (mg/kg)	Max. detect (mg/kg)	Average of detects (mg/kg)
Iron	20	20	4,060	63,700	16,391
Lead	20	20	2.5	160	49
Magnesium	20	20	550	83,000	29,119
Manganese	20	20	46	734	361
Mercury	20	18	0.023	0.85	0.18
Nickel	20	20	4	36	16
Potassium	20	20	170	1,600	656
Selenium	20	13	0.17	7.3	1.6
Silver	20	14	0.029	0.44	0.10
Sodium	20	17	78	883	282
Thallium	20	13	0.12	1.4	0.29
Vanadium	20	20	4.6	72	18
Zinc	20	20	16.4	1,200	128
Cyanide (total)	20	5	0.13	0.51	0.30

4.1.3.9 EU12

EU12 – detected parameters	# of samples	# of detects	Min. detect (mg/kg)	Max. detect (mg/kg)	Average of detects (mg/kg)
Aluminum	15	15	840	10,000	4,195
Antimony	15	15	0.12	2.1	0.9
Arsenic	15	15	1.7	51.2	16
Barium	15	15	14	761	229
Beryllium	15	14	0.11	1.5	0.7
Cadmium	15	10	0.09	2.1	0.6
Calcium	15	15	740	130,000	33,648
Chromium	15	15	7	83	19
Chromium III (trivalent)	12	12	7	83	20
Cobalt	15	15	0.76	7.1	4.7
Copper	15	15	11	220	46
Iron	15	15	4,400	38,000	11,031
Lead	15	15	8	180	45
Magnesium	15	15	325	55,000	16,612
Manganese	15	15	13.5	2,600	388
Mercury	15	9	0.018	0.41	0.11
Nickel	15	15	8.2	39	16
Potassium	15	14	86	1,300	604
Selenium	15	14	0.14	7.7	2.2
Silver	15	12	0.021	0.21	0.08
Sodium	15	9	85	700	226
Thallium	15	10	0.14	1.1	0.37
Vanadium	15	15	1.6	49	21
Zinc	15	15	12.1	440	76.5
Cyanide (total)	15	5	0.074	1.5	0.7

4.1.3.10 EU13

EU13 – detected parameters	# of samples	# of detects	Min. detect (mg/kg)	Max. detect (mg/kg)	Average of detects (mg/kg)
Aluminum	16	16	1,700	14,000	6,231
Antimony	16	15	0.23	1,400	98
Arsenic	16	16	3.6	70	23
Barium	16	16	44	1,800	454
Beryllium	16	16	0.15	6	1.7
Cadmium	16	15	0.1	30	3.9
Calcium	16	16	1200	120,000	34,169
Chromium	17	17	3.5	370	48
Chromium III (trivalent)	15	15	8.5	370	52
Chromium VI (hexavalent)	15	2	0.84	1.4	1.1
Cobalt	16	16	2.2	24	8.6
Copper	16	16	12	3300	586
Iron	16	16	4,800	180,000	31,225
Lead	16	16	2.9	26,000	2,124
Magnesium	16	16	290	38,000	11,673
Manganese	16	16	19	2,300	498
Mercury	16	15	0.031	3.2	0.39
Nickel	16	16	6	310	55
Potassium	16	14	320	1,400	762
Selenium	16	16	0.16	4	2
Silver	16	16	0.018	28	3.2
Sodium	16	14	80	1,500	422
Thallium	16	15	0.11	2	1
Vanadium	16	16	5	130	32
Zinc	16	16	14	3,400	697
Cyanide (total)	16	9	0.051	4.1	1.4

4.1.3.11 EU14

EU14 – detected parameters	# of samples	# of detects	Min. detect (mg/kg)	Max. detect (mg/kg)	Average of detects (mg/kg)
Aluminum	15	15	2,100	9,200	6,139
Antimony	15	14	1.2	13	4.8
Arsenic	15	15	1.5	35	16
Barium	15	15	10.1	3,100	736
Beryllium	15	14	0.19	3.3	1.6
Cadmium	15	15	0.15	13	4.4
Calcium	15	15	1670	140,000	61,405
Chromium	15	15	5.2	200	58
Chromium III (trivalent)	9	9	5.1	200	73
Chromium VI (hexavalent)	9	5	0.55	1.2	0.86
Cobalt	15	15	2.3	17	9.0
Copper	15	15	7.2	2,400	620

EU14 – detected parameters	# of samples	# of detects	Min. detect (mg/kg)	Max. detect (mg/kg)	Average of detects (mg/kg)
Iron	15	15	5,820	71,000	31,675
Lead	15	15	4.6	4,200	869
Magnesium	15	15	652	63,000	21,393
Manganese	15	15	88.1	880	346
Mercury	15	13	0.12	0.62	0.30
Nickel	15	15	6.8	110	42
Potassium	15	15	313	1,300	727
Selenium	15	13	0.32	7.2	3.0
Silver	15	10	0.072	6.5	1.6
Sodium	15	14	106	596	280
Thallium	15	12	0.11	0.98	0.37
Vanadium	15	15	8.4	46	26
Zinc	15	15	23.2	3,000	971
Cyanide (total)	15	8	0.27	13	2.6

4.1.3.12 EU15

EU15 – detected parameters	# of samples	# of detects	Min. detect (mg/kg)	Max. detect (mg/kg)	Average of detects (mg/kg)
Aluminum	19	19	2,800	21,700	8,366
Antimony	19	18	0.23	70.1	8.7
Arsenic	20	20	4.7	54	18
Barium	19	19	19.9	3,500	722
Beryllium	19	18	0.28	5.8	1.5
Cadmium	19	19	0.2	16	2.7
Calcium	19	19	1,500	130,000	51,958
Chromium	19	19	7.8	1,080	92
Chromium III (trivalent)	14	14	9	210	38
Chromium VI (hexavalent)	14	7	0.38	0.99	0.77
Cobalt	19	19	3.2	317	27
Copper	19	19	9.6	2,900	462
Iron	19	19	8,800	110,000	29,072
Lead	20	20	4.3	17,700	1,404
Magnesium	19	19	380	54,000	19,955
Manganese	19	19	34	1,100	453
Mercury	19	16	0.021	6.1	0.70
Nickel	19	19	9.1	150	42
Potassium	19	19	400	1,680	884
Selenium	19	18	0.37	21	3.4
Silver	19	18	0.036	8.2	1.4
Sodium	19	17	64	2,970	490
Thallium	19	18	0.075	1.4	0.38
Vanadium	19	19	10	73	29
Zinc	19	19	31	19,600	1,864
Cyanide (total)	19	5	0.4	41	10

4.1.3.13 EU16

EU16 – detected parameters	# of samples	# of detects	Min. detect (mg/kg)	Max. detect (mg/kg)	Average of detects (mg/kg)
Aluminum	23	23	2,140	20,700	6,756
Antimony	23	21	0.41	191	14
Arsenic	23	23	2.9	120	21
Barium	23	23	23.7	7,810	1,212
Beryllium	23	21	0.23	6.9	1.3
Cadmium	23	22	0.28	64	11
Calcium	23	23	2,600	146,000	51,380
Chromium	23	23	5.2	320	86
Chromium III (trivalent)	10	10	24	320	125
Chromium VI (hexavalent)	10	3	1	1.7	1.3
Cobalt	23	23	2.5	37	12
Copper	23	23	13.4	7,340	1,297
Iron	23	23	5,700	210,000	47,968
Lead	23	23	9.4	16,000	1,733
Magnesium	23	23	722	97,000	22,391
Manganese	23	23	37	1,500	456
Mercury	23	20	0.03	3.9	0.72
Nickel	23	23	6.5	860	136
Potassium	23	23	262	2,360	849
Selenium	23	16	0.52	38	4.7
Silver	23	19	0.1	5	2
Sodium	23	22	110	1,510	536
Thallium	23	15	0.086	2.4	0.40
Vanadium	23	23	8.2	79	25
Zinc	23	23	26.9	19,000	1,947
Cyanide (total)	22	18	0.12	11	2.6

4.1.3.14 EU17

EU17 – detected parameters	# of samples	# of detects	Min. detect (mg/kg)	Max. detect (mg/kg)	Average of detects (mg/kg)
Aluminum	39	39	1,200	14,800	6,477
Antimony	39	35	0.14	669	40
Arsenic	39	39	3.5	57.3	14
Barium	39	39	17.9	4,370	491
Beryllium	39	36	0.058	4	1
Cadmium	39	38	0.11	46.1	6.6
Calcium	39	39	7,780	217,000	62,451
Chromium	39	39	3.2	138	29
Chromium III (trivalent)	11	11	8.6	99	32
Chromium VI (hexavalent)	11	3	0.31	0.72	0.46
Cobalt	39	39	2	67	11
Copper	39	39	8.1	43,400	2,004

EU17 – detected parameters	# of samples	# of detects	Min. detect (mg/kg)	Max. detect (mg/kg)	Average of detects (mg/kg)
Iron	39	39	6,340	135,000	23,132
Lead	39	39	5.4	14,100	794
Magnesium	39	39	1,750	84,800	23,632
Manganese	39	39	80.3	1,490	437
Mercury	39	32	0.016	2.2	0.25
Nickel	39	39	5.8	475	58
Potassium	39	39	277	2,150	873
Selenium	39	22	0.29	20.1	2.1
Silver	39	26	0.022	5.5	1.1
Sodium	39	28	65	3,110	415
Thallium	39	26	0.085	2.4	0.37
Vanadium	39	39	5	51.8	21
Zinc	39	39	22.8	21,900	1,212
Cyanide (total)	36	17	0.19	13	2.3

4.1.3.15 EU18

EU18 – detected parameters	# of samples	# of detects	Min. detect (mg/kg)	Max. detect (mg/kg)	Average of detects (mg/kg)
Aluminum	8	8	1,140	7,600	3,906
Antimony	8	5	0.21	3.4	1.4
Arsenic	8	7	1.6	41	14
Barium	8	8	6.3	310	101
Beryllium	8	5	0.061	5.8	2.0
Cadmium	8	6	0.13	1.2	0.72
Calcium	8	8	590	45,000	13,433
Chromium	8	8	8.5	52	26
Chromium III (trivalent)	5	5	17	52	33
Chromium VI (hexavalent)	5	2	0.56	0.91	0.74
Cobalt	8	7	1.4	16	6.3
Copper	8	8	34	210	97
Iron	8	8	9,700	47,000	21,475
Lead	8	8	6.4	170	58
Magnesium	8	8	340	18,000	5,844
Manganese	8	8	120	1,400	425
Mercury	8	3	0.097	0.4	0.3
Nickel	8	8	11.3	51	27
Potassium	8	8	81	1,500	551
Selenium	8	6	0.23	6.3	2.5
Silver	8	5	0.082	0.35	0.19
Sodium	8	8	44	390	228
Thallium	8	5	0.89	2.4	1.5
Vanadium	8	8	0.62	60	16
Zinc	8	8	18	550	155
Cyanide (total)	7	3	0.31	0.94	0.60

4.1.3.16 EU19

EU19 – detected parameters	# of samples	# of detects	Min. detect (mg/kg)	Max. detect (mg/kg)	Average of detects (mg/kg)
Aluminum	64	64	1,050	16,000	5,766
Antimony	64	45	0.18	120	15
Arsenic	64	64	2.4	77.2	18
Barium	64	64	15	2,300	354
Beryllium	64	64	0.088	5.8	1.3
Cadmium	64	59	0.069	54	5.8
Calcium	64	64	970	120,000	31,543
Chromium	70	70	2.5	380	50
Chromium III (trivalent)	17	17	6.2	300	70
Chromium VI (hexavalent)	17	3	5	16	9
Cobalt	64	64	2.4	240	13
Copper	64	64	7.9	191,000	3,636
Iron	64	64	1,860	210,000	29,272
Lead	64	64	3.7	13,000	984
Magnesium	64	64	294	45,000	12,160
Manganese	64	64	6.9	2,200	389
Mercury	64	47	0.023	1.5	0.20
Nickel	64	64	4.5	420	66
Potassium	64	63	160	2,600	785
Selenium	64	49	0.22	14	3.3
Silver	64	39	0.024	7.6	1.2
Sodium	64	41	43.7	3,000	390
Thallium	64	50	0.091	4.5	0.7
Vanadium	64	64	4.5	170	28
Zinc	64	64	7.7	14,000	987
Cyanide (total)	55	20	0.084	120	7.4

4.1.4 Polychlorinated Biphenyls (PCBs)

PCBs were detected in soil/fill samples collected from all exposure units with one exception (EU2). The following table identifies the number of detected parameters (aroclors) and the maximum individual PCB concentration in soil/fill samples.

Table 4.20 Summary of PCB Results for OU1 Soil/Fill Samples

Area and Exposure Unit	# of detected parameters	Maximum detected concentration (µg/kg)
Southern Area:		
EU1	2	16,000
EU2	0	--
EU3	2	1,300
EU4	2	210
EU5 to EU8	3	400

Table 4.20 Summary of PCB Results for OU1 Soil/Fill Samples

Area and Exposure Unit	# of detected parameters	Maximum detected concentration (µg/kg)
Central Area:		
EU9	1	170
EU10	1	760
EU11	2	910
EU12	1	210
EU13	3	140,000
EU18	3	4,200
EU19	4	930,000
Northern Area:		
EU14	4	14,000
EU15	5	8,600
EU16	4	29,000
EU17	3	8,100

As shown in the above table, the data distribution indicates that the number of PCB parameters and the detected concentrations are greatest in parts of the Central and Northern areas of OU1, e.g., EU13 and EU19. The information for detected PCB parameters (number of samples, number of detects, minimum detected concentration, maximum detected concentration, and average detected concentration) for each exposure unit (reproduced from Tables 4.1 to 4.16) are listed in the following subsections.

4.1.4.1 EU1

EU1 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
Aroclor-1254 (PCB-1254)	14	5	33	16,000	3,275
Aroclor-1260 (PCB-1260)	14	1	24	24	24

4.1.4.2 EU2

PCBs were not detected in samples collected from EU2.

4.1.4.3 EU3

EU3 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
Aroclor-1242 (PCB-1242)	15	1	980	980	980
Aroclor-1254 (PCB-1254)	15	2	70	1,300	685

4.1.4.4 EU4

EU4 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
Aroclor-1248 (PCB-1248)	15	1	59	59	59

EU4 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
Aroclor-1254 (PCB-1254)	15	5	27	210	83

4.1.4.5 EU5 to EU8

EU5 to EU8 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
Aroclor-1248 (PCB-1248)	23	2	74	400	237
Aroclor-1254 (PCB-1254)	23	4	54	160	95
Aroclor-1260 (PCB-1260)	23	1	74	74	74

4.1.4.6 EU9

EU9 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
Aroclor-1254 (PCB-1254)	12	3	41	170	87

4.1.4.7 EU10

EU10 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
Aroclor-1254 (PCB-1254)	14	4	40	760	348

4.1.4.8 EU11

EU11 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
Aroclor-1254 (PCB-1254)	20	7	20	910	232
Aroclor-1260 (PCB-1260)	20	2	23	36	30

4.1.4.9 EU12

EU12 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
Aroclor-1254 (PCB-1254)	15	2	150	210	180

4.1.4.10 EU13

EU13 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
Aroclor-1242 (PCB-1242)	21	2	44	380	212
Aroclor-1254 (PCB-1254)	21	13	49	140,000	13,095
Aroclor-1260 (PCB-1260)	21	2	54	110	82

4.1.4.11 EU14

EU14 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
Aroclor-1242 (PCB-1242)	19	2	370	490	430
Aroclor-1248 (PCB-1248)	19	1	430	430	430
Aroclor-1254 (PCB-1254)	19	8	54	3,700	799
Aroclor-1260 (PCB-1260)	19	4	250	14,000	3,783

4.1.4.12 EU15

EU15 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
Aroclor-1232 (PCB-1232)	22	1	1,100	1,100	1,100
Aroclor-1242 (PCB-1242)	22	2	230	1,100	665
Aroclor-1248 (PCB-1248)	22	3	1,300	8,600	3,933
Aroclor-1254 (PCB-1254)	22	6	40	1,,800	508
Aroclor-1260 (PCB-1260)	22	5	44	1100	459

4.1.4.13 EU16

EU16 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
Aroclor-1242 (PCB-1242)	25	9	53	29,000	6,291
Aroclor-1248 (PCB-1248)	25	2	59	160	110
Aroclor-1254 (PCB-1254)	25	16	23	10,000	1,837
Aroclor-1260 (PCB-1260)	25	2	58	63	61

4.1.4.14 EU17

EU17 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
Aroclor-1248 (PCB-1248)	40	1	8,100	8,100	8,100
Aroclor-1254 (PCB-1254)	40	18	35	1,700	338
Aroclor-1260 (PCB-1260)	40	6	23	1,300	398

4.1.4.15 EU18

EU18 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
Aroclor-1248 (PCB-1248)	8	1	4,200	4,200	4,200
Aroclor-1254 (PCB-1254)	7	2	130	240	185
Aroclor-1260 (PCB-1260)	8	2	200	2,800	1,500

4.1.4.16 EU19

EU19 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
Aroclor-1242 (PCB-1242)	55	8	51	930,000	117,188
Aroclor-1248 (PCB-1248)	64	6	360	2,700	1,382
Aroclor-1254 (PCB-1254)	55	28	19	450,000	17,933
Aroclor-1260 (PCB-1260)	64	15	23	1,400	424

4.1.5 Pesticides

Pesticides were detected in soil/fill samples collected from all exposure units. The following table identifies the number of detected parameters and the maximum individual pesticide concentration in soil/fill samples.

Table 4.21 Summary of Pesticides Results for OU1 Soil/Fill Samples

Area and Exposure Unit	# of detected parameters	Maximum detected concentration (µg/kg)
Southern Area:		
EU1	8	130
EU2	1	3.5
EU3	9	36
EU4	7	21
EU5 to EU8	9	14
Central Area:		
EU9	6	20
EU10	11	37
EU11	5	43
EU12	6	27
EU13	7	760
EU18	6	6.6
EU19	15	3,400
Northern Area:		
EU14	8	270
EU15	8	54
EU16	4	130
EU17	12	820

As shown in the above table, the data distribution indicates that the number of pesticide parameters is variable within OU1, and the detected concentrations are greatest in EU19. The information for detected pesticide parameters (number of samples, number of detects, minimum detected concentration, maximum detected concentration, and average detected concentration) for each exposure unit (reproduced from Tables 4.1 to 4.16) are listed in the following subsections.

4.1.5.1 EU1

EU1 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
4,4'-DDE	14	1	12	12	12
4,4'-DDT	14	1	1.2	1.2	1.2
alpha-Chlordane	14	4	3.1	32	16
Endosulfan I	14	1	2.1	2.1	2.1
Endrin	14	1	130	130	130
Endrin aldehyde	14	1	2.1	2.1	2.1
gamma-Chlordane	14	5	1.9	27	15
Heptachlor epoxide	14	2	3.8	130	67

4.1.5.2 EU2

EU2 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
4,4'-DDT	8	2	1.5	3.5	2.5

4.1.5.3 EU3

EU3 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
4,4'-DDD	15	1	2.8	2.8	2.8
4,4'-DDE	15	2	2.1	28	15
4,4'-DDT	15	1	1.4	1.4	1.4
alpha-Chlordane	15	2	4	36	20
Dieldrin	15	1	2	2	2
Endosulfan II	15	1	4.3	4.3	4.3
gamma-BHC (lindane)	15	1	3.8	3.8	3.8
gamma-Chlordane	15	2	3.6	30	17
Heptachlor epoxide	15	2	2	8	5

4.1.5.4 EU4

EU4 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
4,4'-DDD	15	3	1.8	2.8	2.2
4,4'-DDE	15	1	8.3	8.3	8.3
4,4'-DDT	15	4	2.3	4.6	3.3
alpha-Chlordane	15	1	2.5	2.5	2.5
Endrin aldehyde	15	1	1.9	1.9	1.9
Endrin ketone	15	2	1.4	21	11
gamma-Chlordane	15	2	2.7	2.8	2.8

4.1.5.5 EU5 to EU8

EU5 to EU8 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
4,4'-DDD	23	2	3.7	14	8.9
4,4'-DDE	23	1	2.5	2.5	2.5
4,4'-DDT	23	4	1.2	3.1	1.9
alpha-Chlordane	23	1	2.3	2.3	2.3
beta-BHC	23	2	1.9	4.5	3.2
Endosulfan II	23	1	3.7	3.7	3.7
Endrin aldehyde	23	1	1.8	1.8	1.8
Endrin ketone	23	1	3.6	3.6	3.6
Heptachlor epoxide	23	1	2.1	2.1	2.1

4.1.5.6 EU9

EU9 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
4,4'-DDD	11	1	20	20	20
4,4'-DDE	11	1	2.7	2.7	2.7
4,4'-DDT	11	2	1.7	4.7	3.2
Endrin aldehyde	11	2	1.6	4.1	2.9
gamma-Chlordane	11	1	1.8	1.8	1.8
Methoxychlor	11	1	1.8	1.8	1.8

4.1.5.7 EU10

EU10 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
4,4'-DDD	14	1	4.3	4.3	4.3
4,4'-DDE	14	2	5.2	30	18
4,4'-DDT	14	3	2.9	13	7.5
alpha-BHC	14	2	1.9	13	7.5
alpha-Chlordane	14	1	1.7	1.7	1.7
beta-BHC	14	3	2.2	7.3	4.9
Dieldrin	14	2	3.3	37	20
Endrin aldehyde	14	1	2.4	2.4	2.4
gamma-Chlordane	14	2	1.8	1.8	1.8
Heptachlor epoxide	14	1	4.2	4.2	4.2
Methoxychlor	14	1	1.5	1.5	1.5

4.1.5.8 EU11

EU11 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
4,4'-DDE	20	2	24	43	34
4,4'-DDT	20	1	3.1	3.1	3.1
Endrin aldehyde	20	1	5.4	5.4	5.4

EU11 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
gamma-Chlordane	20	1	29	29	29
Methoxychlor	20	1	2.7	2.7	2.7

4.1.5.9 EU12

EU12 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
4,4'-DDD	15	1	5	5	5
4,4'-DDE	15	3	1.4	27	11
alpha-BHC	15	1	10	10	10
beta-BHC	15	2	8.1	20	14
Endrin ketone	15	1	1.1	1.1	1.1
Methoxychlor	15	2	1.5	5.5	3.5

4.1.5.10 EU13

EU13 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
4,4'-DDD	16	3	34	43	38
4,4'-DDE	16	1	280	280	280
4,4'-DDT	16	4	3.5	760	209
Endrin aldehyde	16	1	280	280	280
Endrin ketone	16	1	17	17	17
Heptachlor epoxide	16	1	75	75	75
Methoxychlor	16	1	7.1	7.1	7.1

4.1.5.11 EU14

EU14 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
4,4'-DDD	15	1	9.5	9.5	9.5
4,4'-DDE	15	6	9.4	220	69
4,4'-DDT	15	4	21	74	52
Dieldrin	15	2	12	270	141
Endrin aldehyde	15	1	28	28	28
Endrin ketone	15	3	19	96	48
gamma-Chlordane	15	3	2.6	180	70
Heptachlor epoxide	15	1	27	27	27

4.1.5.12 EU15

EU15 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
4,4'-DDD	20	1	2	2	2
4,4'-DDE	20	3	1.6	20	8.0

EU15 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
4,4'-DDT	20	3	5.1	38	16
Dieldrin	20	1	14	14	14
Endrin	20	1	17	17	17
Endrin aldehyde	20	4	2.1	54	29
Heptachlor epoxide	20	1	9.6	9.6	9.6
Methoxychlor	20	1	20	20	20

4.1.5.13 EU16

EU16 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
4,4'-DDE	22	2	28	93	61
4,4'-DDT	22	3	6.8	110	59
delta-BHC	22	1	130	130	130
Dieldrin	22	2	38	68	53

4.1.5.14 EU17

EU17 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
4,4'-DDD	39	1	8.6	8.6	8.6
4,4'-DDE	39	10	0.44	52	25
4,4'-DDT	39	9	0.71	820	109
alpha-Chlordane	39	2	12	13	13
Dieldrin	39	7	7.2	65	23
Endrin	39	1	2.6	2.6	2.6
Endrin aldehyde	39	4	1.7	5.1	3.5
Endrin ketone	39	1	89	89	89
gamma-BHC (lindane)	39	1	18	18	18
gamma-Chlordane	39	4	1.4	30	14
Heptachlor epoxide	39	2	2.1	3.5	2.8
Methoxychlor	39	8	0.94	19	5.2

4.1.5.15 EU18

EU18 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
Endosulfan II	7	1	4	4	4
Endrin	7	1	2.3	2.3	2.3
Endrin aldehyde	7	2	6.6	6.6	6.6
gamma-Chlordane	7	1	0.96	0.96	0.96
Heptachlor epoxide	7	1	0.49	0.49	0.49
Methoxychlor	7	1	1.8	1.8	1.8

4.1.5.16 EU19

EU19 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
4,4'-DDD	55	3	4.4	28	13
4,4'-DDE	55	13	2.6	69	20
4,4'-DDT	55	5	0.6	23	9
alpha-Chlordane	55	1	5.4	5.4	5.4
Dieldrin	55	2	24	560	292
Endosulfan I	55	1	1.5	1.5	1.5
Endosulfan II	55	1	22	22	22
Endosulfan sulfate	55	1	1.7	1.7	1.7
Endrin	55	5	1.4	140	55
Endrin aldehyde	55	4	2.2	110	42
Endrin ketone	55	1	7.5	7.5	7.5
gamma-BHC (lindane)	55	3	0.42	3,400	1,134
gamma-Chlordane	55	5	0.35	43	17
Heptachlor epoxide	55	2	0.78	34	17
Methoxychlor	55	7	2.1	19	7.3

4.1.6 Additional Parameters

Additional parameters that were analyzed at a reduced frequency include asbestos, dioxins and furans, fractionated lead, and herbicides.

4.1.6.1 Asbestos

GHD collected 118 samples of soil/fill from OU1 for asbestos determination; 78 samples from boreholes and test trenches based on field observations to identify material with possible asbestos content; and 40 samples of surficial soil/fill (up to 1-foot BGS) for general characterization of surface soil within OU1. Sample locations for asbestos analysis are shown on Figure 3.17.

Table 4.22 includes a summary of the asbestos testing results. This includes samples discussed above and results from earlier investigations. As shown in the table, asbestos (chrysotile) was identified in some samples of both surface and subsurface soil. The maximum concentration in the surface samples was 0.5%, i.e., less than the 1% criterion for identification of ACM. As shown in Table 4.22, four subsurface samples contain asbestos concentrations greater than 1%, listed below.

Sample location	Sample depth (feet BGS)	Testing result	Location
BH116-18	11 to 13	2% chrysotile	Southeast part of EU11
BH139-18	13 to 15	10% chrysotile	West side of EU16
BH173-17	17.5 to 19.5	8% chrysotile	Northwest part of EU19
VAS-5	7	60% chrysotile	Northeast part of EU16

4.1.6.2 Dioxins and Furans

GHD collected 49 samples (including duplicates) for dioxins and furans analysis from specific areas where the presence of potentially impacted material (ash, cinders) was identified within the central

and northern areas. This includes 45 sample locations within the following exposure units: EU9 (one), EU10 (one), EU11 (one), EU12 (one), EU13 (one), EU14 (one), EU15 (four), EU16 (11), EU17 (three), EU18 (five), and EU19 (16). This biased sampling approach resulted in collection of eight surface soil/fill samples (less than 2 feet BGS), and 41 subsurface soil samples (greater than 2 feet BGS). The sample locations are shown on Figure 3.18.

The analytical results are included in the tables for individual exposure units in Appendix C and Appendix D. The results for detected parameters are also included in Table 4.23, which also provides calculated total toxicity equivalent values. The maximum calculated Total Equivalency (TEQ) in all samples is 827 picograms per gram (pg/g).

4.1.6.3 Fractionated Lead

GHD collected 30 soil/fill samples for fractionated lead analysis. The samples selected for fractionated lead analysis are a subset of the samples analyzed for lead analysis in 2017/2018, which were retained by the laboratory pending further instructions. The sample selection for fractionated lead analysis is based on the range of detected lead concentrations from the initial analysis, and the spatial distribution of sample locations for the various exposure units within OU1. Sample locations for fractionated lead analysis are shown on Figure 3.19. The analytical results are provided in Table 4.24.

As shown in the table, the fractionated lead results include separate results for the coarse fraction and the fine fraction (<150 µm), which are used by the laboratory to calculate a total lead result based on the relative proportions of coarse- and fine-fraction material. Overall, this produces four separate results:

1. Lead concentration without fractionation from initial analysis
2. Lead concentration in coarse fraction
3. Lead concentration in fine fraction
4. Calculated lead concentration (from coarse fraction and fine fraction results)

GHD's observations based on review of the lead results shown in Table 4.24 are summarized as follows:

- The lead concentrations from initial sample analysis range from 20 mg/kg to 13,000 mg/kg. The coarse fraction concentrations range from 18 mg/kg to 47,000 mg/kg and the fine fraction concentrations range from 25 mg/kg to 28,000 mg/kg. The calculated lead concentrations (based on coarse and fine fraction results) range from 22 mg/kg to 43,000 mg/kg.
- Comparison of the lead concentrations from initial sample analysis to the calculated lead concentrations indicates variability. Similar values (within one order of magnitude) are observed for the majority of samples. Notable exceptions include SS-50 (in EU14) and SS-59 (in EU13) where the calculated values are significantly greater than the initial results. Conversely, the initial results for SS146 (EU03) and SS-22 (EU19) are elevated compared to the calculated total results.

- Comparison of the coarse fraction and fine fraction results indicates that the fine fraction concentrations are greater than the coarse fraction concentrations for 22 samples, while only six samples showed the opposite condition.

4.1.6.4 Herbicides

GHD collected 97 samples of soil/fill for herbicides testing. This includes 26 surface soil samples collected in 2018; and other samples collected from multiple locations (boreholes, test trenches and test pits) in earlier investigations. Sample locations for herbicides analysis are shown on Figure 3.20. The analytical results are provided in Table 4.25.

In summary, one herbicide (2,4,5-TP (Silvex)) was detected in one OU1 soil/fill sample collected in 2008 from one test trench (TT-3, 5 feet deep). The detected concentration in the sample was 4.6 µg/kg (estimated).

4.2 Other Soil Samples

4.2.1 Floodplain Soil

GHD collected 26 soil samples (including duplicates) from 12 locations within the floodplain area adjacent to OU1 (see Figure 2.3b) and 18 samples (including duplicates) from eight locations within the floodplain area upstream of OU1 (see Figure 2.3c). Soil samples were collected from two depth intervals at each location, i.e., upper 0.5 feet and 0.5 to 2 feet BGS. All floodplain soil samples were analyzed for VOCs, SVOCs, metals, cyanide, PCBs, pesticides, and herbicides.

Analytical results for floodplain soil samples are provided in the following tables:

- Appendix E – Table 1: floodplain soil adjacent to OU1 (results for all parameters)
- Appendix E – Table 2: floodplain soil adjacent to OU1 (results for detected parameters)
- Appendix E – Table 3: upstream floodplain soil (results for all parameters)
- Appendix E – Table 4: upstream floodplain soil (results for detected parameters)

Each table in Appendix E also shows statistical information for each parameter (number of samples, number of detects, minimum detected value, maximum detected value, and average detected concentration). Table 4.26 and Table 4.27 provide information for each detected parameter (number of samples, number of detects, minimum detected concentration, maximum detected concentration and average detected concentration) for locations adjacent to OU1 and upstream locations, respectively (reproduced from the tables included in Appendix E). The following provides an overview of the analytical results for each group of parameters.

4.2.1.1 VOCs

The information for detected parameters (number of samples, number of detects, minimum detected concentration, maximum detected concentration, and average detected concentration) for each floodplain area (reproduced from Tables 4.26 and 4.27) are listed below.

Floodplain adjacent to OU1 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
1,4-Dichlorobenzene	26	1	1.2	1.2	1.2
Acetone	26	6	22	140	67
Methylene chloride	26	1	21	21	21
Toluene	26	1	1.3	1.3	1.3

VOCs were not detected in samples collected in upstream floodplain soil samples.

As shown above, VOCs were infrequently detected in floodplain soil samples collected adjacent to OU1, with a maximum individual VOC concentration of 140 µg/kg.

4.2.1.2 SVOCs

The information for detected parameters (number of samples, number of detects, minimum detected concentration, maximum detected concentration, and average detected concentration) for each floodplain area (reproduced from Tables 4.26 and 4.27) are listed below.

Floodplain adjacent to OU1 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
2-Methylnaphthalene	26	25	5.7	110	26
Acenaphthene	26	23	4.5	150	41
Acenaphthylene	26	26	5.5	80	34
Anthracene	26	26	6.6	1,500	141
Benzaldehyde	26	1	49	49	49
Benzo(a)anthracene	26	26	38	1,900	469
Benzo(a)pyrene	26	26	43	1,600	509
Benzo(b)fluoranthene	26	26	50	2,700	853
Benzo(g,h,i)perylene	26	26	20	810	298
Benzo(k)fluoranthene	26	26	23	1,100	301
bis(2-Ethylhexyl)phthalate (DEHP)	26	18	68	160	117
Butyl benzylphthalate (BBP)	26	3	28	110	62
Carbazole	26	18	32	280	102
Chrysene	26	26	40	1,900	562
Dibenz(a,h)anthracene	26	16	17	190	97
Dibenzofuran	26	14	16	100	46
Di-n-butylphthalate (DBP)	26	13	26	59	37
Fluoranthene	26	26	54	4,600	1,182
Fluorene	26	24	4.7	260	46
Indeno(1,2,3-cd)pyrene	26	26	17	690	278
Naphthalene	26	24	5	99	26
Phenanthrene	26	26	18	2,500	596
Phenol	26	1	15	15	15
Pyrene	26	26	68	3,900	934

Floodplain upstream - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
2-Methylnaphthalene	18	17	4.3	27	14
Acenaphthene	18	14	9.6	38	18
Acenaphthylene	18	18	6.2	63	30
Anthracene	18	18	6.9	130	49
Benzaldehyde	18	3	34	85	55
Benzo(a)anthracene	18	18	52	500	311
Benzo(a)pyrene	18	18	63	540	352
Benzo(b)fluoranthene	18	18	110	990	588
Benzo(g,h,i)perylene	18	18	54	390	267
Benzo(k)fluoranthene	18	18	30	380	212
bis(2-Ethylhexyl)phthalate (DEHP)	18	15	76	240	116
Butyl benzylphthalate (BBP)	18	2	30	38	34
Carbazole	18	16	29	84	42
Chrysene	18	18	71	600	400
Dibenz(a,h)anthracene	18	14	20	110	69
Dibenzofuran	18	4	16	22	20
Di-n-butylphthalate (DBP)	18	6	28	30	29
Fluoranthene	18	18	120	1,300	697
Fluorene	18	15	10	37	18
Indeno(1,2,3-cd)pyrene	18	18	48	350	235
Naphthalene	18	15	8.9	22	13
Phenanthrene	18	18	43	610	256
Pyrene	18	18	98	820	552

As shown above, SVOCs were detected in multiple floodplain soil samples collected from adjacent to OU1 and upstream. The results for detected parameters for each area are summarized below.

Adjacent to OU1

- Multiple SVOCs (24 total) were detected.
- The most frequently detected SVOCs include various PAHs: 2-methylnaphthalene; acenaphthene; acenaphthylene; anthracene; benzo(a)anthracene; benzo(a)pyrene; benzo(b)fluoranthene; benzo(g,h,i)perylene; benzo(k)fluoranthene; chrysene; dibenz(a,h)anthracene; fluoranthene; fluorene; indeno(1,2,3-cd) pyrene; naphthalene; phenanthrene; and pyrene. Twelve of these were detected in all 26 samples. The other PAHs were detected in at least 23 of 26 samples, with the exception of dibenz(a,h)anthracene (16 of 26 samples).
- Other detected SVOCs include the following: benzaldehyde (one sample); bis(2-ethylhexyl)phthalate (18 samples); butyl benzylphthalate (three samples); carbazole (18 samples); dibenzofuran 14 samples); di-n-butylphthalate (13 samples); and phenol (one sample).
- SVOCs with the greatest detected concentrations (maximum detected value equal to or greater than 1,000 µg/kg) include the following: anthracene; benzo(a)anthracene; benzo(a)pyrene; benzo(b)fluoranthene; benzo(k)fluoranthene; chrysene; fluoranthene; phenanthrene; and pyrene.

- SVOCs with maximum detected concentrations equal to or greater than 100 µg/kg (and less than 1,000 µg/kg) include the following: 2-methylnaphthalene; acenaphthene; benzo(g,h,i)perylene; bis(2-ethylhexyl)phthalate; butyl benzylphthalate; carbazole; dibenz(a.h)anthracene; dibenzofuran; fluorene; and indeno(1,2,3-cd)pyrene. The detected concentrations for all other SVOCs are less than 100 µg/kg.

Upstream

- Multiple SVOCs (23 total) were detected, consistent with the results for samples collected the floodplain adjacent to OU1.
- The most frequently detected SVOCs include various PAHs: 2-methylnaphthalene; acenaphthene; acenaphthylene; anthracene; benzo(a)anthracene; benzo(a)pyrene; benzo(b)fluoranthene; benzo(g,h,i)perylene; benzo(k)fluoranthene; chrysene; dibenz(a.h)anthracene; fluoranthene; fluorene; indeno(1,2,3-cd) pyrene; naphthalene; phenanthrene; and pyrene. Twelve of these were detected in all 18 samples. The other PAHs were detected in at least 14 of 18 samples.
- Other detected SVOCs include the following: benzaldehyde (three samples); bis(2-ethylhexyl)phthalate (15 samples); butyl benzylphthalate (two samples); carbazole (16 samples); dibenzofuran four samples); and di-n-butylphthalate (six samples).
- One SVOC (fluoranthene) was detected with a maximum concentration greater than 1,000 µg/kg.
- SVOCs with maximum detected concentrations equal to or greater than 100 µg/kg (and less than 1,000 µg/kg) include the following: anthracene; benzo(a)anthracene; benzo(a)pyrene; benzo(b)fluoranthene; benzo(g,h,i)perylene; benzo(k)fluoranthene; bis(2-ethylhexyl)phthalate; chrysene; dibenz(a.h)anthracene; indeno(1,2,3-cd) pyrene; phenanthrene; and pyrene.

4.2.1.3 Metals and Cyanide

The information for detected parameters (number of samples, number of detects, minimum detected concentration, maximum detected concentration, and average detected concentration) for each floodplain area (reproduced from Tables 4.26 and 4.27) are listed below.

Floodplain adjacent to OU1 - detected parameters	# of samples	# of detects	Min. detect (mg/kg)	Max. detect (mg/kg)	Average of detects (mg/kg)
Aluminum	26	26	3,900	14,000	7,188
Antimony	26	26	0.13	1.3	0.35
Arsenic	26	26	4.7	12	7.7
Barium	26	26	61	160	110
Beryllium	26	25	0.3	0.83	0.5
Cadmium	26	26	0.2	2.5	0.8
Calcium	26	26	42,000	100,000	78,385
Chromium	26	26	7.6	54	20
Chromium III (trivalent)	26	26	7.3	53	19
Chromium VI (hexavalent)	26	6	0.36	0.76	0.51
Cobalt	26	26	3.3	9.7	5.6
Copper	26	26	9.7	60	26
Iron	26	26	8,700	25,000	14,665

Floodplain adjacent to OU1 - detected parameters	# of samples	# of detects	Min. detect (mg/kg)	Max. detect (mg/kg)	Average of detects (mg/kg)
Lead	26	26	11	92	39
Magnesium	26	26	18,000	35,000	24,500
Manganese	26	26	320	690	487
Mercury	26	25	0.035	0.16	0.08
Nickel	26	26	9.1	32	17
Potassium	26	26	460	1,900	1,026
Selenium	26	26	0.49	1.6	1.0
Silver	26	26	0.036	1.3	0.34
Sodium	26	26	82	130	104
Thallium	26	26	0.11	0.49	0.24
Vanadium	26	26	12	33	19
Zinc	26	26	28	180	88
Cyanide (total)	26	1	0.27	0.27	0.27

Floodplain upstream - detected parameters	# of samples	# of detects	Min. detect (mg/kg)	Max. detect (mg/kg)	Average of detects (mg/kg)
Aluminum	18	18	6,400	13,000	10,400
Antimony	18	18	0.19	0.35	0.27
Arsenic	18	18	6.7	10	8.9
Barium	18	18	73	150	133
Beryllium	18	18	0.32	0.77	0.59
Cadmium	18	18	0.33	2	1
Calcium	18	18	20,000	82,000	59,833
Chromium	18	18	15	45	26
Cobalt	18	18	5	13	8
Copper	18	18	15	54	32
Iron	18	18	13,000	23,000	19,389
Lead	18	18	26	77	46
Magnesium	18	18	8,900	32,000	22,328
Manganese	18	18	350	1,000	596
Mercury	18	18	0.041	0.26	0.12
Nickel	18	18	15	30	23
Potassium	18	18	870	1,600	1,393
Selenium	18	18	0.34	0.83	0.67
Silver	18	18	0.06	1.2	0.52
Sodium	18	17	61	110	95
Thallium	18	18	0.19	0.4	0.3
Vanadium	18	18	17	30	24
Zinc	18	18	60	150	111
Cyanide (total)	18	3	0.26	0.29	0.27

As shown above, metals were detected in multiple floodplain soil samples collected from adjacent to OU1 and upstream. The results for detected parameters for each area are summarized below.

Adjacent to OU1

- Multiple metals (23 total) were detected in all samples (26 of 26) with the following exceptions; beryllium and mercury were detected in 25 of 26 samples; and hexavalent chromium was detected in six of 26 samples.
- Metals with the greatest detected concentrations (maximum detected value equal to or greater than 10,000 mg/kg) include the following: aluminum, calcium, iron, and magnesium.
- Metals with maximum detected concentrations equal to or greater than 100 mg/kg (and less than 10,000 mg/kg) include the following: barium, manganese, potassium, sodium, and zinc. The detected concentrations for all other metals are less than 100 mg/kg.
- Cyanide was detected in one sample (0.27 mg/kg).

Upstream

- Multiple metals (23 total) were detected, consistent with the results for samples collected from the floodplain adjacent to OU1. Each of the metals were detected in all samples (18 of 18) with the exception of sodium, which was detected in 17 of 18 samples. Chromium speciation was not conducted for the upstream samples.
- Metals with the greatest detected concentrations (maximum detected value equal to or greater than 10,000 mg/kg) include aluminum, calcium, iron, and magnesium.
- Metals with maximum detected concentrations equal to or greater than 100 mg/kg (and less than 10,000 mg/kg) include: barium, manganese, potassium, sodium, and zinc. The detected concentrations for all other metals are less than 100 mg/kg.
- Cyanide was detected in three samples (up to 0.29 mg/kg).

4.2.1.4 PCBs

The information for detected parameters (number of samples, number of detects, minimum detected concentration, maximum detected concentration, and average detected concentration) for each floodplain area (reproduced from Tables 4.26 and 4.27) are listed below.

Floodplain adjacent to OU1 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
Aroclor-1248 (PCB-1248)	26	1	4,600	4,600	4,600
Aroclor-1254 (PCB-1254)	26	20	39	860	171

Floodplain upstream - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
Aroclor-1254 (PCB-1254)	18	16	72	3,300	712

As shown above, PCBs were detected in multiple floodplain soil samples collected from adjacent to OU1 and upstream. The results for detected parameters for each area are summarized below.

Adjacent to OU1

- Aroclor-1248 was detected in one of 26 samples, at a concentration of 4,600 µg/kg (4.6 mg/kg).

- Aroclor-1254 was detected in 20 of 26 samples, with a maximum detected value of 860 µg/kg (0.86 mg/kg).

Upstream

- Aroclor-1254 was detected in 16 of 18 samples, with a maximum detected value of 3,300 µg/kg (3.3 mg/kg).

4.2.1.5 Pesticides

The information for detected parameters (number of samples, number of detects, minimum detected concentration, maximum detected concentration, and average detected concentration) for each floodplain area (reproduced from Tables 4.26 and 4.27) are listed below.

Floodplain adjacent to OU1 - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
4,4'-DDE	25	2	2.4	2.5	2.5
4,4'-DDT	25	1	17	17	17
alpha-Chlordane	26	2	2.5	11	6.8
Endosulfan sulfate	25	1	2.9	2.9	2.9
Endrin aldehyde	25	2	2	8.9	5.5
gamma-BHC (lindane)	25	1	29	29	29
gamma-Chlordane	25	1	1.5	1.5	1.5
Heptachlor epoxide	26	1	2.8	2.8	2.8
Toxaphene	26	1	51	51	51

Floodplain upstream - detected parameters	# of samples	# of detects	Min. detect (µg/kg)	Max. detect (µg/kg)	Average of detects (µg/kg)
4,4'-DDD	18	1	4.1	4.1	4.1
4,4'-DDE	18	2	2	4.5	3
4,4'-DDT	18	4	1.9	3.6	2.6
Endrin aldehyde	18	1	2	2	2

As shown above, pesticides were infrequently detected in floodplain soil samples collected from adjacent to OU1 and upstream. The results for detected parameters for each area are summarized below.

Adjacent to OU1

- The detected pesticides include the following: 4,4'-DDE; 4,4'-DDT; alpha-chlordane; endosulfan sulfate; endrin aldehyde; gamma-BHC (lindane); gamma-chlordane; heptachlor epoxide; and toxaphene.
- The detection frequency for pesticides was low, i.e. none of the pesticides were detected in more than two samples (of 25 or 26).
- The maximum detected concentration value was 51 µg/kg (for toxaphene).

Upstream

- The detected pesticides include the following: 4,4'-DDD; 4,4'-DDE; 4,4'-DDT; and endrin aldehyde.
- The detection frequency for pesticides was low, i.e., none of the pesticides were detected in more than four samples (of 18).
- The maximum detected concentration value was 4.5 µg/kg (for 4,4'-DDE).

4.2.1.6 Herbicides

The results for detected parameters for each area are summarized below.

Adjacent to OU1

- One parameter (2,4,5-TP (Silvex)) was detected in one sample (73 µg/kg).

Upstream

- Herbicides were not detected in any samples.

4.2.2 Background Soil

GHD collected nine soil samples (including duplicates) from eight locations within Ora Everett Park (see Figure 2.4b) to assist with determining background conditions. Soil samples were collected from 0 to 2 feet deep at each location. All soil samples were analyzed for select SVOCs and metals.

Table 4.28 provides analytical results for background soil samples and information for each parameter (number of samples, number of detects, minimum detected value, maximum detected value, and average detected concentration). The following provides an overview of the analytical results for each group of parameters.

4.2.2.1 SVOCs

The results for detected parameters are summarized below.

- Multiple SVOCs (14 total) were detected.
- The most frequently detected SVOCs include various PAHs: 2-methylnaphthalene; benzo(a)anthracene; benzo(a)pyrene; benzo(b)fluoranthene; benzo(k)fluoranthene; chrysene; fluoranthene; indeno(1,2,3-cd) pyrene; and pyrene. Each of these was detected in at least seven (of nine) samples.
- Other less frequently detected SVOCs (four samples or fewer) include the following: acenaphthene; anthracene; dibenz(a,h)anthracene; fluorene; and naphthalene.
- The maximum detected concentration of individual parameters is 310 µg/kg (for fluoranthene).

4.2.2.2 Metals

The results for detected parameters are summarized below.

- Multiple metals (22 total) were detected. Each of the metals were detected in all samples (9 of 9).

- Metals with the greatest detected concentrations (maximum detected value equal to or greater than 10,000 mg/kg) include aluminum, calcium, and iron.
- Metals with maximum detected concentrations equal to or greater than 100 mg/kg (and less than 10,000 mg/kg) include: magnesium, manganese, and potassium. The detected concentrations for all other metals are less than 100 mg/kg.

5. Soil/Fill Data Assessment

5.1 OU1 Soil/Fill

GHD conducted an initial assessment of the OU1 soil/fill data involving comparison of analytical results to human health screening criteria. The purpose of the initial assessment is to identify preliminary chemicals of potential concern (COPCs) for each EU. In addition, GHD calculated exposure point concentrations (EPCs) for each COPC to facilitate review of data distribution and identify potential data gaps. The following sections describe the procedure used for this assessment.

5.1.1 Data Selection

The analytical data for OU1 soil/fill samples were compiled and categorized for each individual EU, with the following modifications:

- EU3 and EU4 were examined both separately and combined, based on property ownership and land use.
- EU5, EU6, EU7, and EU8 were combined based on property ownership and land use.
- EU18 was combined with EU19 for purposes of human health screening, since EU18 is wholly located within EU19.

The soil/fill analytical data were then further categorized by sample depth. All samples collected within the upper 2 feet BGS were grouped as "surface soil". If the sample range had a mid-point of 2 feet BGS or shallower, it was grouped into the surface soil data set. All samples collected within the upper 15 feet BGS were grouped as "soil", which comprises "surface soil" and "subsurface soil".

5.1.2 Identification of Preliminary COPCs

The preliminary COPCs selection process is presented herein using the format identified by USEPA guidance, i.e., RAGS Part D Table 2. Every parameter that was detected in at least one sample was included in the assessment. Data qualified as estimated (J value) are treated as detected concentrations at the estimated concentration reported by the laboratory.

The following media were screened for preliminary COPC identification:

- Surface soil: 0 to 2 feet BGS (all exposure units)
- Soil (surface and subsurface soil): 0 to 15 feet BGS (all exposure units except EU1, EU2, EU17, EU18, EU19)

For each medium, the parameters with maximum concentrations greater than their respective screening value are identified as preliminary COPCs. The maximum detected concentrations were

compared to the Regional Screening Levels (RSLs) for Superfund (USEPA, 2018), based on a target cancer risk of 1×10^{-6} and a target hazard quotient (HQ) of 0.1 to identify the preliminary COPCs within the surface soil and soil data sets. Residential soil RSLs were conservatively applied for screening. The USEPA Residential RSLs consider ingestion, dermal contact, and inhalation exposure pathways. Naturally occurring nutrients, such as calcium, magnesium, potassium, and sodium, are not considered as preliminary COPCs.

The TEQ of the dioxins and furans congeners were calculated using the toxicity equivalence factors (TEF) as defined by the World Health Organization (Van den Berg et al., 2006). Dioxins and furans congeners that were non-detect were assumed as half of the method detection limit (MDL) (ND = 0.5*MDL) or ND = 0 for the calculation of the dioxins and furans TEQ.

The total chromium analytical data, that were not speciated into either trivalent or hexavalent chromium, were adjusted to chromium (III) and chromium (VI) based on the conservative 6:1 ratio used in the USEPA RSL User Guide (USEPA, 2018).

Those analytes without applicable screening values due to lack of toxicity information have been identified as preliminary COPCs and appropriate surrogate analytes have been chosen based on structural and toxicological similarity for evaluation as listed below.

Parameter	Surrogate screening parameter
1,3-dichlorobenzene	1,2-dichlorobenzene
Methyl cyclohexane	Cyclohexane
3&4-methylphenol	3-methylphenol
Acenaphthylene	Acenaphthene
Benzo(g,h,i)perylene	Pyrene
Phenanthrene	Pyrene
Dimethylphthalate	Diethylphthalate

Surrogate chemical parameters were chosen due to their similarity in molecular structure and thus assumed toxicity. Pyrene was used as a surrogate for benzo(g,h,i)perylene and phenanthrene given that these analytes are all non-carcinogenic PAHs.

The screening information for individual exposure units is provided in Appendix F, Tables 1 through 28. The results are discussed in Section 5.1.4.

5.1.3 Calculation of Exposure Point Concentrations

An EPC is a conservative estimate of the contaminant concentration at an exposure point or in an exposure area. EPCs were calculated for each analyte selected as a preliminary COPC via the screening process described above. EPCs are calculated for surface soil and soil (surface and subsurface).

EPCs are presented in RAGS Part D Table 3 format, which includes the maximum detected concentration, the arithmetic mean concentration, and the 95% upper confidence limit (UCL) of the mean (Reasonable Maximum Exposure [RME]), calculated using USEPA's ProUCL software Version 5.1 (2016). The RME values have been conservatively based on the 95% UCL of the mean.

ProUCL 5.1 contains statistical methods to address data sets both with and without non-detects and computes the 95% UCL for a given data set by a variety of alternative statistical approaches

(including several approaches that do not require the assumption of normality or log-normality). ProUCL 5.1 then identifies specific UCL values as being the most appropriate for that particular data set. For EPCs based on a 95% UCL, the distribution type and specific 95% UCL type selected by the ProUCL software have been indicated in the EPC table. Non-detect and duplicate results were handled as follows:

- The method detection limit (MDL) was considered for non-detect results in the calculation of 95% UCL values.
- Arithmetic mean calculations used the MDL to account for non-detect results.
- Only data deemed usable based on the data validation process were included.
- Duplicate samples were averaged to calculate EPCs.
- In cases where more than one 95% UCL is calculated by ProUCL, the greater of the two values was assigned as the EPC for that analyte.

For data sets containing less than four distinct detected values, ProUCL could not calculate a 95% UCL and therefore the maximum detected concentration was used as the EPC.

The EPC calculations for individual exposure units are summarized in Appendix F, Tables 29 through 56. The results are discussed in Section 5.1.4.

5.1.4 Summary of Results

Preliminary COPCs were identified for each EU based on RSLs for residential soil exposure and EPCs were calculated as described in the preceding sections. The information for preliminary COPCs (maximum detected concentration, detection frequency, screening value, and EPC) for each exposure unit and medium (reproduced from Appendix F) are listed in the following subsections. EPC values that are greater than the maximum detected concentrations are shown in red font.

In summary, preliminary COPCs were identified for organic and inorganic parameters for all exposure units with the exception of EU2 (inorganics only). Based on review of the information provided for each exposure unit GHD identified four exposure units (EU3, EU4, EU9, and EU13) where individual EPCs are notably elevated with respect to maximum detected concentrations, as follows:

- In EU3 surface soil, EPCs for several parameters (13 SVOCs and two metals) exceed the respective maximum detected concentrations due to data distribution. In EU4 surface soil, EPCs for some SVOCs and metals marginally exceed the respective maximum detected concentrations. When EU3 and EU4 datasets are combined, none of the EPCs exceed the maximum concentrations.
- In EU9 surface soil, EPCs for six SVOCs exceed the respective maximum detected concentrations due to data distribution.
- In EU13 surface soil, EPCs for one VOC and three SVOCs exceed the respective maximum detected concentrations due to data distribution. In addition, the EPC for one PCB parameter significantly exceeds the maximum detected concentration.

Preliminary COPCs for each exposure unit are listed in each subsection below.

5.1.4.1 EU1

EU1 – preliminary COPCs	Max. detect	Units	Detection frequency	Screening value	EPC
Surface Soil (0 to 2 feet BGS)					
Benzo(a)anthracene	3,400	µg/kg	9/9	1,100	2,400
Benzo(a)pyrene	3,100	µg/kg	9/9	110	2,300
Benzo(b)fluoranthene	3,900	µg/kg	9/9	1,100	2,900
Carbazole	330	µg/kg	7/9	--	230
Dibenz(a,h)anthracene	570	µg/kg	7/9	110	570
Indeno(1,2,3-cd)pyrene	1,900	µg/kg	9/9	1,100	1,500
Aluminum	8,400 J	mg/kg	9/9	7,700	6,700
Arsenic	29	mg/kg	9/9	0.68	14
Chromium VI (hexavalent)	2.3	mg/kg	4/9	0.3	1.1
Cobalt	9.6	mg/kg	9/9	2.3	6.3
Iron	16,000	mg/kg	9/9	5,500	14,000
Manganese	624 J	mg/kg	9/9	180	470
Thallium	0.82	mg/kg	8/9	0.078	0.5
PCB-1254	180	µg/kg	2/9	120	140

5.1.4.2 EU2

EU2 – preliminary COPCs	Max. detect	Units	Detection frequency	Screening value	EPC
Surface Soil (0 to 2 feet BGS)					
Aluminum	17,000	mg/kg	5/5	7,700	16,000
Arsenic	14	mg/kg	5/5	0.68	13
Cobalt	8.4	mg/kg	5/5	2.3	8.4
Iron	26,000	mg/kg	5/5	5,500	25,000
Manganese	730	mg/kg	5/5	180	710
Thallium	0.26	mg/kg	5/5	0.078	0.25
Vanadium	43	mg/kg	5/5	39	40

5.1.4.3 EU3

EU3 – preliminary COPCs	Max. detect	Units	Detection frequency	Screening value	EPC
Surface Soil (0 to 2 feet BGS)					
Benzo(a)anthracene	260,000	µg/kg	6/6	1,100	470,000
Benzo(a)pyrene	270,000	µg/kg	6/6	110	490,000
Benzo(b)fluoranthene	330,000	µg/kg	6/6	1,100	600,000
Benzo(k)fluoranthene	130,000	µg/kg	6/6	11,000	240,000
Carbazole	92,000	µg/kg	2/6	--	210,000
Chrysene	250,000	µg/kg	6/6	110,000	460,000
Dibenz(a,h)anthracene	39,000	µg/kg	4/6	110	140,000
Dibenzofuran	30,000	µg/kg	2/6	7,300	69,000
Fluoranthene	590,000	µg/kg	6/6	240,000	1,100,000
Indeno(1,2,3-cd)pyrene	120,000	µg/kg	6/6	1,100	220,000

EU3 – preliminary COPCs	Max. detect	Units	Detection frequency	Screening value	EPC
Naphthalene	18,000	µg/kg	4/6	3,800	66,000
Phenanthrene	480,000	µg/kg	6/6	180,000	880,000
Pyrene	450,000	µg/kg	6/6	180,000	820,000
Aluminum	9,800	mg/kg	6/6	7,700	8,000
Arsenic	9.4	mg/kg	6/6	0.68	8
Chromium VI (hexavalent)	0.85 J	mg/kg	2/6	0.3	0.86
Cobalt	7.9	mg/kg	6/6	2.3	6.4
Iron	54,000	mg/kg	6/6	5,500	51,000
Lead	1,000	mg/kg	6/6	400	1,800
Manganese	6,000	mg/kg	6/6	180	11,000
Thallium	0.25	mg/kg	5/6	0.078	0.22
Vanadium	170	mg/kg	6/6	39	150
Soil (0 to 15 feet BGS)					
Benzo(a)anthracene	260,000	µg/kg	13/14	1,100	200,000
Benzo(a)pyrene	270,000	µg/kg	13/14	110	210,000
Benzo(b)fluoranthene	330,000	µg/kg	13/14	1,100	260,000
Benzo(k)fluoranthene	130,000	µg/kg	12/14	11,000	100,000
Carbazole	92,000	µg/kg	4/14	--	68,000
Chrysene	250,000	µg/kg	13/14	110,000	200,000
Dibenz(a,h)anthracene	39,000	µg/kg	8/14	110	31,000
Dibenzofuran	30,000	µg/kg	4/14	7,300	22,000
Fluoranthene	590,000	µg/kg	13/14	240,000	460,000
Indeno(1,2,3 cd)pyrene	120,000	µg/kg	13/14	1,100	94,000
Naphthalene	18,000	µg/kg	9/14	3,800	14,000
Phenanthrene	480,000	µg/kg	13/14	180,000	380,000
Pyrene	450,000	µg/kg	13/14	180,000	350,000
Aluminum	9,800	mg/kg	14/14	7,700	7,200
Antimony	5.0 J	mg/kg	11/14	3.1	2.3
Arsenic	17.7	mg/kg	14/14	0.68	9
Cadmium	15	mg/kg	13/14	7.1	5.9
Chromium VI (hexavalent)	1.7	mg/kg	6/14	0.3	0.74
Cobalt	7.9	mg/kg	14/14	2.3	5.3
Iron	54,000	mg/kg	14/14	5,500	29,000
Lead	1,000	mg/kg	14/14	400	890
Manganese	6,000	mg/kg	14/14	180	2,600
Thallium	0.54	mg/kg	12/14	0.078	0.26
Vanadium	170	mg/kg	14/14	39	76
PCB-1242	980	µg/kg	1/14	230	980
PCB-1254	1,300	µg/kg	2/14	120	1,300

5.1.4.4 EU4

EU4 – preliminary COPCs	Max. detect	Units	Detection frequency	Screening value	EPC
Surface Soil (0 to 2 feet BGS)					
Benzo(a)pyrene	1,100	µg/kg	6/6	110	3,700

EU4 – preliminary COPCs	Max. detect	Units	Detection frequency	Screening value	EPC
Benzo(b)fluoranthene	1,300	µg/kg	6/6	1,100	4,600
Carbazole	130 J	µg/kg	1/6	--	130
Dibenz(a,h)anthracene	180	µg/kg	3/6	110	130
Aluminum	15,000 J	mg/kg	6/6	7,700	11,000
Antimony	12 J	mg/kg	6/6	3.1	22
Arsenic	50	mg/kg	6/6	0.68	75
Chromium VI (hexavalent)	1.3	mg/kg	4/6	0.3	0.87
Cobalt	27	mg/kg	6/6	2.3	28
Iron	18,000	mg/kg	6/6	5,500	16,000
Manganese	410	mg/kg	6/6	180	400
Thallium	1.3	mg/kg	6/6	0.078	1.7
Vanadium	61	mg/kg	6/6	39	59
Soil (0 to 15 feet BGS)					
Benzo(a)anthracene	1,200	µg/kg	13/14	1,100	730
Benzo(a)pyrene	1,100	µg/kg	13/14	110	680
Benzo(b)fluoranthene	1,300	µg/kg	13/14	1,100	850
Carbazole	400	µg/kg	4/14	--	110
Dibenz(a,h)anthracene	180	µg/kg	8/14	110	110
Aluminum	15,000 J	mg/kg	14/14	7,700	8,200
Antimony	12 J	mg/kg	11/14	3.1	4.9
Arsenic	56	mg/kg	14/14	0.68	36
Chromium VI (hexavalent)	1.5	mg/kg	10/14	0.3	0.99
Cobalt	27	mg/kg	14/14	2.3	13
Iron	19,000	mg/kg	14/14	5,500	14,000
Manganese	620	mg/kg	14/14	180	360
Thallium	1.5	mg/kg	12/14	0.078	0.81
Vanadium	70	mg/kg	14/14	39	46
PCB-1254	210	µg/kg	5/14	120	73

5.1.4.5 EU3 and EU4 (combined)

EU3 and EU4 – preliminary COPCs	Max. detect	Units	Detection frequency	Screening value	EPC
Surface Soil (0 to 2 feet BGS)					
Benzo(a)anthracene	260,000	µg/kg	12/12	1,100	240,000
Benzo(a)pyrene	270,000	µg/kg	12/12	110	250,000
Benzo(b)fluoranthene	330,000	µg/kg	12/12	1,100	300,000
Benzo(k)fluoranthene	130,000	µg/kg	11/12	11,000	120,000
Carbazole	92,000	µg/kg	3/12	--	24,000
Chrysene	250,000	µg/kg	12/12	110,000	230,000
Dibenz(a,h)anthracene	39,000	µg/kg	7/12	110	37,000
Dibenzofuran	30,000	µg/kg	5/12	7,300	29,000
Fluoranthene	590,000	µg/kg	12/12	240,000	540,000
Indeno(1,2,3-cd)pyrene	120,000	µg/kg	11/12	1,100	110,000
Naphthalene	18,000	µg/kg	10/12	3,800	17,000
Phenanthrene	480,000	µg/kg	12/12	180,000	440,000

EU3 and EU4 – preliminary COPCs	Max. detect	Units	Detection frequency	Screening value	EPC
Pyrene	450,000	µg/kg	12/12	180,000	410,000
Aluminum	15,000 J	mg/kg	12/12	7,700	8,500
Antimony	12 J	mg/kg	11/12	3.1	5.6
Arsenic	50	mg/kg	12/12	0.68	30
Chromium VI (hexavalent)	1.3	mg/kg	6/12	0.3	0.69
Cobalt	27	mg/kg	12/12	2.3	12
Iron	54,000	mg/kg	12/12	5,500	24,000
Lead	1,000	mg/kg	12/12	400	470
Manganese	6,000	mg/kg	12/12	180	2,900
Thallium	1.3	mg/kg	11/12	0.078	0.6
Vanadium	170	mg/kg	12/12	39	91
Soil (0 to 15 feet BGS)					
Benzo(a)anthracene	260,000	µg/kg	26/28	1,100	68,000
Benzo(a)pyrene	270,000	µg/kg	26/28	110	70,000
Benzo(b)fluoranthene	330,000	µg/kg	26/28	1,100	86,000
Benzo(k)fluoranthene	130,000	µg/kg	22/28	11,000	34,000
Carbazole	92,000	µg/kg	8/28	--	38,000
Chrysene	250,000	µg/kg	26/28	110,000	65,000
Dibenz(a,h)anthracene	39,000	µg/kg	16/28	110	10,000
Dibenzofuran	30,000	µg/kg	8/28	7,300	8,200
Fluoranthene	590,000	µg/kg	26/28	240,000	150,000
Indeno(1,2,3 cd)pyrene	120,000	µg/kg	23/28	1,100	31,000
Naphthalene	18,000	µg/kg	20/28	3,800	3,500
Phenanthrene	480,000	µg/kg	27/28	180,000	130,000
Pyrene	450,000	µg/kg	26/28	180,000	120,000
Aluminum	15,000 J	mg/kg	28/28	7,700	7,800
Antimony	12 J	mg/kg	22/28	3.1	2.9
Arsenic	56	mg/kg	28/28	0.68	22
Cadmium	15	mg/kg	26/28	7.1	3.1
Chromium VI (hexavalent)	1.7	mg/kg	16/28	0.3	0.8
Cobalt	27	mg/kg	28/28	2.3	7.9
Iron	54,000	mg/kg	28/28	5,500	21,000
Lead	1,000	mg/kg	28/28	400	250
Manganese	6,000	mg/kg	28/28	180	1,400
Thallium	1.5	mg/kg	24/28	0.078	0.41
Vanadium	170	mg/kg	28/28	39	52
PCB-1242	980	µg/kg	1/28	230	980
PCB-1254	1,300	µg/kg	7/28	120	280

5.1.4.6 EU5 through EU8

EU5 to EU8 – preliminary COPCs	Max. detect	Units	Detection frequency	Screening value	EPC
Surface Soil (0 to 2 feet BGS)					
Benzo(a)anthracene	1,900	µg/kg	12/12	1,100	960
Benzo(a)pyrene	1,600	µg/kg	12/12	110	970

EU5 to EU8 – preliminary COPCs	Max. detect	Units	Detection frequency	Screening value	EPC
Benzo(b)fluoranthene	2,100	µg/kg	12/12	1,100	1,400
Carbazole	320	µg/kg	5/12	--	170
Dibenz(a,h)anthracene	200	µg/kg	5/12	110	72
Aluminum	9,800	mg/kg	12/12	7,700	6,970
Arsenic	59	mg/kg	12/12	0.68	37
Chromium VI (hexavalent)	1.5	mg/kg	5/12	0.3	0.71
Cobalt	12	mg/kg	12/12	2.3	7.6
Copper	960	mg/kg	12/12	310	440
Iron	18,000	mg/kg	12/12	5,500	14,000
Manganese	950 J	mg/kg	12/12	180	460
Nickel	700	mg/kg	12/12	150	320
Thallium	2.7	mg/kg	12/12	0.078	1.2
Vanadium	45	mg/kg	12/12	39	32
PCB-1248	400	µg/kg	1/12	230	400
PCB-1254	160	µg/kg	3/12	120	160
Soil (0 to 15 feet BGS)					
Benzo(a)anthracene	1,900	µg/kg	20/21	1,100	630
Benzo(a)pyrene	1,600	µg/kg	21/21	110	620
Benzo(b)fluoranthene	2,100	µg/kg	21/21	1,100	860
Carbazole	320	µg/kg	8/21	--	110
Dibenz(a,h)anthracene	200	µg/kg	8/21	110	56
Aluminum	12,000	mg/kg	21/21	7,700	7,400
Antimony	5.4 J	mg/kg	18/21	3.1	0.81
Arsenic	59	mg/kg	21/21	0.68	25
Chromium VI (hexavalent)	7.5 J	mg/kg	9/21	0.3	1
Cobalt	12	mg/kg	21/21	2.3	6.7
Copper	960	mg/kg	21/21	310	280
Iron	23,000	mg/kg	21/21	5,500	15,000
Manganese	1,000	mg/kg	21/21	180	480
Nickel	700	mg/kg	21/21	150	240
Thallium	2.7	mg/kg	20/21	0.078	0.93
Vanadium	45	mg/kg	21/21	39	28
PCB-1248	400	µg/kg	2/21	230	150
PCB-1254	160	µg/kg	4/21	120	52

5.1.4.7 EU9

EU9 – preliminary COPCs	Max. detect	Units	Detection frequency	Screening value	EPC
Surface Soil (0 to 2 feet BGS)					
1,1-Dichloroethane	4.3 J	µg/kg	1/6	3.6	4.3
Benzo(a)anthracene	27,000	µg/kg	5/6	1,100	150,000
Benzo(a)pyrene	17,000	µg/kg	5/6	110	78,000
Benzo(b)fluoranthene	25,000	µg/kg	6/6	1,100	62,000
Carbazole	8,400	µg/kg	4/6	--	30,000
Dibenz(a,h)anthracene	2,700	µg/kg	5/6	110	11,000

EU9 – preliminary COPCs	Max. detect	Units	Detection frequency	Screening value	EPC
Indeno(1,2,3-cd)pyrene	7,600	µg/kg	5/6	1,100	26,000
Arsenic	15	mg/kg	6/6	0.68	13
Chromium VI (hexavalent)	1.9	mg/kg	2/6	0.3	2.1
Cobalt	6.8	mg/kg	6/6	2.3	5.9
Copper	3,700	mg/kg	6/6	310	4,500
Iron	24,000	mg/kg	6/6	5,500	19,000
Manganese	560	mg/kg	6/6	180	470
Thallium	0.53	mg/kg	6/6	0.078	0.39
Vanadium	60	mg/kg	6/6	39	41
PCB-1254	170	µg/kg	2/6	120	210
Soil (0 to 15 feet BGS)					
1,1-Dichloroethane	4.3 J	µg/kg	1/11	3.6	4.3
Benzo(a)anthracene	27,000	µg/kg	10/11	1,100	18,000
Benzo(a)pyrene	17,000	µg/kg	10/11	110	11,000
Benzo(b)fluoranthene	25,000	µg/kg	11/11	1,100	25,000
Carbazole	8,400	µg/kg	6/11	--	8,700
Dibenz(a,h)anthracene	2,700	µg/kg	8/11	110	1,800
Indeno(1,2,3-cd)pyrene	7,600	µg/kg	10/11	1,100	5,100
Aluminum	9,300	mg/kg	11/11	7,700	6,600
Arsenic	16	mg/kg	11/11	0.68	12
Chromium VI (hexavalent)	1.9	mg/kg	5/11	0.3	1.1
Cobalt	9.8	mg/kg	11/11	2.3	6.6
Copper	4700	mg/kg	11/11	310	5,900
Cyanide (total)	7.1	mg/kg	3/10	2.3	2.3
Iron	59,000	mg/kg	11/11	5,500	27,000
Lead	680	mg/kg	11/11	400	260
Manganese	810	mg/kg	11/11	180	520
Thallium	0.53	mg/kg	10/11	0.078	0.3
Vanadium	60	mg/kg	11/11	39	31
PCB-1254	170	µg/kg	3/11	120	70

5.1.4.8 EU10

EU10 – preliminary COPCs	Max. detect	Units	Detection frequency	Screening value	EPC
Surface Soil (0 to 2 feet BGS)					
Benzo(a)pyrene	840	µg/kg	8/8	110	600
Benzo(b)fluoranthene	1,300	µg/kg	8/8	1,100	940
Carbazole	280	µg/kg	4/8	--	210
Dibenz(a,h)anthracene	150	µg/kg	8/8	110	110
Aluminum	12,000	mg/kg	8/8	7,700	9,100
Arsenic	27	mg/kg	8/8	0.68	18
Chromium VI (hexavalent)	0.44 J	mg/kg	2/8	0.3	0.37
Cobalt	8.9	mg/kg	8/8	2.3	7.1
Iron	27,000	mg/kg	8/8	5,500	18,000
Manganese	550	mg/kg	8/8	180	420

EU10 – preliminary COPCs	Max. detect	Units	Detection frequency	Screening value	EPC
Thallium	0.38	mg/kg	8/8	0.078	0.28
PCB-1254	760 J	µg/kg	4/8	120	400
Dieldrin	37 J	µg/kg	2/8	34	43
Soil (0 to 15 feet BGS)					
Benzo(a)pyrene	840	µg/kg	12/12	110	450
Benzo(b)fluoranthene	1,300	µg/kg	12/12	1,100	700
Carbazole	280	µg/kg	5/12	--	150
Dibenz(a,h)anthracene	150	µg/kg	11/12	110	160
Aluminum	12,000	mg/kg	12/12	7,700	8,400
Arsenic	27	mg/kg	12/12	0.68	14
Chromium VI (hexavalent)	0.88 J	mg/kg	4/12	0.3	0.4
Cobalt	8.9	mg/kg	12/12	2.3	6.9
Cyanide (total)	7.6	mg/kg	6/12	2.3	4.8
Iron	47,000	mg/kg	12/12	5,500	25,000
Manganese	890 J	mg/kg	12/12	180	460
Thallium	0.38	mg/kg	12/12	0.078	0.25
PCB-1254	760 J	µg/kg	4/12	120	270
Dieldrin	37 J	µg/kg	2/12	34	30

5.1.4.9 EU11

EU11 – preliminary COPCs	Max. detect	Units	Detection frequency	Screening value	EPC
Surface Soil (0 to 2 feet BGS)					
Benzo(a)anthracene	1,200	µg/kg	8/8	1,100	600
Benzo(a)pyrene	1,400	µg/kg	7/8	110	1,400
Benzo(b)fluoranthene	2,000	µg/kg	8/8	1,100	1,900
Carbazole	120	µg/kg	6/8	--	76
Dibenz(a,h)anthracene	220	µg/kg	6/8	110	210
Aluminum	11,000	mg/kg	8/8	7,700	7,510
Arsenic	13	mg/kg	8/8	0.68	9.6
Chromium VI (hexavalent)	3.6	mg/kg	2/8	0.3	3.1
Cobalt	6.9	mg/kg	8/8	2.3	5.6
Iron	25,000	mg/kg	8/8	5,500	19,000
Manganese	550	mg/kg	8/8	180	450
Thallium	0.24	mg/kg	7/8	0.078	0.18
PCB-1254	910	µg/kg	4/8	120	430
Soil (0 to 15 feet BGS)					
Trichloroethene	2,400	µg/kg	7/16	410	1,700
Benzo(a)anthracene	1,200	µg/kg	16/16	1,100	540
Benzo(a)pyrene	1,400	µg/kg	15/16	110	580
Benzo(b)fluoranthene	2,000	µg/kg	16/16	1,100	780
Carbazole	120	µg/kg	7/16	--	57
Dibenz(a,h)anthracene	220	µg/kg	10/16	110	69
Aluminum	14,000 J	mg/kg	16/16	7,700	8,100
Arsenic	45	mg/kg	16/16	0.68	21

EU11 – preliminary COPCs	Max. detect	Units	Detection frequency	Screening value	EPC
Cadmium	19	mg/kg	15/16	7.1	6.7
Chromium VI (hexavalent)	3.7	mg/kg	9/17	0.3	1.9
Cobalt	22	mg/kg	16/16	2.3	7.9
Copper	410	mg/kg	16/16	310	150
Iron	63,700	mg/kg	16/16	5,500	24,000
Manganese	734 J	mg/kg	16/16	180	450
Thallium	1.4	mg/kg	11/16	0.078	0.32
Vanadium	72	mg/kg	16/16	39	38
PCB-1254	910	µg/kg	6/16	120	220

5.1.4.10 EU12

EU12 – preliminary COPCs	Max. detect	Units	Detection frequency	Screening value	EPC
Surface Soil (0 to 2 feet BGS)					
Benzo(a)pyrene	750	µg/kg	6/8	110	910
Carbazole	140 J	µg/kg	3/8	--	58
Dibenz(a,h)anthracene	130	µg/kg	5/8	110	63
Aluminum	7,900	mg/kg	8/8	7,700	5,200
Arsenic	46 J	mg/kg	8/8	0.68	19
Cobalt	7.1	mg/kg	8/8	2.3	5.7
Iron	12,000	mg/kg	8/8	5,500	10,000
Manganese	410	mg/kg	8/8	180	330
Thallium	0.7	mg/kg	5/8	0.078	0.27
Vanadium	49 J	mg/kg	8/8	39	20
PCB-1254	210	µg/kg	1/8	120	210
Soil (0 to 15 feet BGS)					
Benzo(a)pyrene	770	µg/kg	9/14	110	660
Carbazole	140 J	µg/kg	3/14	--	45
Dibenz(a,h)anthracene	130	µg/kg	6/14	110	40
Aluminum	10,000 J	mg/kg	14/14	7,700	5,600
Arsenic	51.2	mg/kg	14/14	0.68	27
Chromium VI (hexavalent)	2.4	mg/kg	3/14	0.3	1
Cobalt	7.1	mg/kg	14/14	2.3	5.6
Iron	38,000	mg/kg	14/14	5,500	17,000
Manganese	2,600	mg/kg	14/14	180	950
Thallium	1.1	mg/kg	9/14	0.078	0.39
Vanadium	49 J	mg/kg	14/14	39	27
PCB-1254	210	µg/kg	2/14	120	84

5.1.4.11 EU13

EU13 – preliminary COPCs	Max. detect	Units	Detection frequency	Screening value	EPC
Surface Soil (0 to 2 feet BGS)					
1,1-Dichloroethane	25 J	µg/kg	1/8	3.6	25
Trichloroethene	13,000 J	µg/kg	7/8	410	25,000

EU13 – preliminary COPCs	Max. detect	Units	Detection frequency	Screening value	EPC
Benzo(a)anthracene	5,200	µg/kg	7/8	1,100	7,800
Benzo(a)pyrene	5,200	µg/kg	7/8	110	17,000
Benzo(b)fluoranthene	8,000	µg/kg	8/8	1,100	10,000
Carbazole	1,100	µg/kg	3/8	--	520
Dibenz(a,h)anthracene	920	µg/kg	4/8	110	410
Indeno(1,2,3-cd)pyrene	3,100	µg/kg	5/8	1,100	1,300
Naphthalene	4,200	µg/kg	7/8	3,800	2,900
Aluminum	8,400	mg/kg	8/8	7,700	7,700
Antimony	1,400 J	mg/kg	7/8	3.1	1,300
Arsenic	70	mg/kg	8/8	0.68	51
Barium	1,800	mg/kg	8/8	1,500	990
Cadmium	30	mg/kg	7/8	7.1	88
Chromium VI (hexavalent)	1.4	mg/kg	3/8	0.3	0.93
Cobalt	24	mg/kg	8/8	2.3	16
Copper	3,300	mg/kg	8/8	310	4200
Cyanide (total)	4.1	mg/kg	6/8	2.3	2.1
Iron	180,000	mg/kg	8/8	5,500	150,000
Lead	26,000 J	mg/kg	8/8	400	19,000
Manganese	2,300	mg/kg	8/8	180	2,000
Mercury	3.2	mg/kg	8/8	1.1	2.8
Nickel	310	mg/kg	8/8	150	270
Thallium	2	mg/kg	7/8	0.078	1
Vanadium	130	mg/kg	8/8	39	100
Zinc	3,400 J	mg/kg	8/8	2,300	6,100
PCB-1254	140,000	µg/kg	6/8	120	3,900,000
Heptachlor epoxide	75 NJ	µg/kg	1/8	70	75
Soil (0 to 15 feet BGS)					
1,1-Dichloroethane	25 J	µg/kg	1/15	3.6	25
Ethylbenzene	59,000	µg/kg	3/16	5,800	18,000
Trichloroethene	13,000 J	µg/kg	11/15	410	5,900
Xylenes (total)	140,000	µg/kg	7/16	58,000	71,000
Benzo(a)anthracene	5,200	µg/kg	10/13	1,100	4,700
Benzo(a)pyrene	5,200	µg/kg	11/13	110	3,100
Benzo(b)fluoranthene	8,000	µg/kg	12/13	1,100	8,100
Carbazole	1,100	µg/kg	4/13	--	310
Dibenz(a,h)anthracene	920	µg/kg	110	110	250
Indeno(1,2,3-cd)pyrene	3,100	µg/kg	8/13	1,100	3,200
Naphthalene	11,000	µg/kg	11/13	3,800	10,000
Aluminum	14,000	mg/kg	13/13	7,700	8,100
Antimony	1,400 J	mg/kg	12/13	3.1	600
Arsenic	70	mg/kg	13/13	0.68	48
Barium	1,800	mg/kg	13/13	1,500	800
Cadmium	30	mg/kg	12/13	7.1	28
Chromium VI (hexavalent)	2.6	mg/kg	4/14	0.3	1
Cobalt	24	mg/kg	13/13	2.3	12

EU13 – preliminary COPCs	Max. detect	Units	Detection frequency	Screening value	EPC
Copper	3,300	mg/kg	13/13	310	1,700
Cyanide (total)	4.1	mg/kg	8/13	2.3	1.7
Iron	180,000	mg/kg	13/13	5,500	68,000
Lead	26,000 J	mg/kg	13/13	400	5,500
Manganese	2,300	mg/kg	13/13	180	980
Mercury	3.2	mg/kg	13/13	1.1	1.1
Nickel	310	mg/kg	13/13	150	160
Thallium	2	mg/kg	12/13	0.078	1.1
Vanadium	130	mg/kg	13/13	39	57
Zinc	3,400 J	mg/kg	13/13	2,300	1,900
PCB-1242	380	µg/kg	1/15	230	380
PCB-1254	140,000	µg/kg	11/15	120	100,000
Heptachlor epoxide	75 NJ	µg/kg	1/13	70	75

5.1.4.12 EU14

EU14 – preliminary COPCs	Max. detect	Units	Detection frequency	Screening value	EPC
Surface Soil (0 to 2 feet BGS)					
1,1-Dichloroethane	110 J	µg/kg	3/7	3.6	63
Trichloroethene	6,400	µg/kg	8/8	410	10,000
Vinyl chloride	410 J	µg/kg	3/7	59	190
Benzo(a)anthracene	1,700	µg/kg	7/7	1,100	1,000
Benzo(a)pyrene	2,000	µg/kg	7/7	110	1,200
Benzo(b)fluoranthene	3,000	µg/kg	7/7	1,100	1,700
Carbazole	120	µg/kg	4/7	--	96
Dibenz(a,h)anthracene	510	µg/kg	4/7	110	300
Indeno(1,2,3-cd)pyrene	1,700	µg/kg	7/7	1,100	950
Aluminum	9,200	mg/kg	7/7	7,700	8,000
Antimony	13	mg/kg	7/7	3.1	10
Arsenic	33	mg/kg	7/7	0.68	25
Barium	3,100	mg/kg	7/7	1,500	4,700
Cadmium	11	mg/kg	7/7	7.1	8.7
Chromium VI (hexavalent)	1.2	mg/kg	4/7	0.3	0.96
Cobalt	17	mg/kg	7/7	2.3	14
Copper	2,400	mg/kg	7/7	310	1,800
Cyanide (total)	13	mg/kg	4/7	2.3	6.2
Iron	71,000	mg/kg	7/7	5,500	64,000
Lead	4,200	mg/kg	7/7	400	2,700
Manganese	880	mg/kg	7/7	180	690
Thallium	0.49	mg/kg	7/7	0.078	0.34
Vanadium	46	mg/kg	7/7	39	35
Zinc	3,000	mg/kg	7/7	2,300	2,100
PCB-1242	370	µg/kg	1/7	230	370
PCB-1254	620	µg/kg	5/7	120	420
PCB-1260	14,000	µg/kg	2/7	240	13,000

EU14 – preliminary COPCs	Max. detect	Units	Detection frequency	Screening value	EPC
Soil (0 to 15 feet BGS)					
1,1-Dichloroethane	240 J	µg/kg	7/15	3.6	65
Ethylbenzene	15,000	µg/kg	6/15	5,800	3,700
Trichloroethene	6,400	µg/kg	14/16	410	3,000
Vinyl chloride	410 J	µg/kg	6/15	59	120
Benzo(a)anthracene	1,700	µg/kg	9/13	1,100	940
Benzo(a)pyrene	2,000	µg/kg	9/13	110	1,100
Benzo(b)fluoranthene	3,000	µg/kg	9/13	1,100	1,600
Carbazole	120	µg/kg	4/13	--	79
Dibenz(a,h)anthracene	510	µg/kg	5/13	110	170
Indeno(1,2,3-cd)pyrene	1,700	µg/kg	9/13	1,100	550
Aluminum	9,200	mg/kg	13/13	7,700	7,300
Antimony	13	mg/kg	12/13	3.1	10
Arsenic	35	mg/kg	13/13	0.68	22
Barium	3,100	mg/kg	13/13	1,500	1,800
Cadmium	13	mg/kg	13/13	7.1	7
Chromium VI (hexavalent)	8.6	mg/kg	9/13	0.3	4.8
Cobalt	17	mg/kg	13/13	2.3	12
Copper	2,400	mg/kg	13/13	310	1,700
Cyanide (total)	13	mg/kg	7/13	2.3	11
Iron	71,000	mg/kg	13/13	5,500	45,000
Lead	4,200	mg/kg	13/13	400	2,800
Manganese	880	mg/kg	13/13	180	540
Thallium	0.98	mg/kg	11/13	0.078	0.52
Vanadium	46	mg/kg	13/13	39	32
Zinc	3,000	mg/kg	13/13	2,300	2,300
PCB-1242	370	µg/kg	1/13	230	370
PCB-1248	430	µg/kg	1/13	230	430
PCB-1254	3,700	µg/kg	7/13	120	2,600
PCB-1260	14,000	µg/kg	3/13	240	3,400
Dieldrin	270 J	µg/kg	2/13	34	150

5.1.4.13 EU15

EU15 – preliminary COPCs	Max. detect	Units	Detection frequency	Screening value	EPC
Surface Soil (0 to 2 feet BGS)					
1,1-Dichloroethane	5.3 J	µg/kg	1/11	3.6	5.3
Trichloroethene	4,300	µg/kg	9/11	410	3,400
Benzo(a)anthracene	9,600	µg/kg	9/10	1,100	5,200
Benzo(a)pyrene	8,500	µg/kg	9/10	110	4,700
Benzo(b)fluoranthene	12,000	µg/kg	9/10	1,100	6,600
Carbazole	1,500	µg/kg	4/10	--	810
Dibenz(a,h)anthracene	1,600	µg/kg	6/10	110	1,200
Indeno(1,2,3-cd)pyrene	5,300	µg/kg	9/10	1,100	4,000
Aluminum	13,000	mg/kg	10/10	7,700	8,700

EU15 – preliminary COPCs	Max. detect	Units	Detection frequency	Screening value	EPC
Antimony	12	mg/kg	10/10	3.1	5.6
Arsenic	27	mg/kg	10/10	0.68	18
Barium	2,900	mg/kg	10/10	1,500	1,200
Cadmium	16	mg/kg	10/10	7.1	9.2
Chromium VI (hexavalent)	6.9	mg/kg	6/10	0.3	3.7
Cobalt	29	mg/kg	10/10	2.3	19
Copper	2,900	mg/kg	10/10	310	1,900
Cyanide (total)	41	mg/kg	3/10	2.3	14
Iron	110,000	mg/kg	10/10	5,500	73,000
Lead	2,600 J	mg/kg	10/10	400	1,000
Manganese	1,100	mg/kg	10/10	180	660
Mercury	6.1	mg/kg	9/10	1.1	2.5
Thallium	0.65	mg/kg	10/10	0.078	0.36
Vanadium	50	mg/kg	10/10	39	30
Zinc	5,600	mg/kg	10/10	2,300	3,400
PCB-1232	1,100	µg/kg	1/10	170	1,100
PCB-1242	1,100	µg/kg	1/10	230	1100
PCB-1248	1,900 J	µg/kg	1/10	230	1,900
PCB-1254	1,800	µg/kg	4/10	120	610
PCB-1260	1,100 J	µg/kg	3/10	240	270
Soil (0 to 15 feet BGS)					
1,1-Dichloroethane	5.3 J	µg/kg	1/20	3.6	5.3
Ethylbenzene	260,000 J	µg/kg	1/20	5,800	260,000
Trichloroethene	5200	µg/kg	15/20	410	2300
Xylenes (total)	2,000,000 J	µg/kg	6/20	58,000	1,100,000
Benzo(a)anthracene	9,600	µg/kg	12/15	1,100	6,400
Benzo(a)pyrene	8,500	µg/kg	12/15	110	3,300
Benzo(b)fluoranthene	12,000	µg/kg	12/15	1,100	8,000
Carbazole	1,500	µg/kg	5/15	--	580
Dibenz(a,h)anthracene	1,600	µg/kg	7/15	110	640
Indeno(1,2,3-cd)pyrene	5,300	µg/kg	12/15	1,100	2,100
Aluminum	21,700	mg/kg	15/15	7,700	11,000
Antimony	70.1 J	mg/kg	15/15	3.1	24
Arsenic	54	mg/kg	15/15	0.68	22
Barium	3,500	mg/kg	15/15	1,500	1,600
Cadmium	16	mg/kg	15/15	7.1	6
Chromium VI (hexavalent)	154	mg/kg	10/15	0.3	76
Cobalt	317	mg/kg	15/15	2.3	120
Copper	2,900	mg/kg	15/15	310	1,200
Cyanide (total)	41	mg/kg	4/15	2.3	8.7
Iron	110,000	mg/kg	15/15	5,500	66,000
Lead	17,700	mg/kg	15/15	400	5,200
Manganese	1,100	mg/kg	15/15	180	570
Mercury	6.1	mg/kg	13/15	1.1	1.4
Thallium	1.4	mg/kg	14/15	0.078	0.57

EU15 – preliminary COPCs	Max. detect	Units	Detection frequency	Screening value	EPC
Vanadium	73	mg/kg	15/15	39	35
Zinc	19,600	mg/kg	15/15	2,300	15,000
PCB-1232	1,100	µg/kg	1/15	170	1,100
PCB-1242	1,100	µg/kg	2/15	230	540
PCB-1248	8,600	µg/kg	2/15	230	4,100
PCB-1254	1,800	µg/kg	5/15	120	450
PCB-1260	1,100 J	µg/kg	4/15	240	230
Dioxins and furans (TEQ)	74.7	pg/g	4/4	4.8	75

5.1.4.14 EU16

EU16 – preliminary COPCs	Max. detect	Units	Detection frequency	Screening value	EPC
Surface Soil (0 to 2 feet BGS)					
Vinyl chloride	89 J	µg/kg	1/2	59	89
Benzo(a)pyrene	780 J	µg/kg	1/1	110	780
Benzo(b)fluoranthene	1,800 J	µg/kg	1/1	1,100	1,800
Arsenic	6.2	mg/kg	1/1	0.68	6.2
Chromium VI (hexavalent)	1	mg/kg	1/1	0.3	1
Cobalt	3.6	mg/kg	1/1	2.3	3.6
Iron	23,000	mg/kg	1/1	5,500	23,000
Manganese	360	mg/kg	1/1	180	360
Thallium	0.10 J	mg/kg	1/1	0.078	0.1
PCB-1254	2,000 J	µg/kg	1/1	120	2000
Dioxins and furans (TEQ)	49.7	pg/g	1/1	4.8	50
Soil (0 to 15 feet BGS)					
1,1-Dichloroethane	280 J	µg/kg	3/22	3.6	57
Chlorobenzene	100,000	µg/kg	6/22	28,000	17,000
Ethylbenzene	210,000 J	µg/kg	11/22	5,800	69,000
Tetrachloroethene	40,000	µg/kg	5/22	8,100	16,000
Trichloroethene	25,000	µg/kg	11/22	410	8,300
Vinyl chloride	200 J	µg/kg	5/22	59	62
Xylenes (total)	590,000 J	µg/kg	12/22	58,000	220,000
Benzo(a)anthracene	6,400	µg/kg	9/15	1,100	4,800
Benzo(a)pyrene	4,500	µg/kg	7/15	110	2,400
Benzo(b)fluoranthene	6,200	µg/kg	11/15	1,100	2,900
Indeno(1,2,3-cd)pyrene	2,300	µg/kg	6/15	1,100	1,200
Naphthalene	9,800	µg/kg	12/15	3,800	4,900
Aluminum	20,700	mg/kg	15/15	7,700	10,000
Antimony	191 J	mg/kg	15/15	3.1	140
Arsenic	30	mg/kg	15/15	0.68	19
Barium	7,810	mg/kg	15/15	1,500	3,500
Cadmium	29	mg/kg	14/15	7.1	12
Chromium VI (hexavalent)	26	mg/kg	11/15	0.3	9.4
Cobalt	37	mg/kg	15/15	2.3	18
Copper	7,340 J	mg/kg	15/15	310	3,100

EU16 – preliminary COPCs	Max. detect	Units	Detection frequency	Screening value	EPC
Cyanide (total)	11	mg/kg	11/14	2.3	8.6
Iron	2,10000	mg/kg	15/15	5,500	100,000
Lead	16,000	mg/kg	15/15	400	7,100
Manganese	1,400	mg/kg	15/15	180	740
Mercury	3.9	mg/kg	14/15	1.1	1.8
Nickel	860	mg/kg	15/15	150	440
Thallium	2.4	mg/kg	10/15	0.078	1
Vanadium	79	mg/kg	15/15	39	34
Zinc	19,000	mg/kg	15/15	2,300	5,200
PCB-1242	29,000	µg/kg	6/16	230	15,000
PCB-1254	10,000	µg/kg	10/16	120	4,100
Dieldrin	68 J	µg/kg	1/14	34	68
Dioxins and furans (TEQ)	826.6	pg/g	9/9	4.8	740

5.1.4.15 EU17

EU17 – preliminary COPCs	Max. detect	Units	Detection frequency	Screening value	EPC
Surface Soil (0 to 2 feet BGS)					
Benzo(a)anthracene	1,500 J	µg/kg	11/11	1,100	560
Benzo(a)pyrene	1,300	µg/kg	11/11	110	550
Benzo(b)fluoranthene	1,900	µg/kg	11/11	1,100	860
Carbazole	110 J	µg/kg	3/11	--	55
Dibenz(a,h)anthracene	200 J	µg/kg	8/11	110	86
Aluminum	14,000	mg/kg	11/11	7,700	9,600
Antimony	260	mg/kg	11/11	3.1	140
Arsenic	29	mg/kg	11/11	0.68	19
Barium	1,800	mg/kg	11/11	1,500	1,100
Cadmium	20	mg/kg	11/11	7.1	12
Chromium VI (hexavalent)	5.4	mg/kg	5/11	0.3	2.1
Cobalt	67 J	mg/kg	11/11	2.3	20
Copper	6,000 J	mg/kg	11/11	310	3,200
Cyanide (total)	13 J	mg/kg	5/7	13 J	6.9
Iron	40,000	mg/kg	11/11	5,500	24,000
Lead	2,400	mg/kg	11/11	400	1,200
Manganese	760	mg/kg	11/11	180	570
Nickel	330	mg/kg	11/11	150	130
Thallium	0.51 J	mg/kg	11/11	0.078	0.31
Vanadium	42	mg/kg	11/11	39	29
Zinc	4,500 J	mg/kg	11/11	2,300	2,000
PCB-1254	1,700	µg/kg	9/12	120	1,100

5.1.4.16 EU18 and EU19 (combined)

EU18 and EU19 – preliminary COPCs	Max. detect	Units	Detection frequency	Screening value	EPC
Surface Soil (0 to 2 feet BGS)					
1,1-Dichloroethane	560 J	µg/kg	1/22	3.6	560
Benzo(a)anthracene	8,500	µg/kg	27/33	1,100	2,600
Benzo(a)pyrene	6,000	µg/kg	25/33	110	2,000
Benzo(b)fluoranthene	9,500	µg/kg	28/33	1,100	3,100
Carbazole	870	µg/kg	7/23	--	240
Dibenz(a,h)anthracene	1,600	µg/kg	11/33	110	400
Indeno(1,2.3-cd)pyrene	5,000	µg/kg	23/33	1,100	1,500
Aluminum	12,000	mg/kg	33/33	7,700	6,300
Antimony	52	mg/kg	22/33	3.1	17
Arsenic	77.2	mg/kg	33/33	0.68	34
Cadmium	34	mg/kg	27/33	7.1	9.1
Chromium VI (hexavalent)	15.7	mg/kg	28/34	0.3	4.4
Cobalt	22.1	mg/kg	32/33	2.3	9.5
Copper	191,000	mg/kg	33/33	310	31,000
Cyanide (total)	3.7	mg/kg	10/23	13 J	0.57
Iron	94,000	mg/kg	33/33	5,500	40,000
Lead	13,000	mg/kg	33/33	400	4,400
Manganese	1,400	mg/kg	33/33	180	380
Nickel	402	mg/kg	33/33	150	120
Thallium	4.5	mg/kg	22/33	0.078	1.3
Vanadium	92.6	mg/kg	33/33	39	35
Zinc	11,500	mg/kg	33/33	2,300	2,400
PCB-1242	770	µg/kg	2/23	230	280
PCB-1248	4,200	µg/kg	3/33	230	430
PCB-1254	29,000	µg/kg	13/23	120	7,000
PCB-1260	2,800	µg/kg	9/33	240	400
Dioxins and furans (TEQ)	19.2	pg/g	6/6	4.8	39

5.1.5 References

USEPA, 2016. ProUCL Version 5.1. May. Available from: https://www.epa.gov/land-research/proucl-software.

USEPA, 2018. Regional Screening Levels (RSL), Last Updated November. Available from: http://www.epa.gov/Region9/superfund/prg/

5.2 Floodplain Soil

GHD conducted an initial assessment of the floodplain soil data involving comparison of analytical results to human health criteria (RSLs) and ecological screening values (ESVs). The purpose of the initial assessment is to identify parameters that exceed criteria and requirements for further characterization.

The analytical results for detected parameters in floodplain soil samples are provided in Appendix G with comparison to screening criteria, in the following tables:

- Appendix G – Table 1: floodplain soil adjacent to OU1 with comparison to RSLs (residential and industrial)
- Appendix G – Table 2: floodplain soil adjacent to OU1 with comparison to ESVs (soil and sediment)

5.2.1 Comparison to RSLs

The floodplain soil samples collected adjacent to OU1 with at least one detection greater than the RSLs (based on conservative residential soil values) are listed in the table below (Table 5.1) with other details (maximum detected concentration and detection frequency). The table also shows the maximum detected concentration and detection frequency for upstream soil samples.

Table 5.1 Floodplain Soil Sample Results – Comparison to RSLs

Floodplain soil – parameters with max detect > than RSLs	Units	Max. detect – adjacent to OU1	Detection frequency	Screening value - residential	Max. detect – upstream	Detection frequency
SVOCs						
Benzo(a)anthracene	µg/kg	1,900	26/26	1,100	500	18/18
Benzo(a)pyrene	µg/kg	1,600	26/26	110	540	18/18
Benzo(b)fluoranthene	µg/kg	2,700	26/26	1,100	990	18/18
Dibenz(a,h)anthracene	µg/kg	190	16/26	110	110	14/18
Metals						
Aluminum	mg/kg	14,000	26/26	7,700	13,000	18/18
Arsenic	mg/kg	12	26/26	0.68	10	18/18
Chromium VI (hexavalent)	mg/kg	0.76	6/26	0.3	--	--
Cobalt	mg/kg	9.7	26/26	2.3	13	18/18
Iron	mg/kg	25,000	26/26	5,500	23,000	18/18
Manganese	mg/kg	690	26/26	180	1,000	18/18
Thallium	mg/kg	0.49	26/26	0.078	0.4	18/18
PCBs						
Aroclor-1248 (PCB-1248)	µg/kg	4,600	1/26	230	ND	0/18
Aroclor-1254 (PCB-1254)	µg/kg	860	20/26	120	3,300	16/18

GHD observations based on inspection of the results in Table 5.1 are as follows:

- Parameters that were detected with maximum concentrations greater than RSLs include SVOCs (four); metals (seven); and PCBs (two).
- The SVOCs detected with maximum concentrations greater than RSLs in soil samples collected adjacent to OU1 include four PAH compounds: benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and dibenz(a,h)anthracene. Three of these were detected in all 26 samples, and the fourth was detected in 16 of 26 samples. Similarly, each of the four PAHs was detected in all or most of the upstream soil samples. The detected concentrations are marginally greater in the soil samples adjacent to OU1 compared to the upstream samples.

- The metals detected with maximum concentrations greater than RSLs in soil samples collected adjacent to OU1 include aluminum, arsenic, chromium VI, cobalt, iron, manganese, and thallium. Each of these was detected in all soil samples collected adjacent to OU1, and all upstream soil samples, with the following exception. Chromium VI was detected in 6 of 26 soil samples collected adjacent to OU1 and was not analyzed in the upstream soil samples. In general, the detected metals concentrations in the soil samples collected adjacent to OU1 are consistent with the concentrations in the upstream soil samples.
- The PCBs detected with maximum concentrations greater than RSLs in soil samples collected adjacent to OU1 include PCB-1248 and PCB-1254. PCB-1248 was detected in one soil sample collected adjacent to OU1 (4,600 µg/kg) and was not detected in any upstream soil samples. PCB-1254 was detected the majority of soil samples collected both adjacent to OU1 (up to 860 µg/kg) and upstream (up to 3,300 µg/kg).

In addition to the above, GHD's assessment included review of the spatial distribution of the analytical results for soil samples with respect to the parameters discussed above, i.e., those with maximum concentrations greater than RSLs. For this part of the assessment the soil sample locations adjacent to OU1 (12 total) were subdivided into three segments as follows:

- Segment 1 includes four northernmost sample locations (SS-164, SS-165, SS-166, and SS-167). These sample locations are situated on higher ground, compared to the more pronounced drainage pathway where Segment 2 and 3 sample locations are situated.
- Segment 2 includes four sample locations (SS-168, SS-169, SS-170, and SS-171) within the drainage pathway below Segment 1.
- Segment 3 includes four sample locations (SS-172, SS-173, SS-174, and SS-175) within the drainage pathway below Segment 2.

The sample locations are shown on Figure 2.3b. Segment 1 and Segment 2 sample locations are situated to the north and west of the Valley Asphalt facility. Segment 3 sample locations are situated west of the central area of OU1 and the Quarry Pond. Table 5.2 provides a summary of the analytical results for each segment expressed as mean values. Table 2 shows mean values for each segment for three cases: all results; upper sample interval (0 to 6 inches deep), and lower sample interval (6 to 24 inches deep).

GHD observations based on inspection of the results in Table 5.2 are as follows:

- The greatest mean SVOC concentration values are found in Segment 2, which includes the upper reach of the drainage pathway adjacent to OU1 (west of the Valley Asphalt facility).
- The mean SVOC concentration values in Segment 3 (downgradient) are lower compared to Segment 2 (upgradient). The mean SVOC concentration values in Segment 1 (located on higher ground above the Segment 2/3 drainage pathway) are the least of the three segments.
- In Segment 2, the mean SVOC concentration values are slightly greater in the lower sample interval compared to the upper sample interval. Conversely, the mean SVOC concentrations in Segments 1 and 3 are generally slightly greater in the upper sample interval compared to the lower sample interval.

- The greatest mean concentration values for metals are found in Segment 2 and are slightly greater in the lower samples compared to upper samples, similar to the SVOC distribution as noted above.
- The mean concentration values for metals in Segment 1 and Segment 3 are generally comparable. Arsenic concentrations appear to be greater in Segment 1 (and Segment 2) compared to Segment 3.
- The greatest mean concentration values for PCB-1254 are found in Segment 2 and are greater in the lower samples compared to upper samples. The mean PCB-1254 concentration values in Segment 3 are lower compared to Segment 2, and the least values are found in Segment 1. This is similar to the SVOC distribution as noted above. Note that the single detection of PCB-1248 is also found in Segment 2.

5.2.2 Comparison to ESVs

The floodplain soil samples collected adjacent to OU1 with at least one detection greater than the ESVs (based on the more conservative of either soil or sediment screening values) are listed in Table 5.3 with other details (maximum detected concentration and detection frequency). The table also shows the maximum detected concentration and detection frequency for upstream soil samples.

GHD observations based on inspection of the results in Table 5.3 are as follows:

- Parameters that were detected with maximum concentrations greater than ESVs include VOCs (two), SVOCs (20), pesticides (seven), herbicides (one), metals (18), and cyanide.
- The VOCs detected with maximum concentrations greater than ESVs in soil samples adjacent to OU1 include acetone (six of 26 samples, up to 140 µg/kg) and methylene chloride (one of 26 samples, at 21 µg/kg). The results demonstrate that VOCs presence is not significant due to the limited number of detections and low concentrations compared to the screening values.
- The SVOCs detected with maximum concentrations greater than ESVs in soil samples collected adjacent to OU1 include the following: 2-methynaphthalene, acenaphthene, acenaphthylene, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g.h,i)perylene, benzo(k)fluoranthene, bis(2-Ethyhexyl)phthalate, butyl benzylphthalate, carbazole, chrysene, dibenz(a,h)anthracene, di-n-butylphthalate, fluoranthene, fluorene, indeno(1,2,3-cd)pyrene, phenanthrene, and pyrene. These SVOCs predominantly include PAH compounds, in terms of frequency of detection and concentrations. The detected concentrations are marginally greater in the soil samples adjacent to OU1 compared to the upstream samples.
- The metals detected with maximum concentrations greater than ESVs in soil samples collected adjacent to OU1 include antimony, arsenic, barium, chromium, chromium III, chromium VI, copper, iron, lead, manganese, mercury, nickel, selenium, silver, thallium, vanadium, and zinc. Each of these was detected in all soil samples collected adjacent to OU1, and all upstream soil samples, with the following exception: Chromium VI was detected in six of 26 soil samples collected adjacent to OU1 and was not analyzed in the upstream soil samples. In general, the detected metals concentrations in the soil samples collected adjacent to OU1 are consistent with the concentrations in the upstream soil samples.
- Cyanide was detected in one soil sample location adjacent to OU1 (0.27 mg/kg) and three upstream soil samples at similar concentrations (up to 0.29 mg/kg). These results demonstrate

that cyanide presence is not significant due to the limited number of detections and low concentrations compared to the screening values.

- Pesticides that were detected with maximum concentrations greater than ESVs in soil samples collected adjacent to OU1 include the following: 4,4'-DDE (two of 25 samples, 2.5 µg/kg), 4,4'-DDT (one of 25 samples, 17 µg/kg), alpha-chlordane (two of 26 samples, 11 µg/kg), endosulfan sulfate (one of 25 samples, 2.9 µg/kg), gamma-BHC (lindane) (one of 25 samples, 29 µg/kg), heptachlor epoxide (one of 26 samples, 2.8 µg/kg), and toxaphene (one of 26 samples, 51 µg/kg). Two of these (4,4'-DDE and 4,4'-DDT) were also detected in upstream sample locations. The results demonstrate that pesticide presence is not significant due to the limited number of detections and low concentrations compared to the screening values.
- Herbicides that were detected with maximum concentrations greater than ESVs in soil samples collected adjacent to OU1 include 2,4,5-TP (Silvex) in one of 26 samples at 73 µg/kg. The results demonstrate that herbicide presence is not significant due to the very limited number of detections and low concentrations compared to the screening values.

5.2.3 Summary

As demonstrated by the analytical results discussed above, the floodplain soil samples collected at locations adjacent to OU1 contain concentrations of various parameters that are greater than RSLs and/or ESVs. It is evident that a number of these parameters are present at greater concentrations within the segment adjacent to the Valley Asphalt facility (within the upper reach of the drainage pathway adjacent to OU1). Also, a number of these parameters are detected in upstream floodplain soil samples, indicating that the floodplain soil may be affected by upstream effects, not related to the Site.

In accordance with the RI/FS Work Plan additional characterization is required due to the presence of parameters at concentrations greater than relevant screening criteria. GHD proposes to collect soil samples at up to nine locations shown on Figure 5.1. This includes one location (SS-176) that was not completed previously due to the presence of standing water. GHD proposes to analyze the soil samples for SVOCs, metals, and PCBs.

6. Soil Gas Investigation

The Phase 1 soil gas investigation activities and results are presented in the GHD letter to USEPA and Ohio EPA dated April 22, 2019 (reproduced in Appendix H), and summarized below.

Soil Gas Probe Locations:

A total of 35 soil gas probes installed by GHD currently exist. Most (28 of 35) are located within the northern and central areas of OU1, providing spatial coverage of undeveloped areas and Dryden Road business parcels. Soil gas probes exist at four locations within the southern area of OU1, including GP07-18 and GP08-19 (Jim City property); and GP09-09 and GP10-09 (non-responsive). Soil gas probes exist at three locations within the East River Road properties including GP06-09 (Parcel 3261); GP34-18 (Parcel 3207); and GP35-19 (Parcel 3255). One proposed soil gas probe (at non-responsive) was not installed due to access issues and will be installed at an alternative location pending access approval.

In 2012, USEPA installed multi-level gas probes at one location along East River Road and six locations along Dryden Road, identified as GP-1 through GP-7. The soil gas probe locations are shown on Figure 2.5 (and on the figures in Appendix H).

Field Parameter Monitoring:

Field parameter monitoring for organic vapors, carbon dioxide, oxygen, combustible gas (i.e., methane and other explosive gases), and hydrogen sulfide was completed in three monitoring rounds in 2018 (March, August/ September, and November), using all accessible soil gas probes installed by GHD. The current monitoring program also includes USEPA multi-level soil gas probe locations GP-1 and GP-3 through GP-7, comprising 17 discrete soil gas probe screen intervals.

GHD conducted a review of previous (2009 through 2016) and current (2018) monitoring results for combustible gases, summarized as follows:

- The pre-2018 results indicate the presence of total combustible gases and methane at six on-site soil gas probes exceeding the lower explosive limit (LEL) for methane, i.e., 5%. Three of these soil gas probes (GP01-09, GP17-09, and GP18-09) are located in the Valley Asphalt property. Two of these (GP17-09 and GP18-09) no longer exist, and the other (GP01-09) has been replaced by GP01-18. The remaining three soil gas probes are located within the central portion of OU1.
- Based on pre-2018 monitoring results, combustible gas readings greater than the 5% threshold were also recorded at one off-site soil gas probe (GP-2), which is located adjacent to the DP&L transportation building. The combustible gas detected at GP-2 is unrelated to OU1.
- The 2018 results indicate the presence of total combustible gases and methane at three locations within the northern and central portions of OU1, including GP01-18 (at Valley Asphalt property)[6], GP02-09 and GP28-18 (both located within the central portion of OU1). Total combustible gases were not detected above the 5% threshold at any of the remaining soil gas probes, with the exception of GP07-18 (at Jim City property).
- At GP07-18, a significant difference between the unfiltered and filtered results was identified (5.2% and 0.2%, respectively), and the filtered results are well below the 5% threshold for methane. This finding indicates that the instrument readings for total combustible gases (unfiltered methane) are affected by the presence of other hydrocarbons, and methane is not present above the 5% threshold, at GP07-18.

Field parameter monitoring for organic vapors, carbon dioxide, oxygen, and hydrogen sulfide completed in three monitoring rounds in 2018 are summarized below:

- Organic vapor readings, measured using a PID, were typically less than 25 ppm during all three rounds. The greatest readings were recorded at GP07-18 located at Jim City property (up to 205 ppm, in August/September 2018).
- Carbon dioxide levels ranged from 0 to 16.4%, and oxygen levels ranged from 0 to 21.4%.
- Hydrogen sulfide was detected at eight soil gas probe locations in the August/September monitoring round (max of 8 ppm at GP02-09), and at five soil gas probe locations in the

[6] Two soil gas probes at Valley Asphalt that are no longer accessible (GP17-09 and GP18-09) identified the presence of combustible gas prior to 2018 but current conditions have not been assessed.

November 2018 monitoring round (max of 4.3 ppm at USEPA GP-7 (west)). Hydrogen sulfide was not detected during the March 2018 monitoring round.

Soil Gas Probe Sampling and Analysis:

GHD completed soil gas sampling for VOC analysis, using 32 GHD soil gas probes[7] in August 2018. The detected VOCs in soil gas samples were compared to vapor intrusion screening levels (VISLs) for commercial use. The results are summarized in Table 6.1.

Table 6.1 Summary of Soil Gas VOCs Results for Parameters that Exceed Commercial Screening Criteria – August 2018 Sampling Event

Soil Gas Probe	Location	VOCs detected (with concentration > than commercial screening criteria)	Concentration (µg/m^3)
GP01-18	Northern area – EU16 (Valley Asphalt)	Benzene	2,200 / 2,100
		Chlorobenzene	110,000 / 110,000
		Ethylbenzene	500 / 500
		Vinyl Chloride	1,000 / 960
GP02-09	Central area – EU19	--	
GP03-09	Central area – EU19	TCE	120
GP04-09	Central area – EU19	--	
GP05-09	Central area – EU19	--	
GP06-09	East River Road – parcel 3261	--	
GP07-18	Southern area – EU3 (Jim City)	1,2,4-trimethylbenzene	8,400
		Benzene	110,000
		Cyclohexane	230,000
		Ethylbenzene	140,000
		Hexane	630,000
		Isopropyl benzene	9,800
		N-Heptane	1,100,000
		o-xylene	180,000
		Toluene	1,700,000
		Xylenes	770,000
GP09-09	Southern area – EU5 to EU8	TCE	690
GP10-09	Southern area – EU5 to EU8	TCE	34
GP11-09	Central area – EU9	--	
GP12-09	Central area – EU11	TCE	690
GP13-09	Central area – EU12	1,1-DCA	310
GP14-09	Central area – EU13	TCE	520 / 510
GP15-09	Northern area – EU14	1,1-DCA	3,200
		TCE	3,400
GP16-09	Northern area – EU15	Vinyl chloride	370
GP19-18	Northern area – EU15	Vinyl chloride	2,500
GP20-18	Northern area – EU15	TCE	6,700

[7] Two soil gas probes (GP08-19 and GP35-19) were installed in 2019 and have not been sampled yet.

Table 6.1 Summary of Soil Gas VOCs Results for Parameters that Exceed Commercial Screening Criteria – August 2018 Sampling Event

Soil Gas Probe	Location	VOCs detected (with concentration > than commercial screening criteria)	Concentration (µg/m^3)
GP21-09	Central area – EU19	--	
GP22-13	Northern area – EU15	--	
GP23-13	Central area – EU11	TCE	600
GP24A-13	Central area – EU11	--	
GP24B-13	Central area – EU11	--	
GP25-18	Central area – EU19	--	
GP26-18	Central area – EU19	TCE	110
GP27-18	Central area – EU19	1,4-dichlorobenzene	74
		Benzene	410
		Chlorobenzene	9,200
GP28-18	Central area – EU19	Benzene	87 / 120
		Chlorobenzene	1,700 / 2,200
		Vinyl chloride	160 / 200
GP29-18	Central area – EU19	--	
GP30-18	Northern area – EU14	--	
GP31-18	Northern area – EU14	Chloroform	110
		TCE	27,000
GP32-18	Northern area – EU16	TCE	590
GP33-18	Northern area – EU15	--	
GP34-18	East River Road – parcel 3207	--	

As shown in Table 6.1, the analytical results indicate variable presence of VOCs. The locations with the greatest detected VOC concentrations include GP07-18 (Jim City) and GP01-18 (Valley Asphalt), and significantly lower concentration were detected at the remaining locations. The spatial distribution of the VOCs results is indicative of localized areas of soil gas impact at GP01-18 and GP07-18 potentially related to operations being conducted within the respective properties.

TCE is the most frequently detected and broadly distributed VOC with concentrations exceeding commercial screening criteria, in 11 soil gas probes. Other VOCs that were detected at concentrations exceeding commercial screening criteria exhibit a more isolated distribution.

The screening comparison identified VOC concentrations greater than residential screening criteria at 26 soil gas probe locations, as identified in Appendix H. Potential residential exposure within OU1 is limited to one location, i.e., the elevated mobile home structure located on Parcel non-responsive shown on Figure 2.5).

GHD recommendations provided in the April 22, 2019 Phase 1 soil gas investigation report (Appendix H) are reproduced below (in italics):

- *Regarding* non-responsive *), inform the property owner of the findings based on the 2018 soil gas sampling results*

- *Regarding Parcel 3753 (Jim City property), inform the property owner of the findings based on the 2018 soil gas sampling results*
- *Complete the installation of the proposed soil gas probe within the East River Road property subject to obtaining property access or selection of a suitable alternate location*
- *Collect crawl space and outdoor ambient air samples from* non-responsive *(mobile home structure) during the July VI sampling event, subject to property owner agreement.*
- *Collect soil gas sample from GP08-19 and GP35-19 for analysis of VOCs during the July VI sampling event.*
- *Complete the soil gas data assessment in accordance with the RI/FS Work Plan.*

GHD is in process of implementing the above recommendations.

USEPA provided comments on the April 22 report via e-mail on May 9, 2019 reproduced below (in italics):

1. *Because access to install GP36-18 doesn't seem likely, consider installing it on Parcel 3256 near the residence of concern (Building 31).*
2. *Table 3 shows soil gas contained 600 µg/m^3, 690 µg/m^3, 6,700 µg/m^3, 27,000 µg/m^3 of TCE at sample locations GP23-13, GP12-09, GP20-18, and GP31-18, respectively. These concentrations exceed both the U.S. EPA commercial sub-slab vapor intrusion screening level and the Ohio EPA commercial accelerated response action level. EPA recommends installing three soil gas probes to the east of Dryden Rd. on Parcel 3061 to determine the extent of TCE contamination in soil gas and if additional vapor intrusion investigation is needed for buildings located on this parcel.*

GHD notes that item 1 above is under consideration consistent with the recommendations of the April 22 report. With regard to Item 2, Region 5 Office of Regional Counsel (ORC) and counsel to the Respondents are addressing this request.

7. Summary and Recommendations

7.1 Summary

The OU1 soil/fill material has been extensively investigated as described in Sections 2 through 4 of this report, meeting the OU1 soil/fill investigation objectives and providing the information needed for Site characterization. Sections 5 and 6 of this report provide assessment of soil/fill analytical data and soil gas data, respectively. The results of the assessment and additional comments are summarized below.

OU1 Soil/fill

- GHD conducted an initial assessment of the OU1 soil/fill data involving comparison of analytical results to human health screening criteria (RSLs) for each exposure unit, with the following modifications:

- EU3 and EU4 were examined both separately and combined, based on property ownership and land use.
- EU5, EU6, EU7, and EU8 were combined based on property ownership and land use.
- EU18 was combined with EU19 for purposes of human health screening, since EU18 is wholly located within EU19.

- The assessment considered two media, surface soil (0 to 2 feet BGS) and soil (0 to 15 feet BGS) to identify preliminary COPCs based on USEPA risk assessment guidance. For surface soil (0 to 2 feet BGS) all EUs were assessed. For soil (0 to 15 feet BGS) all EUs were assessed except the undeveloped parcels (including EU1, EU2, EU17, EU18, and EU19) per the RI/FS Work Plan.
- EPCs were calculated for each preliminary COPC based on USEPA risk assessment guidance. The calculated EPCs were examined to determine reasonableness with respect to data distribution.
- Preliminary COPCs were identified for organic and inorganic parameters for all exposure units with the exception of EU2 (inorganics only). Based on review of the information provided for each exposure unit GHD identified four exposure units (EU3, EU4, EU9, and EU13) where individual EPCs are notably elevated with respect to maximum detected concentrations, as follows:
  - In EU3 surface soil, EPCs for several parameters (13 SVOCs and two metals) exceed the respective maximum detected concentrations due to data distribution. In EU4 surface soil, EPCs for some SVOCs and metals marginally exceed the respective maximum detected concentrations. When EU3 and EU4 datasets are combined, none of the EPCs exceed the maximum concentrations.
  - In EU9 surface soil, EPCs for six SVOCs exceed the respective maximum detected concentrations due to data distribution.
  - In EU13 surface soil, EPCs for one VOC and three SVOCs exceed the respective maximum detected concentrations due to data distribution. In addition, the EPC for one PCB parameter significantly exceeds the maximum detected concentration.
- GHD proposes to assess the significance of the elevated EPCs noted above through the HHRA process, to identify potential uncertainties. GHD does not propose any additional soil/fill sampling pending identification of significant uncertainties based on the HHRA process.
- Comparison of soil/fill analytical results with other criteria, i.e., ESVs and Soil Screening Levels (SSLs) remains to be completed. The ESV comparison will be presented with the SLERA. The SSL comparison will be presented with the Site Characterization Technical Memorandum for the groundwater investigation.

Floodplain Soil

- Floodplain soil samples were collected at 12 locations adjacent to OU1, and eight locations upstream of the Site. Soil samples at each location were typically collected from two depth intervals (0 to 0.5 feet BGS and 0.5 to 2 feet BGS).
- The analytical results for soil samples collected adjacent to OU1 were compared to residential RSLs. Parameters that were detected with maximum concentrations greater than RSLs include SVOCs (four); metals (seven); and PCBs (two). Most of these parameters were also detected in the upstream samples.

- Variability in the detected concentrations of individual compounds is apparent, within the soil samples collected adjacent to OU1, and in comparison, to the upstream samples. For the samples collected adjacent to OU1, detected concentrations of multiple parameters are greater within the segment adjacent to the Valley Asphalt property, compared to the adjacent segments, to the north and south. The detected concentrations of some parameters are similar to or greater in the upstream samples compared to the samples collected adjacent to OU1.
- The analytical results were also compared to ESVs. Parameters that were detected with maximum concentrations greater than ESVs in soil samples collected adjacent to OU1 include VOCs (two), SVOCs (20), pesticides (seven), herbicides (one), metals (18), and cyanide. Many of these parameters were also detected in upstream soil samples.
- The results demonstrate that presence of multiple parameters (VOCs, cyanide, pesticides, and herbicides) is not significant due to the limited number of detections and low concentrations compared to the screening values.
- In accordance with the RI/FS work plan, additional characterization is required due to the presence of parameters at concentrations greater than relevant screening criteria in soil samples collected adjacent to OU1. GHD proposes to collect additional floodplain soil samples for analysis of SVOCs, metals, and PCBs.

Soil Gas

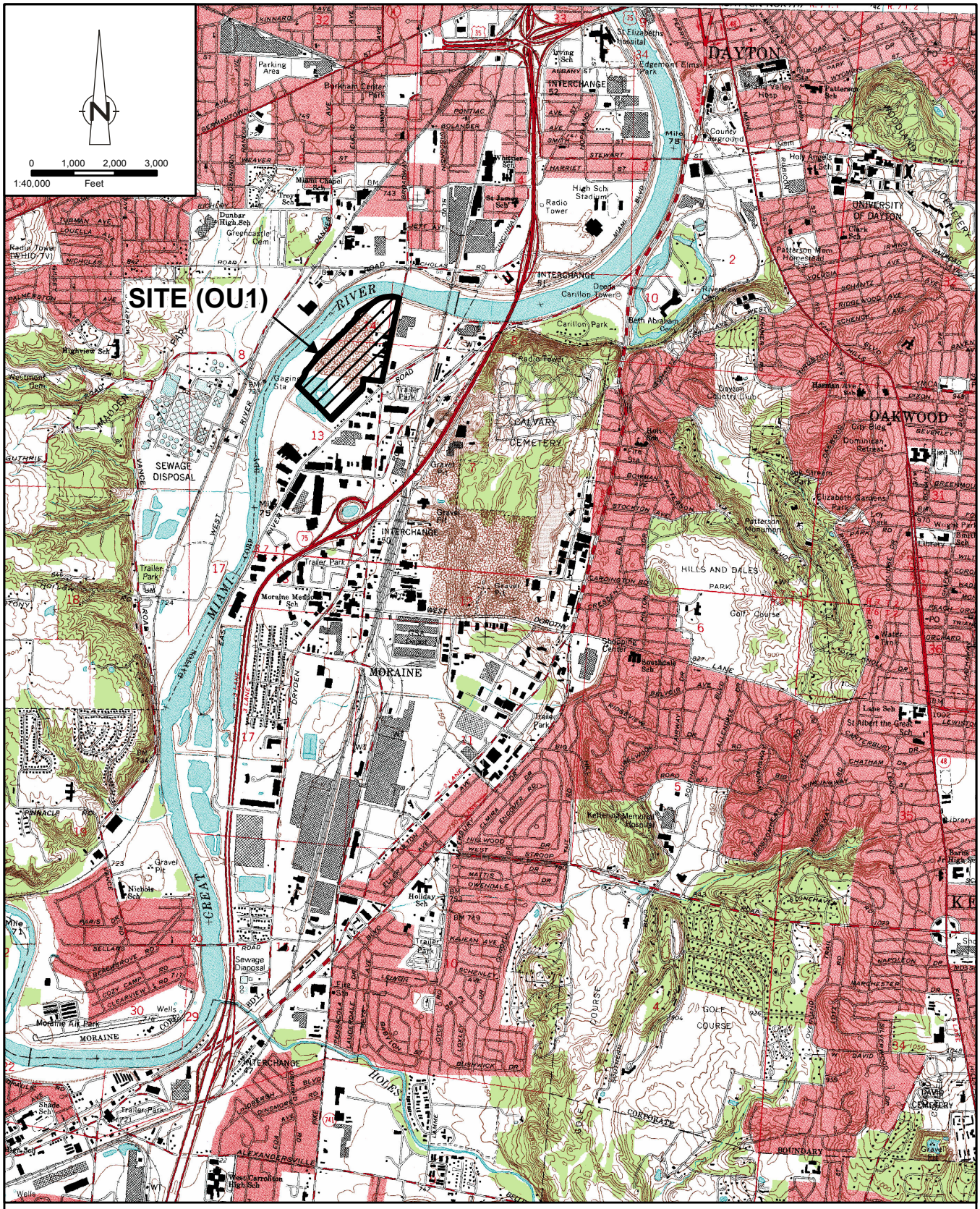
- Soil gas conditions have been characterized including field monitoring and VOCs sampling using existing and new soil gas probes.
- Combustible gas monitoring conducted before 2018 indicate presence of total combustible gases and methane at six on-site soil gas probes exceeding the LEL for methane, i.e., 5%. Three of these locations are within Valley Asphalt property and the remaining three are within the central portion of OU1.
- Combustible gas monitoring conducted in 2018 indicates concentrations greater than 5% exist at three locations within the northern and central portions of OU1, including Valley Asphalt property and the central portion of OU1. Total combustible gases were not detected above the 5% threshold at any of the remaining soil gas probes with the exception of GP07-18 (at Jim City property). At GP07-18 the combustible gas readings are affected by the presence of other hydrocarbons, and methane is not present above the 5% threshold.
- The analytical results for soil gas samples indicate variable presence of VOCs. The locations with the greatest detected VOC concentrations include GP07-18 (Jim City) and GP01-18 (Valley Asphalt), and significantly lower concentration were detected at the remaining locations. The results are indicative of localized areas of soil gas impact at GP01-18 and GP07-18 potentially related to operations being conducted within the respective properties.
- TCE is the most frequently detected and broadly distributed VOC with concentrations exceeding commercial screening criteria, in 11 soil gas probes. Other VOCs that were detected at concentrations exceeding commercial screening criteria exhibit a more isolated distribution.
- The screening comparison identified VOC concentrations greater than residential screening criteria at 26 soil gas probe locations. Potential residential exposure within OU1 is limited to one location, i.e., the elevated mobile home structure located on [redacted]

- GHD recommendations for the soil gas investigation were presented in a previous report submission, see Section 6.

7.2 Recommendations

GHD recommendations based on the preceding are as follows:

1. Use available OU1 soil/fill data as input to the HHRA process, including further assessment of the data distribution within individual exposure units to identify potential uncertainties or data gaps.
2. Conduct screening using OU1 soil/fill data relative to ESVs and SSLs, in support of the ecological risk assessment and the groundwater investigation.
3. Conduct additional floodplain soil sampling to further characterize concentrations of SVOCs, metals, and PCBs in soil adjacent to OU1. GHD will prepare a work plan addendum for agency review and approval, in order to complete the sampling in fall of 2019.
4. Conduct additional soil background sampling at Madden Golf Course subject to obtaining access, or other suitable location if possible.
5. Complete the soil gas investigation including installation of one soil gas probe (GP36) at East River Road, subject to obtaining property access; and VOC (TO-15) sampling for soil gas probes not previously sampled (GP35-19, GP08-19) and GP36 (when installed). Also complete the second round of TO-15 sampling as required by the RI/FS Work Plan, and the recommended actions outlined in the GHD letter dated April 22, 2019.

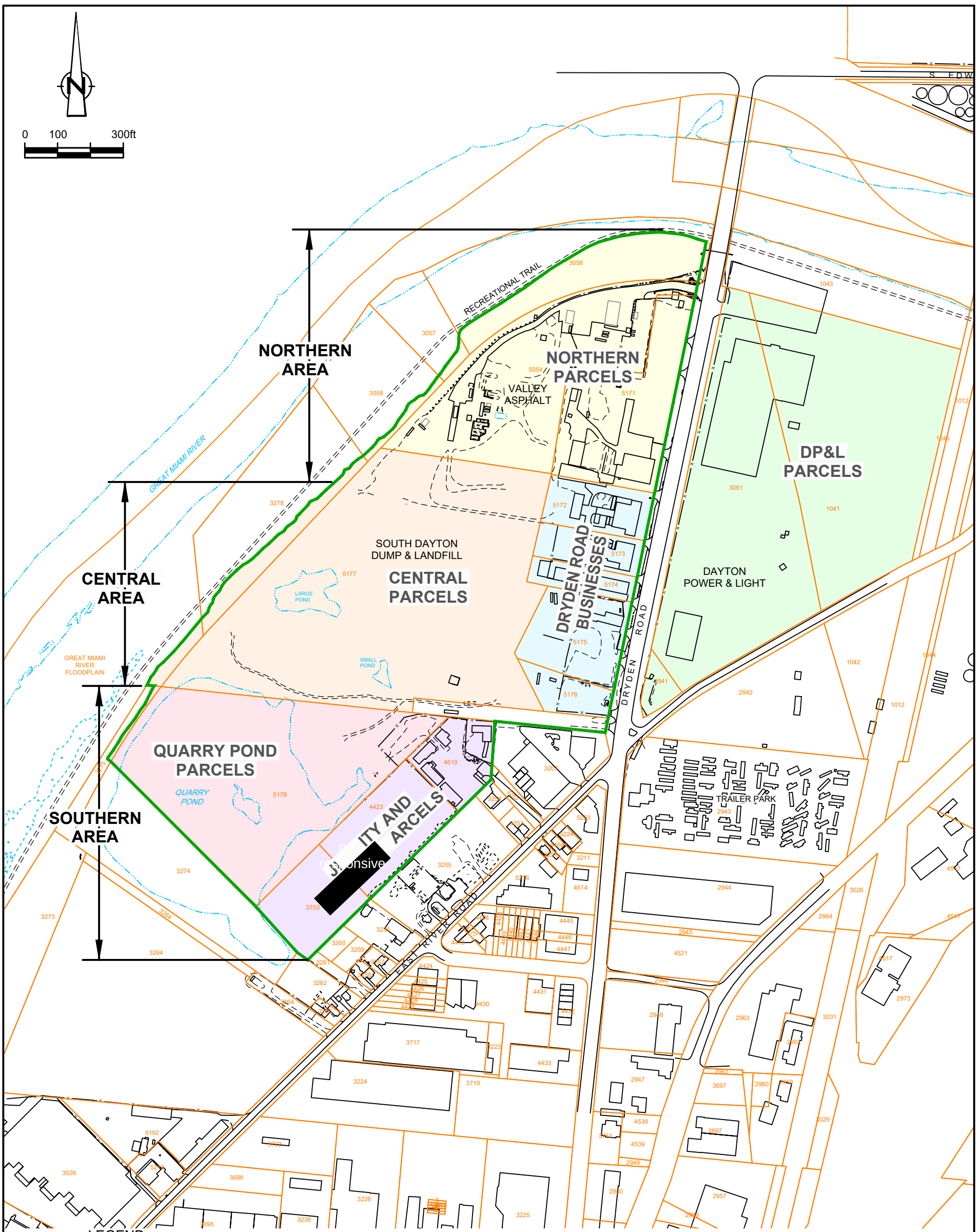


Base Data: Dayton South USGS Quad Image
Coordinate System: NAD 1983 StatePlane Ohio South FIPS 3402 Feet

figure 1.1

SITE LOCATION MAP
SOUTH DAYTON DUMP & LANDFILL SITE
Moraine, Ohio

038443-320(033)GIS-OT007 Jun 28/2019



LEGEND

- EDGE OF WATER
- PARCEL BOUNDARY
- 3224 PARCEL NUMBER
- OPERABLE UNIT ONE (OU1) BOUNDARY (APPROXIMATE)

figure 1.2

OPERABLE UNIT ONE (OU1) BOUNDARY
SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

GHD

SOURCES:
THE PAYNE FIRM, INC., PROJECT 0279.44.05, FIGURE 1, DATED 9/12/05;
TETRA TECH EM INC., PROJECT L0312006-SOUTH DAYTON DUMP, FIGURE 2, SITE LAYOUT, 05/25/2004;
CITY OF MORAINE.
ABRAMS AERIAL SURVEY INC. PROJECT 38443, AASI 29610, 04/02/2008

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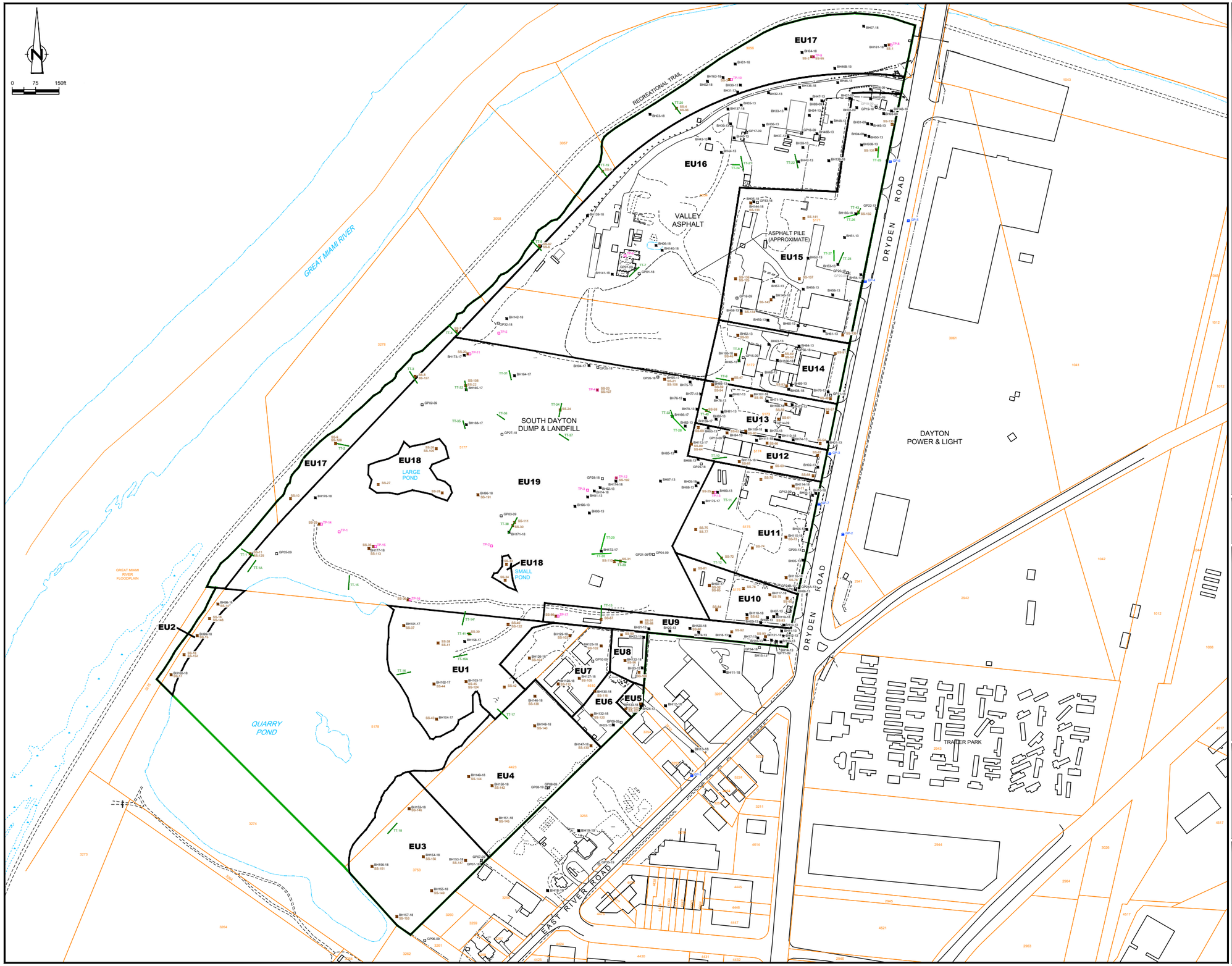

Nº	Revision	Date	Initial

LEGEND

- EDGE OF WATER
- PARCEL BOUNDARY
- 3224 PARCEL NUMBER
- OPERABLE UNIT ONE (OU1) BOUNDARY (APPROXIMATE)
- EXPOSURE UNIT
- TP-1 TEST PIT LOCATION
- TT-1 TEST TRENCH LOCATION
- BH01-18 BOREHOLE LOCATION
- SS-2 SURFICIAL SOIL LOCATION
- GP01-18 EXISTING LANDFILL GAS PROBE
- GP01-18 NOT FOUND LANDFILL GAS PROBE
- GP01-18 ABANDONED LANDFILL GAS PROBE
- GP-1 USEPA NESTED SOIL GAS PROBE LOCATION

NOTE:
This drawing shows locations where a soil sample was submitted for chemical analysis.

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

DRAWING STATUS

Status	Date	Initial

SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

SOIL/FILL AND SOIL GAS PROBE SAMPLING LOCATIONS

GHD

Source Reference:

Project Manager:	Reviewed By:	Date: DATE	
Scale: 1:150	Project Nº: 38443-320	Report Nº: 033	Drawing Nº: figure 2.1

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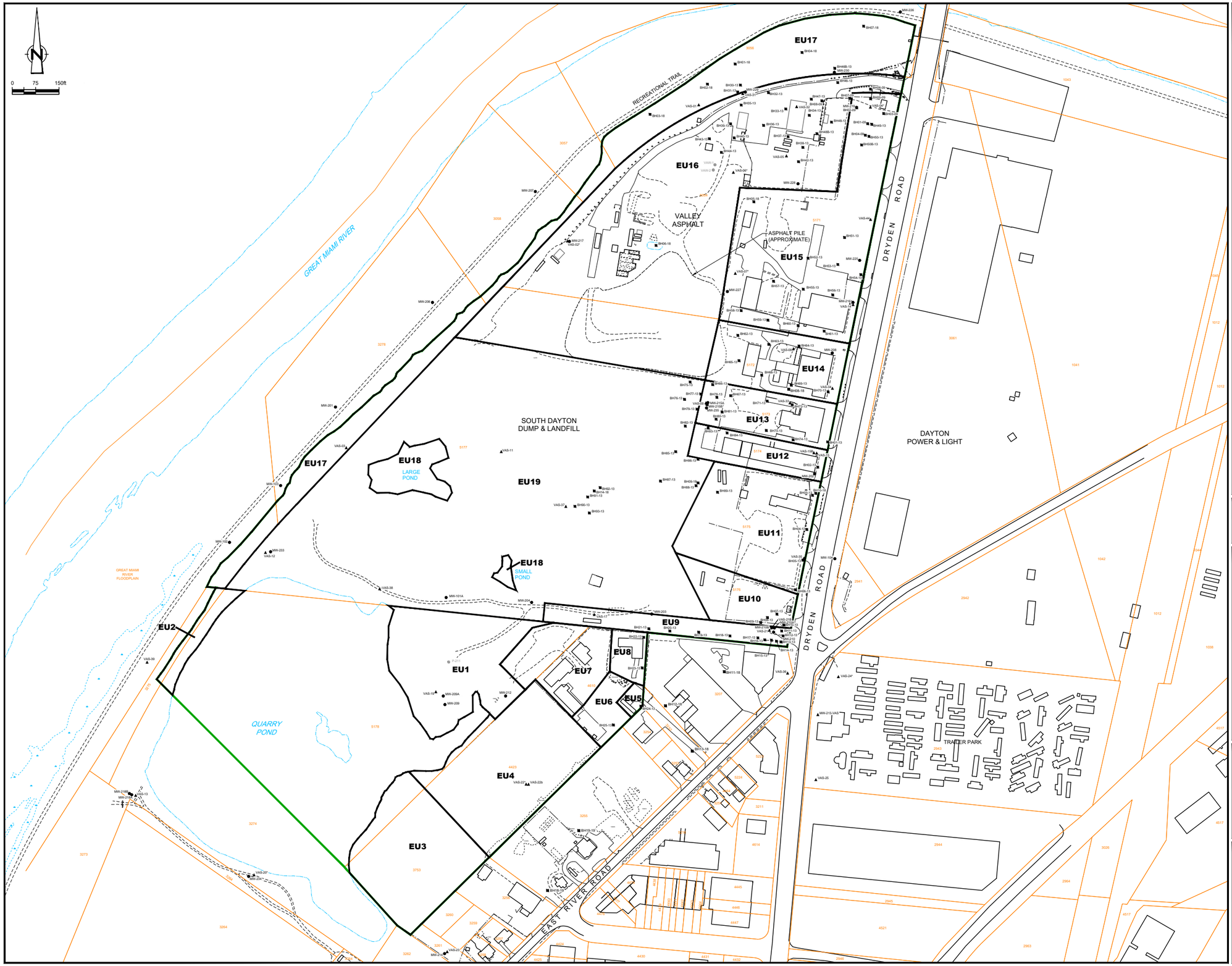


NO	Revision	Date	Initial

LEGEND

- EDGE OF WATER
- PARCEL BOUNDARY
- 3224 PARCEL NUMBER
- OPERABLE UNIT ONE (OU1) BOUNDARY (APPROXIMATE)
- EXPOSURE UNIT
- MW-206 MONITORING WELL LOCATION
- MW-102 ABANDONED WELL LOCATION
- BH01-18 BOREHOLE LOCATION
- VAS-01 VERTICAL AQUIFER SAMPLING LOCATION
- P-211 PIEZOMETER LOCATION
- * VAS LOCATION COMPLETED TO 70 FEET BELOW GROUND SURFACE OR LESS

NOTE:
This drawing shows locations where a soil sample was submitted for chemical analysis.

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

DRAWING STATUS

Status	Date	Initial

SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

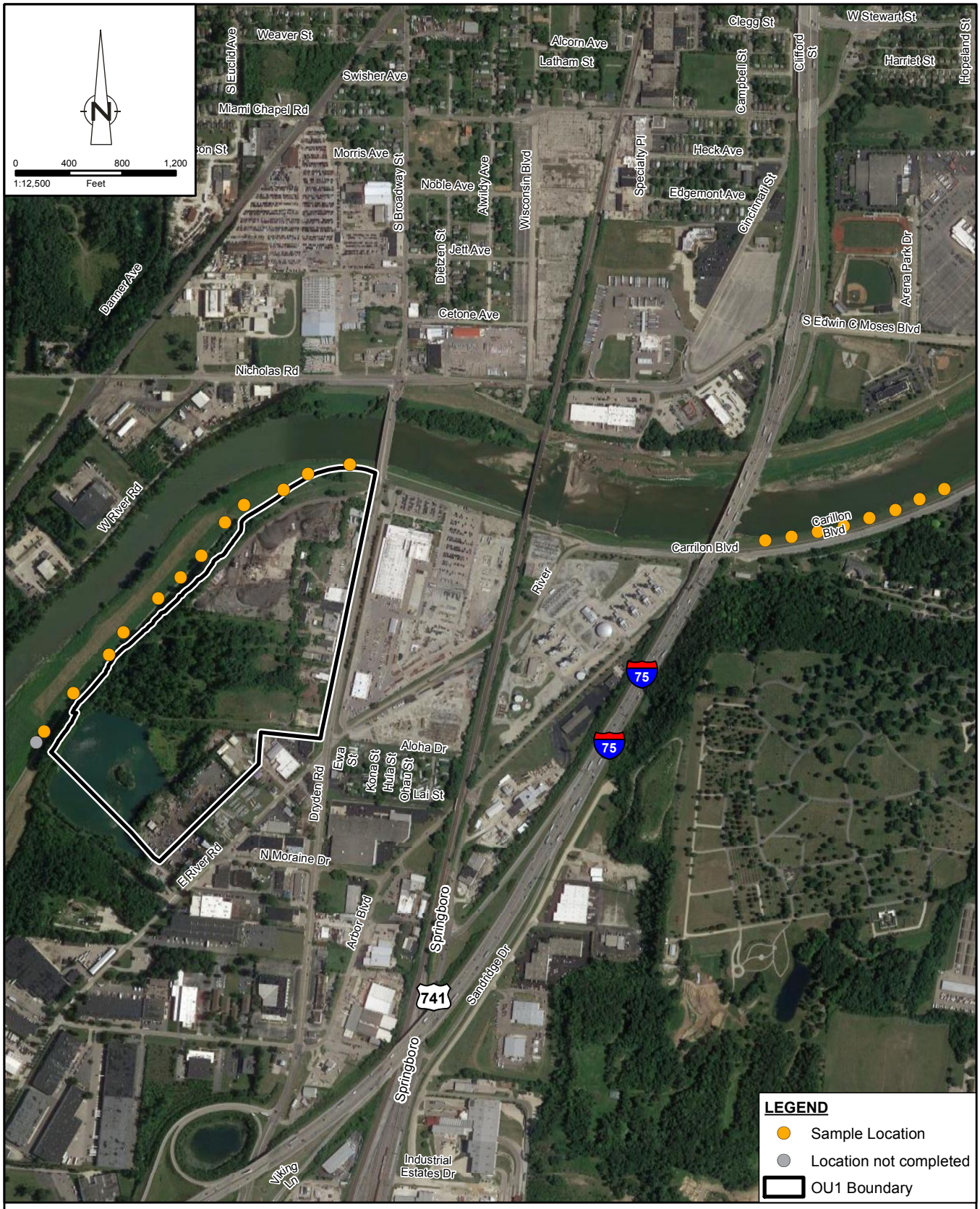
GROUNDWATER INVESTIGATIVE LOCATIONS

GHD

Source Reference:

Project Manager:	Reviewed By:	Date: DATE	
Scale: 1:150	Project Nº: 38443-320	Report Nº: 033	Drawing Nº: figure 2.2

P:\drawings\38000s\38443\38443-REPORTS\38443-320(033)\38443-320(033)GN\38443-320(033)GN-WA024.DWG Plot Date: JUN 28, 2019

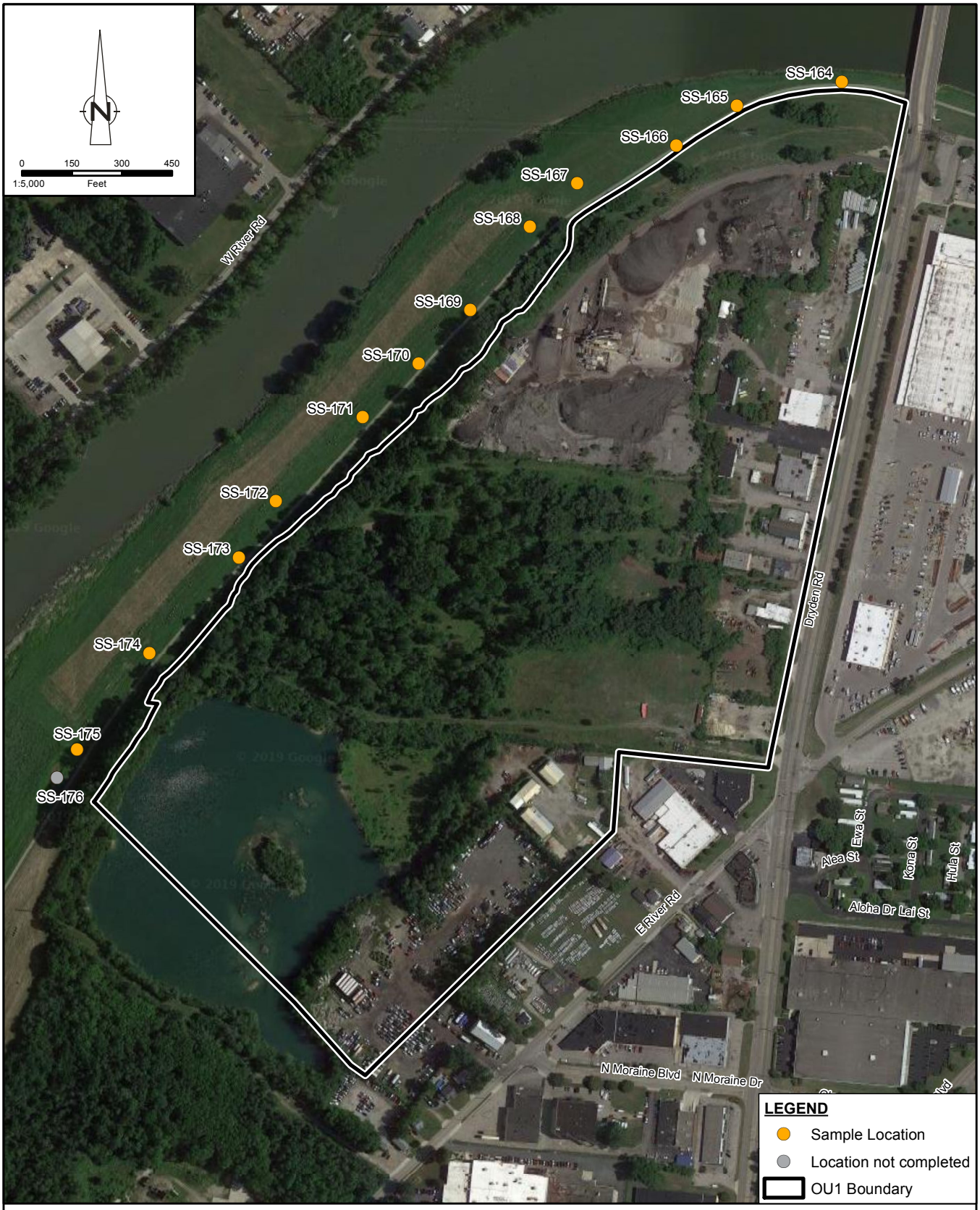


Source: Image ©2019 Google, 07/10/2018
Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet

figure 2.3a

GREAT MIAMI RIVER FLOODPLAIN SAMPLE LOCATIONS
SOUTH DAYTON DUMP & LANDFILL SITE
Moraine, Ohio

038443-320(033)GIS-OT008 Jun 28/2019

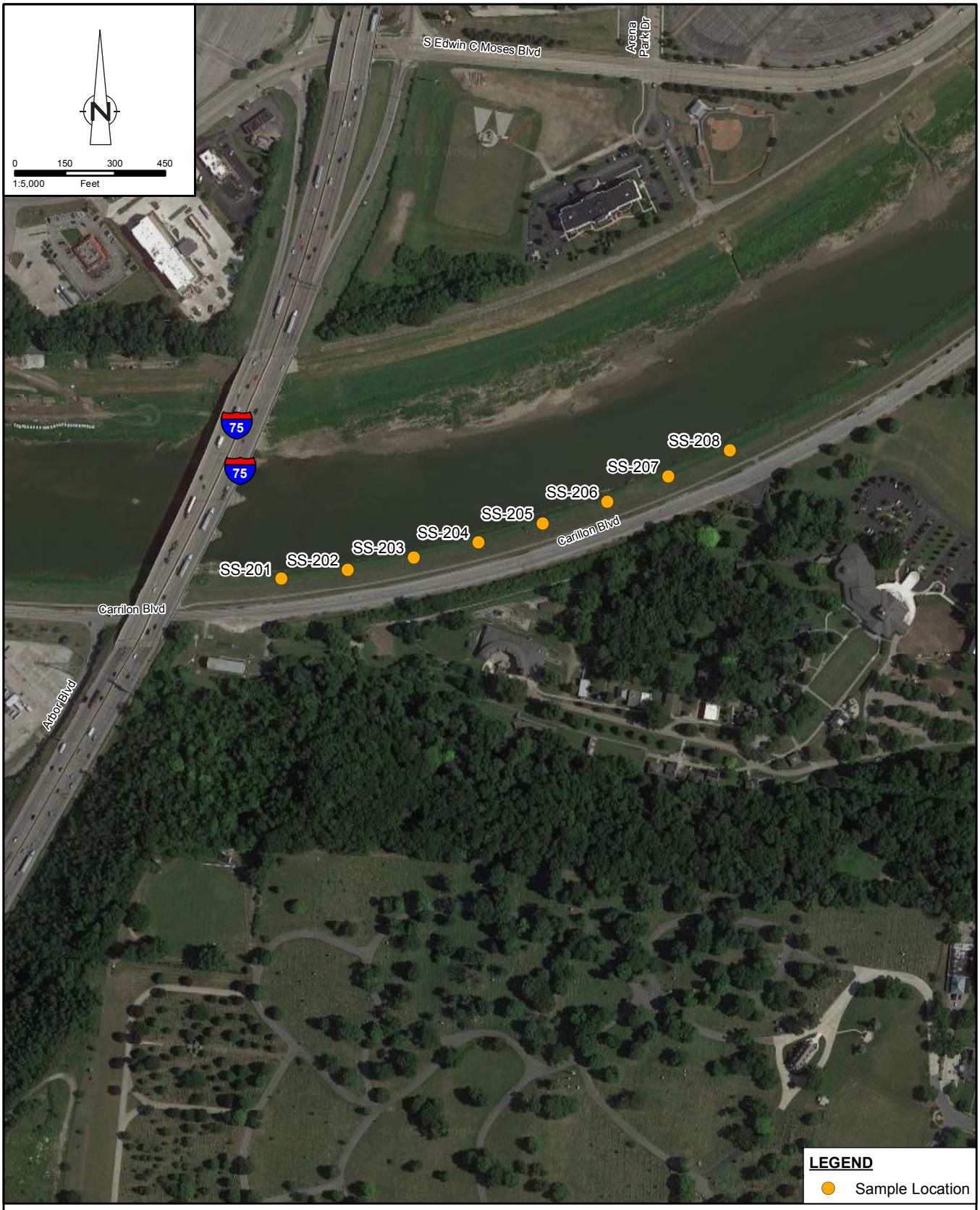


Source: Image ©2019 Google, 07/10/2018
Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet

figure 2.3b

FLOODPLAIN SOIL SAMPLE LOCATIONS – ADJACENT TO OU1
SOUTH DAYTON DUMP & LANDFILL SITE
Moraine, Ohio

038443-320(033)GIS-OT009 Jun 28/2019



Source: Image ©2019 Google, 07/10/2018
Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet

figure 2.3c

FLOODPLAIN SOIL SAMPLE LOCATIONS – UPSTREAM
SOUTH DAYTON DUMP & LANDFILL SITE
Moraine, Ohio

038443-320(033)GIS-OT010 Jun 28/2019

Source: Image ©2019 Google, 07/10/2018
Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet

figure 2.4a

BACKGROUND SOIL SAMPLE AREA – ORA EVERETT PARK
SOUTH DAYTON DUMP & LANDFILL SITE
Moraine, Ohio

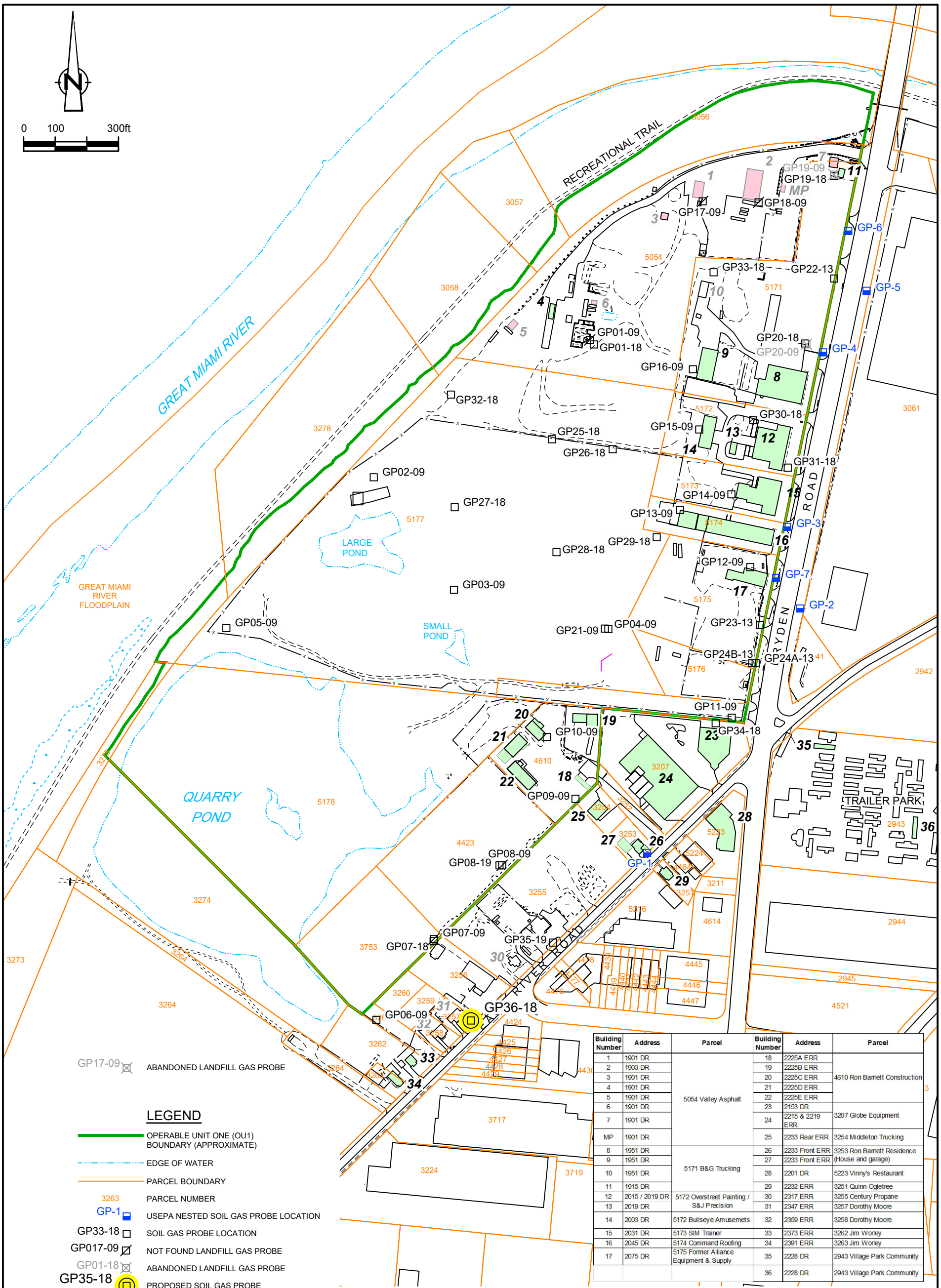
038443-320(033)GIS-OT012 Jun 28/2019

Source: Image ©2019 Google, 07/10/2018
Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet

figure 2.4b

BACKGROUND SOIL SAMPLE LOCATIONS
SOUTH DAYTON DUMP & LANDFILL SITE
Moraine, Ohio

038443-320(033)GIS-OT011 Jun 28/2019



Building Number	Address	Parcel	Building Number	Address	Parcel
1	1901 DR	5054 Valley Asphalt	18	2225A ERR	4610 Ron Barnett Construction
2	1903 DR		19	2225B ERR	
3	1901 DR		20	2225C ERR	
4	1901 DR		21	2225D ERR	
5	1901 DR		22	2225E ERR	
6	1901 DR		23	2153 DR	3207 Globe Equipment
7	1901 DR		24	2215 & 2219 ERR	
MP	1901 DR		25	2233 Rear ERR	3254 Middleton Trucking
8	1951 DR	5171 B&G Trucking	26	2233 Front ERR	3253 Ron Barnett Residence (House and garage)
9	1951 DR		27	2233 Front ERR	
10	1951 DR		28	2201 DR	5223 Vinny's Restaurant
11	1915 DR		29	2232 ERR	3251 Quinn Ogletree
12	2015 / 2019 DR	5172 Overstreet Painting / S&J Precision	30	2317 ERR	3255 Century Propane
13	2019 DR		31	2347 ERR	3257 Dorothy Moore
14	2003 DR	5172 Bullseye Amusemets	32	2359 ERR	3258 Dorothy Moore
15	2031 DR	5173 SIM Trainer	33	2373 ERR	3262 Jim Worley
16	2045 DR	5174 Command Roofing	34	2391 ERR	3263 Jim Worley
17	2075 DR	5175 Former Alliance Equipment & Supply	35	2228 DR	2943 Village Park Community
			36	2228 DR	2943 Village Park Community

NOTE:
CRITERIA FOR METHANE IS 5%

SOURCES:
THE PAYNE FIRM, INC., PROJECT 0279.44.05, FIGURE 1, DATED 9/12/05;
TETRA TECH EM INC., PROJECT L0312006-SOUTH DAYTON DUMP, FIGURE 2, SITE LAYOUT, 05/25/2004;
CITY OF MORAINE.
ABRAMS AERIAL SURVEY INC. PROJECT 38443, AASI 29610, 04/02/2008

figure 2.5

SOIL GAS PROBE LOCATIONS
SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

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LEGEND

- Surficial Soil Location
- Test Pit Location
- Borehole Location
- Existing Landfill Gas Probe
- Abandoned Landfill Gas Probe
- Not Found Landfill Gas Probe
- USEPA Nested Soil Gas Probe Location
- Test Trench Location
- Exposure Unit Boundary
- Parcel Boundary

Source: Image ©2019 Google, 07/10/2018
Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet

0 25 50
1:1,000 Feet

Figure 3.1

EU1 AREA MAP
SOUTH DAYTON DUMP & LANDFILL SITE
Moraine, Ohio

038443-320(033)GIS-OT001 Jun 28/2019

LEGEND

- Surficial Soil Location
- Test Pit Location
- Borehole Location
- Existing Landfill Gas Probe
- Abandoned Landfill Gas Probe
- Not Found Landfill Gas Probe
- USEPA Nested Soil Gas Probe Location
- Test Trench Location
- Exposure Unit Boundary
- Parcel Boundary

Source: Image ©2019 Google, 07/10/2018
Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet

N

0 10 20
1:650 Feet

Figure 3.2

EU2 AREA MAP
SOUTH DAYTON DUMP & LANDFILL SITE
Moraine, Ohio

038443-320(033)GIS-OT001 Jun 28/2019

LEGEND

- Surficial Soil Location
- Test Pit Location
- Borehole Location
- Existing Landfill Gas Probe
- Abandoned Landfill Gas Probe
- Not Found Landfill Gas Probe
- USEPA Nested Soil Gas Probe Location
- Test Trench Location
- Exposure Unit Boundary
- Parcel Boundary

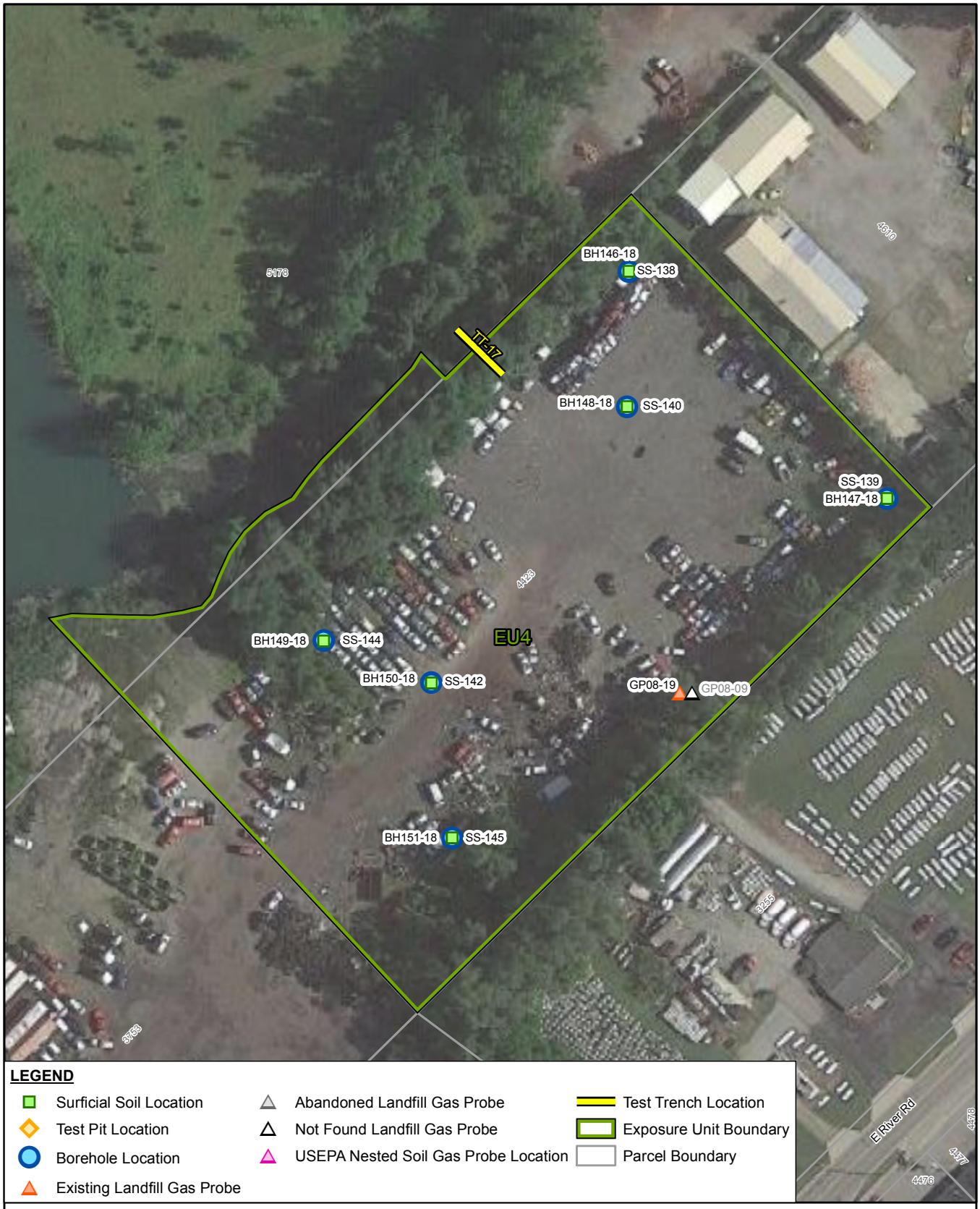
Source: Image ©2019 Google, 07/10/2018
Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet

0 25 50
1:1,000 Feet

Figure 3.3

EU3 AREA MAP
SOUTH DAYTON DUMP & LANDFILL SITE
Moraine, Ohio

038443-320(033)GIS-OT001 Jun 28/2019



LEGEND

- Surficial Soil Location
- Test Pit Location
- Borehole Location
- Existing Landfill Gas Probe
- Abandoned Landfill Gas Probe
- Not Found Landfill Gas Probe
- USEPA Nested Soil Gas Probe Location
- Test Trench Location
- Exposure Unit Boundary
- Parcel Boundary

Source: Image ©2019 Google, 07/10/2018
Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet

0 30 60
1:1,160 Feet

Figure 3.4

EU4 AREA MAP
SOUTH DAYTON DUMP & LANDFILL SITE
Moraine, Ohio

038443-320(033)GIS-OT001 Jun 28/2019

LEGEND

- Surficial Soil Location
- Test Pit Location
- Borehole Location
- Existing Landfill Gas Probe
- Abandoned Landfill Gas Probe
- Not Found Landfill Gas Probe
- USEPA Nested Soil Gas Probe Location
- Test Trench Location
- Exposure Unit Boundary
- Parcel Boundary

Source: Image ©2019 Google, 07/10/2018
Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet

0 20 40
1:890 Feet

Figure 3.5

EU5, EU6, EU7, AND EU8 AREA MAP
SOUTH DAYTON DUMP & LANDFILL SITE
Moraine, Ohio

038443-320(033)GIS-OT001 Jun 28/2019

LEGEND

- Surficial Soil Location
- Test Pit Location
- Borehole Location
- Existing Landfill Gas Probe
- Abandoned Landfill Gas Probe
- Not Found Landfill Gas Probe
- USEPA Nested Soil Gas Probe Location
- Test Trench Location
- Exposure Unit Boundary
- Parcel Boundary

Source: Image ©2019 Google, 07/10/2018
Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet

N

0 40 80
1:1,500 Feet

Figure 3.6

EU9 AREA MAP
SOUTH DAYTON DUMP & LANDFILL SITE
Moraine, Ohio

038443-320(033)GIS-OT001 Jun 28/2019

LEGEND

- Surficial Soil Location
- Test Pit Location
- Borehole Location
- Existing Landfill Gas Probe
- Abandoned Landfill Gas Probe
- Not Found Landfill Gas Probe
- USEPA Nested Soil Gas Probe Location
- Test Trench Location
- Exposure Unit Boundary
- Parcel Boundary

Source: Image ©2019 Google, 07/10/2018
Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet

0 10 20
1:740 Feet

Figure 3.7

EU10 AREA MAP
SOUTH DAYTON DUMP & LANDFILL SITE
Moraine, Ohio

038443-320(033)GIS-OT001 Jun 28/2019

LEGEND

- Surficial Soil Location
- Test Pit Location
- Borehole Location
- Existing Landfill Gas Probe
- Abandoned Landfill Gas Probe
- Not Found Landfill Gas Probe
- USEPA Nested Soil Gas Probe Location
- Test Trench Location
- Exposure Unit Boundary
- Parcel Boundary

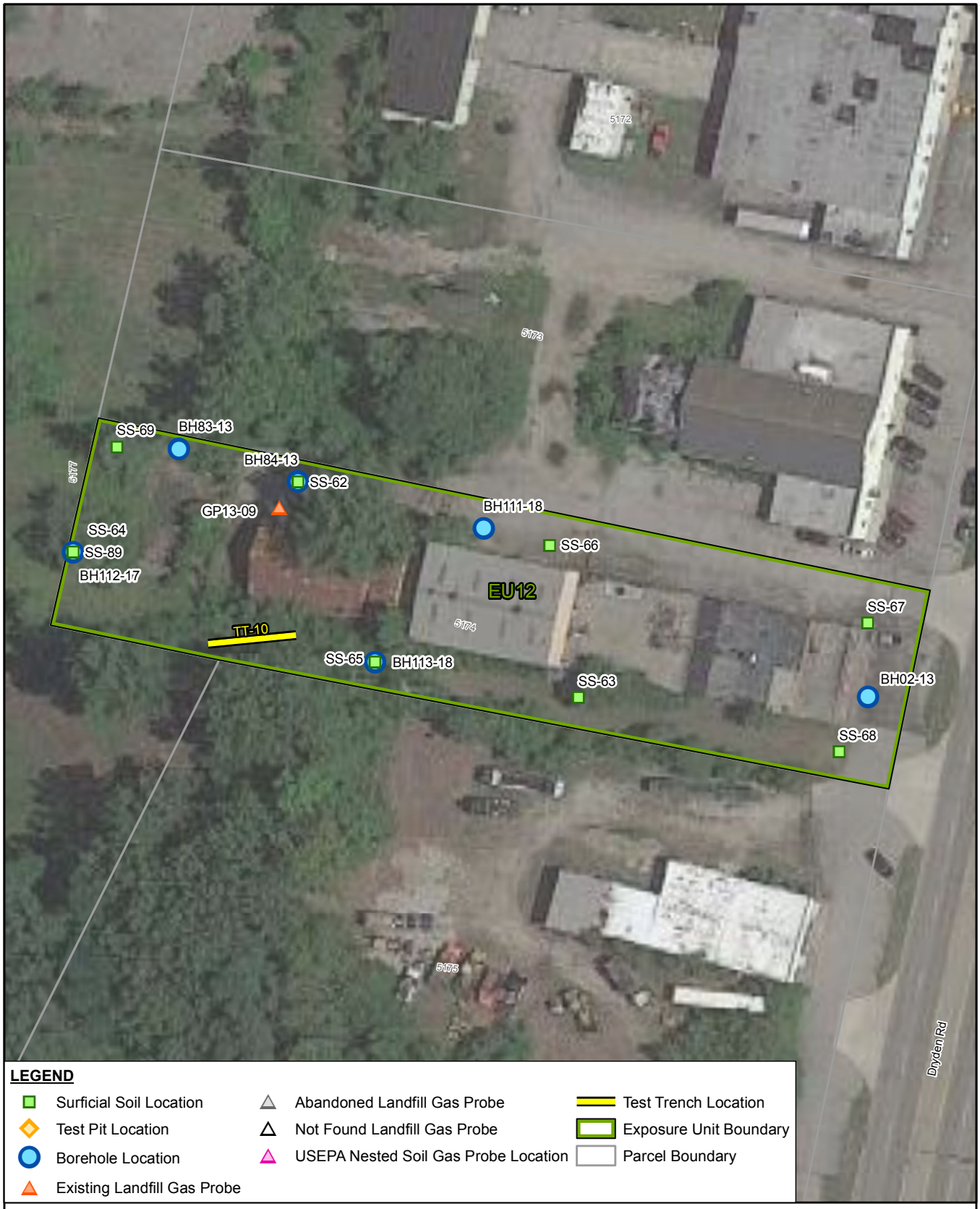
Source: Image ©2019 Google, 07/10/2018
Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet

0 20 40
1:900 Feet

Figure 3.8

EU11 AREA MAP
SOUTH DAYTON DUMP & LANDFILL SITE
Moraine, Ohio

038443-320(033)GIS-OT001 Jun 28/2019



LEGEND

- Surficial Soil Location
- Test Pit Location
- Borehole Location
- Existing Landfill Gas Probe
- Abandoned Landfill Gas Probe
- Not Found Landfill Gas Probe
- USEPA Nested Soil Gas Probe Location
- Test Trench Location
- Exposure Unit Boundary
- Parcel Boundary

Source: Image ©2019 Google, 07/10/2018
Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet

0 20 40
1:850 Feet

Figure 3.9

EU12 AREA MAP
SOUTH DAYTON DUMP & LANDFILL SITE
Moraine, Ohio

038443-320(033)GIS-OT001 Jun 28/2019

LEGEND

- Surficial Soil Location
- Test Pit Location
- Borehole Location
- Existing Landfill Gas Probe
- Abandoned Landfill Gas Probe
- Not Found Landfill Gas Probe
- USEPA Nested Soil Gas Probe Location
- Test Trench Location
- Exposure Unit Boundary
- Parcel Boundary

Source: Image ©2019 Google, 07/10/2018
Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet

0 20 40
1:860 Feet

Figure 3.10

EU13 AREA MAP
SOUTH DAYTON DUMP & LANDFILL SITE
Moraine, Ohio

038443-320(033)GIS-OT001 Jun 28/2019

LEGEND

- Surficial Soil Location
- Test Pit Location
- Borehole Location
- Existing Landfill Gas Probe
- Abandoned Landfill Gas Probe
- Not Found Landfill Gas Probe
- USEPA Nested Soil Gas Probe Location
- Test Trench Location
- Exposure Unit Boundary
- Parcel Boundary

Source: Image ©2019 Google, 07/10/2018
Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet

0 20 40
1:860 Feet

Figure 3.11

EU14 AREA MAP
SOUTH DAYTON DUMP & LANDFILL SITE
Moraine, Ohio

038443-320(033)GIS-OT001 Jun 28/2019

LEGEND

- Surficial Soil Location
- Test Pit Location
- Borehole Location
- Existing Landfill Gas Probe
- Abandoned Landfill Gas Probe
- Not Found Landfill Gas Probe
- USEPA Nested Soil Gas Probe Location
- Test Trench Location
- Exposure Unit Boundary
- Parcel Boundary

Source: Image ©2019 Google, 07/10/2018
Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet

0 30 60
1:1,350 Feet

Figure 3.12

EU15 AREA MAP
SOUTH DAYTON DUMP & LANDFILL SITE
Moraine, Ohio

038443-320(033)GIS-OT001 Jun 28/2019

LEGEND

- Surficial Soil Location
- Test Pit Location
- Borehole Location
- Existing Landfill Gas Probe
- Abandoned Landfill Gas Probe
- Not Found Landfill Gas Probe
- USEPA Nested Soil Gas Probe Location
- Test Trench Location
- Exposure Unit Boundary
- Parcel Boundary

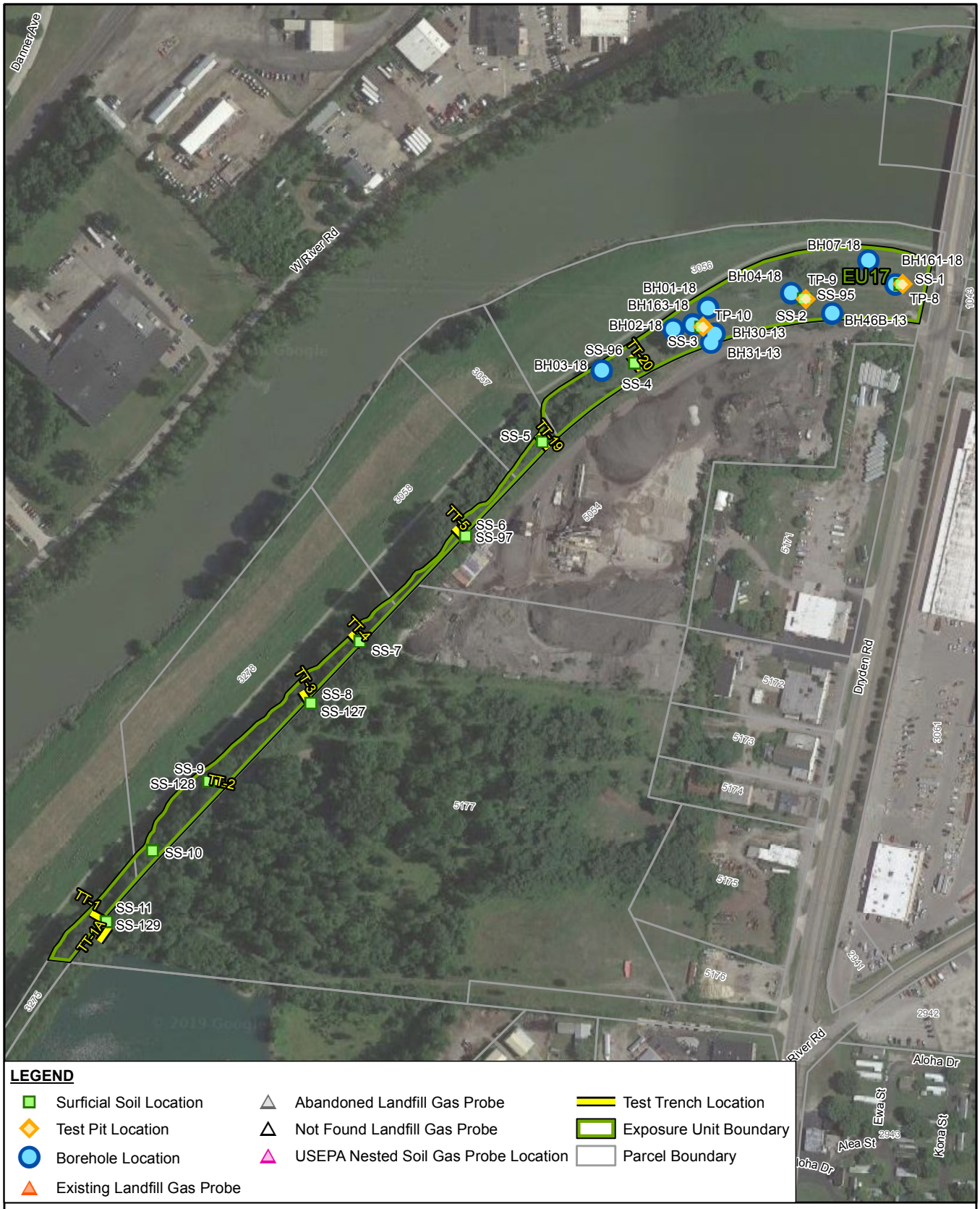
Source: Image ©2019 Google, 07/10/2018
Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet

0 70 140
1:2,700 Feet

Figure 3.13

EU16 AREA MAP
SOUTH DAYTON DUMP & LANDFILL SITE
Moraine, Ohio

038443-320(033)GIS-OT001 Jun 28/2019



LEGEND

- Surficial Soil Location
- Test Pit Location
- Borehole Location
- Existing Landfill Gas Probe
- Abandoned Landfill Gas Probe
- Not Found Landfill Gas Probe
- USEPA Nested Soil Gas Probe Location
- Test Trench Location
- Exposure Unit Boundary
- Parcel Boundary

Source: Image ©2019 Google, 07/10/2018
Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet

0 110 220
1:4,280 Feet

Figure 3.14

EU17 AREA MAP
SOUTH DAYTON DUMP & LANDFILL SITE
Moraine, Ohio

038443-320(033)GIS-OT001 Jun 28/2019

LEGEND

- Surficial Soil Location
- Test Pit Location
- Borehole Location
- Existing Landfill Gas Probe
- Abandoned Landfill Gas Probe
- Not Found Landfill Gas Probe
- USEPA Nested Soil Gas Probe Location
- Test Trench Location
- Exposure Unit Boundary
- Parcel Boundary

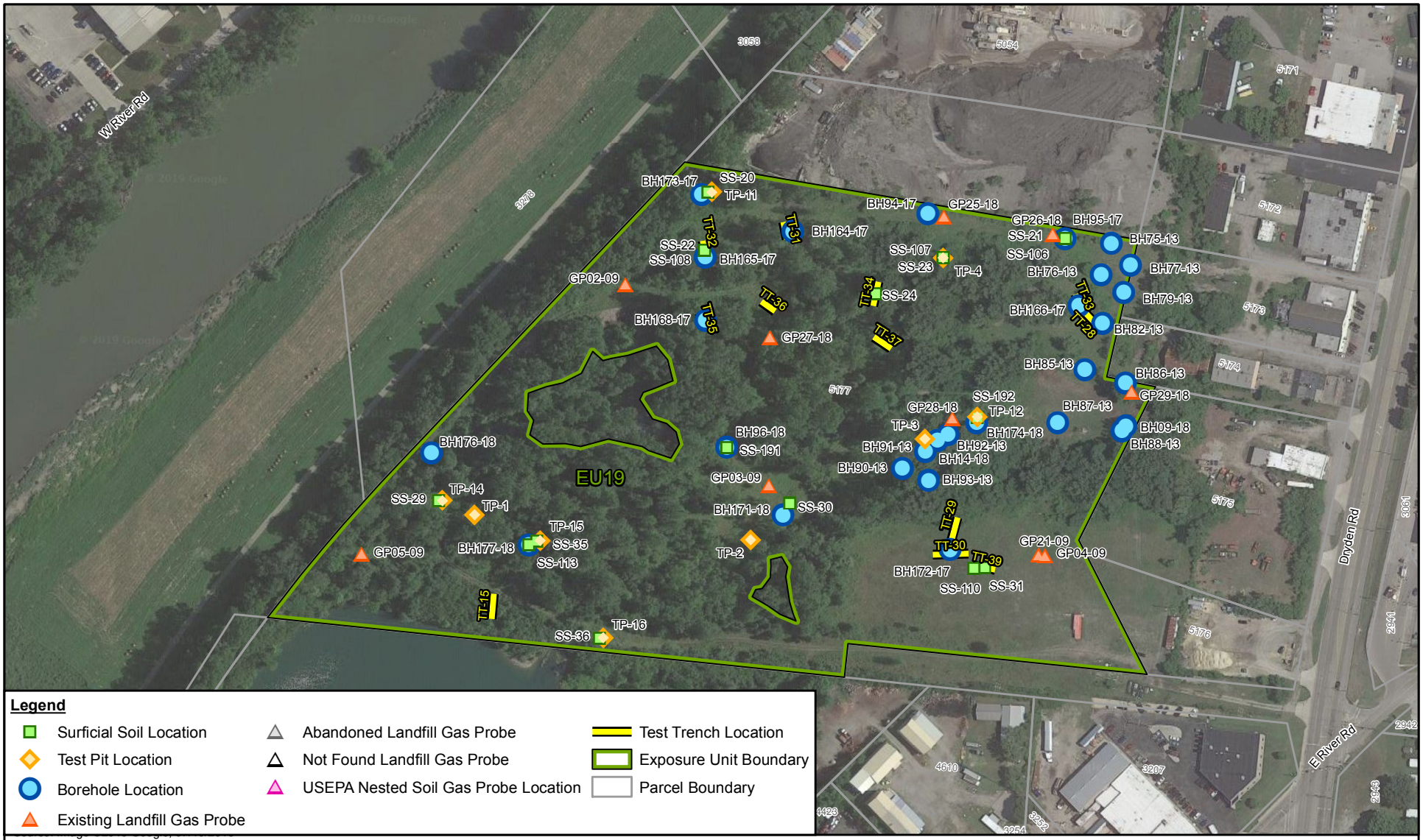
Source: Image ©2019 Google, 07/10/2018
Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet

0 30 60
1:1,200 Feet

Figure 3.15

EU18 AREA MAP
SOUTH DAYTON DUMP & LANDFILL SITE
Moraine, Ohio

038443-320(033)GIS-OT001 Jun 28/2019



Legend

- Surficial Soil Location
- Test Pit Location
- Borehole Location
- Existing Landfill Gas Probe
- Abandoned Landfill Gas Probe
- Not Found Landfill Gas Probe
- USEPA Nested Soil Gas Probe Location
- Test Trench Location
- Exposure Unit Boundary
- Parcel Boundary

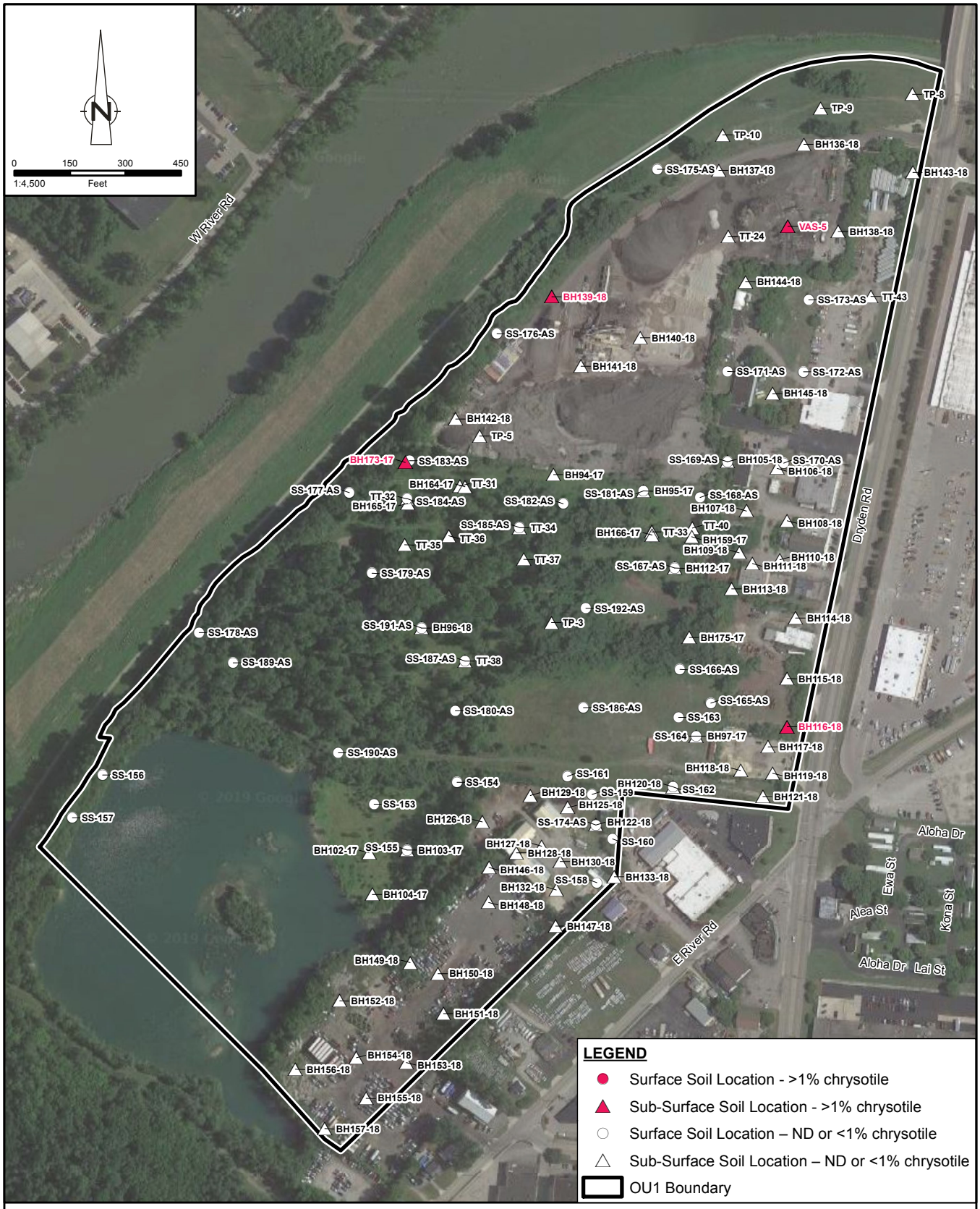
Coordinate System: NAD 1983 StatePlane Ohio South FIPS 3402 Feet

0 75 150
1:3,000 Feet

Figure 3.16

EU19 AREA MAP
SOUTH DAYTON DUMP & LANDFILL SITE
Moraine, Ohio

038443-320(033)GIS-OT005 June 28, 2019



Source: Image ©2019 Google, 07/10/2018
Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet

Figure 3.17

ASBESTOS SAMPLE LOCATIONS
SOUTH DAYTON DUMP & LANDFILL SITE
Moraine, Ohio

038443-320(033)GIS-OT006 Jun 28/2019

Source: Image ©2019 Google, 07/10/2018
Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet

Figure 3.18

DIOXINS & FURANS SAMPLE LOCATIONS
SOUTH DAYTON DUMP & LANDFILL SITE
Moraine, Ohio

038443-320(033)GIS-OT004 Jun 28/2019

Source: Image ©2019 Google, 07/10/2018
Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet

Figure 3.19

FRACTIONATED LEAD SAMPLE LOCATIONS
SOUTH DAYTON DUMP & LANDFILL SITE
Moraine, Ohio

038443-320(033)GIS-OT003 Jun 28/2019

Source: Image ©2019 Google, 07/10/2018
Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet

Figure 3.20

HERBICIDE SAMPLE LOCATIONS
SOUTH DAYTON DUMP & LANDFILL SITE
Moraine, Ohio

038443-320(033)GIS-OT002 Jun 28/2019

Source: Topographic Map of Moraine Landfill prepared by Abrams,
Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet

figure 5.1

EXISTING AND PROPOSED FLOODPLAIN SOIL SAMPLE LOCATIONS - ADJACENT TO OU1
SOUTH DAYTON DUMP & LANDFILL SITE
Moraine, Ohio

038443-320(033)GIS-OT013 June 28, 2019

Table 2.1

List of Test Pit, Test Trench and Supplemental Borings
South Dayton Dump and Landfill
Moraine, Ohio

Location	Exposure Unit	Material Encountered	Supplemental Boring	Borehole Depth (feet BGS)
TP-8	EU17	Soil from 0 to 15 feet BGS	BH161-18	32
TP-9	EU17	A mixture of trace glass, ½-inch metal banding and foundry type sand from 0 to 4 feet; soil from 4 to 15 feet BGS	BH04-18	32
TP-10	EU17	A mixture of brick, wood block, glass, trace scrap metal and foundry type sand from 0 to 9.5 feet BGS; soil from 9.5 to 15 feet BGS	BH163-18	28
TP-11	EU19	A mixture of glass, wiring, brick debris, cinder block, soda bottles, and plastic sheeting from 0 to 15 feet BGS; foundry type sand from 0.0 to 6.0 feet BGS	BH173-17	25
TP-12	EU19	A mixture of concrete and brick debris, metal wiring, scrap metal, cinder block, wood timbers, plastic sheeting and foundry type sand from 0 to 15 feet BGS; a crushed partial drum at 6 feet BGS	BH174-18	40
TP-13	EU11	A mixture of concrete and brick debris, metal wiring, aluminum siding, glass fragment and foundry type sand from 0 to 15 feet BGS; a partial drum top was at 9.0 feet BGS	BH175-17	30
TP-14	EU19	A mixture of timbers, concrete block, brick, ¼-inch metal wire, metal shaving and foundry type sand from 0 to 15 feet BGS	BH176-18	24
TP-15	EU19	A mixture of concrete, brick and wood debris, rubber hose, and 2-inch metal pipe from 0 to 6.0 feet BGS; foundry type sand from 6.0 to 12 feet BGS; water at 12.0 feet BGS	BH177-18	18 (refusal)
TP-16	EU19	12-inch sections of concrete from 0 to 6.2 feet BGS; native material at 6.2 ft BGS	n/a	n/a
TP-17	EU9	A mixture of concrete and asphalt debris, wood timbers, metal wiring and slag from 0 to 12.0 feet BGS; crushed scrap metal at 7.5 feet BGS and 10-inch thick concrete slabs at 9.0 feet BGS; native material was encountered at 12.0 feet BGS	n/a	n/a
TT-24	EU16	A mixture of concrete, brick and wood debris, glass bottles, metal strap and metal banding from 4.1 to 11.0 feet BGS; glass, wood, trace scrap metal and foundry type sand from 11.0 to 15 feet BGS; solidified paint sludge at 13.0 feet BGS, a partial drum and two 55-gallon steel buckets at 14.0 feet BGS	n/a	n/a
TT-31	EU19	A mixture of partial drum rings, partial drum remnants, steel mattress springs, metal wiring, aluminum scrap, glass debris, heavy duty rubber wheels, cinder block and brick debris from 0 to 8.0 feet BGS; concrete and brick debris, glass, scrap metal and foundry type sand from 8.0 to 15.0 ft BGS	BH164-17	25
TT-32	EU19	A mixture of scrap metal, glass debris, tire iron, plastic bottle, concrete and brick debris from 0 to 15.0 feet BGS; a partial drum ring at 2.0 feet BGS and ½-inch steel cables at 6.7 and 12.5 ft BGS	BH165-17	35

Table 2.1

List of Test Pit, Test Trench and Supplemental Borings
South Dayton Dump and Landfill
Moraine, Ohio

Location	Exposure Unit	Material Encountered	Supplemental Boring	Borehole Depth (feet BGS)
TT-33	EU19	A mixture of concrete and wood debris, glass bottles, mortar, thin metal wiring, scrap metal and foundry type sand from 0 to 15.0 feet BGS; a 2-foot wide, ¼-inch thick, 2-foot long piece of metal at 11.2 ft BGS	BH166-17	45
TT-34	EU19	A mixture of partial drum remnants, rubber tires, aluminum siding, glass and ceramic debris, metal shavings, rubber washers, ½-inch metal banding, tarp material, glass soda bottles, cinder block, brick debris, and partial ceramic toilet from 0 to 10.2 feet BGS; an insulator at 5.0 feet BGS; water at 10.0 feet BGS	n/a	n/a
TT-35	EU19	A mixture of brick debris, scrap metal, slag, rubber washer, ¼-inch diameter metal wiring and foundry type sand from 0 to 14.5 feet BGS; glass bottles, a drum ring lid, and slag debris from 12.5 to 13.0 feet BGS; water at 14.0 feet BGS.	BH168-17	25
TT-36	EU19	A mixture of metal wire springs, circular metal disc, wood timbers, scrap metal bandings, scrap metal, concrete and brick debris, plastic sheeting, aluminum and foundry type sand from 0 to 13.5 feet BGS; partial drum remnants at 2.5 and 4.0 feet BGS; water at 13.5 feet BGS	n/a	n/a
TT-37	EU19	A mixture of brake pad components and trace ½-inch metal banding from 0 to 6.5 feet BGS; a mixture of trash, plastic sheeting, concrete and brick debris, light bulb, and wood debris from 9.0 to 12.0 feet BGS; foundry type sand from 0.0 to 9.0 feet BGS	n/a	n/a
TT-38	EU19	A mixture of concrete and brick debris, plastic bucket, metal cutting wheel, cinder block wood timbers, and metal wiring from 0 to 4.5 feet BGS; a 3-foot thick, 6-foot wide, 8-foot long concrete slab at 1.0 foot BGS; water at 4.0 feet BGS	BH171-18	30
TT-39	EU19	A mixture of concrete and brick debris, metal wiring, wood timbers and metal from 0 to 15.0 feet BGS	BH172-17	43.5
TT-40	EU13	A mixture of concrete, brick, wood and slag debris, rubber hose, metal wires, mortar and foundry type sand from 0 to 10.0 feet BGS; a 3-foot section of intertwined slag and scrap metal at 6.0 feet BGS. The excavation was terminated at 10.0 feet BGS due to wall collapse	BH159-17	21
TT-41	EU1	A mixture of concrete debris, 10-foot long, 3-inch wide metal strapping, 3/8-inch diameter metal rod and foundry type from 0 to 3.0 feet BGS; water at 3.0 feet BGS.	BH158-17	15
TT-43	EU15	A mixture of concrete, brick, plastic wrapping, glass debris, and wood block from 0 to 15.0 feet BGS; ¼-inch metal cable at 12.0 feet BGS; foundry type sand at 8.5 to 9.0 ft BGS.	BH160-18	28

Table 2.2

List of OU1 Soil Borings
South Dayton Dump and Landfill
Moraine, Ohio

Location	Exposure Unit	Depth of Fill Material (feet BGS)	Borehole Depth (feet BGS)
BH94-17	on-site (EU19)	28	35
BH95-17	on-site (EU19)	28	35
BH96-18	on-site (EU19)	24.2	30
BH97-17	on-site (EU10)	15	15
BH98-18	on-site (EU02)	5.5	5.5
BH99-18	on-site (EU02)	9.5	9.5
BH100-18	on-site (EU02)	7.5	7.5
BH101-17	on-site (EU01)	15	15
BH102-17	on-site (EU01)	11.5	15
BH103-17	on-site (EU01)	15	15
BH104-17	on-site (EU01)	9.8	15
BH105-18	on-site (EU14)	10.5	20
BH106-18	on-site (EU14)	n/a	25
BH107-18	on-site (EU13)	14	20
BH108-18	on-site (EU13)	9	15
BH109-18	on-site (EU13)	9.5	15
BH110-18	on-site (EU13)	8.3	20
BH111-18	on-site (EU12)	9.5	15
BH112-17	on-site (EU12)	24.6	30
BH113-18	on-site (EU12)	11	15
BH114-18	on-site (EU11)	5	15
BH115-18	on-site (EU11)	9.8	15
BH116-18	on-site (EU11)	13	20
BH117-18	on-site (EU10)	12	20
BH118-18	on-site (EU10)	12	20
BH119-18	on-site (EU10)	11	20
BH120-18	on-site (EU09)	10	15
BH121-18	on-site (EU09)	10	20
BH122-18	on-site (EU08)	8.3	20
BH125-18	on-site (EU07)	9	20
BH126-18	on-site (EU07)	22.5	22.5
BH127-18	on-site (EU07)	9	20
BH128-18	on-site (EU07)	44	44
BH129-18	on-site (EU07)	20	22.5
BH130-18	on-site (EU06)	9.7	20
BH132-18	on-site (EU06)	8.6	20
BH133-18	on-site (EU05)	9	20
BH136-18	on-site (EU16)	22	30
BH137-18	on-site (EU16)	30	35
BH138-18	on-site (EU16)	16.4	25
BH139-18	on-site (EU16)	26	30

Table 2.2

List of OU1 Soil Borings
South Dayton Dump and Landfill
Moraine, Ohio

Location	Exposure Unit	Depth of Fill Material (feet BGS)	Borehole Depth (feet BGS)
BH140-18	on-site (EU16)	20.5	25
BH141-18	on-site (EU16)	23.2	30
BH142-18	on-site (EU16)	24	30
BH143-18	on-site (EU15)	30	35
BH144-18	on-site (EU15)	16.5	20
BH145-18	on-site (EU15)	11	15
BH146-18	on-site (EU04)	40	44
BH147-18	on-site (EU04)	7.9	28
BH148-18	on-site (EU04)	32	32
BH149-18	on-site (EU04)	3.8	12.5
BH150-18	on-site (EU04)	27	32
BH151-18	on-site (EU04)	15	20
BH152-18	on-site (EU03)	16	20
BH153-18	on-site (EU03)	16	20
BH154-18	on-site (EU03)	17.5	20
BH155-18	on-site (EU03)	18	20
BH156-18	on-site (EU03)	7	32
BH157-18	on-site (EU03)	14.1	16
BH158-17	on-site (EU01)	13.3	15
BH159-17	on-site (EU13)	21	21
BH160-18	on-site (EU15)	16	28
BH161-18	on-site (EU17)	18.8	32
BH04-18 (BH162-18)	on-site (EU17)	18	32
BH163-18	on-site (EU17)	20	28
BH164-17	on-site (EU19)	20	25
BH165-17	on-site (EU19)	28.6	35
BH166-17	on-site (EU19)	38	45
BH168-17	on-site (EU19)	17.8	25
BH171-18	on-site (EU19)	3.7	30
BH172-17	on-site (EU19)	42.6	43.5
BH173-17	on-site (EU19)	19.5	25
BH174-18	on-site (EU19)	32	40
BH175-17	on-site (EU11)	22.6	30
BH176-18	on-site (EU19)	20	24
BH177-18	on-site (EU19)	18	18

Table 2.3

New and Replacement Soil Gas Probe List
South Dayton Dump and Landfill Site
Moraine, Ohio

Location Identification	Screened Interval						Bottom of Hole Depth		Notes
	ft bgs			ft AMSL (1)			ft bgs	ft AMSL [1]	
GP01-18	6	to	7	731.67	to	730.67	20	717.67	Replacement for GP01-09
GP07-18	12	to	13	711.86	to	710.86	16	707.86	Replacement for GP07-09
GP08-18	11.67	to	12.67	n/a		n/a	20	n/a	Replacement for GP08-09
GP19-18	11	to	12	723.19	to	722.19	20	714.19	Replacement for GP19-09
GP20-18	11	to	12	720.84	to	719.84	20	711.84	Replacement for GP20-09
GP25-18	15	to	16	718.12	to	717.12	20	713.12	
GP26-18	13.4	to	14.4	718.58	to	717.58	20	711.98	
GP27-18	7	to	8	716.89	to	715.89	20	703.89	
GP28-18	11	to	12	713.44	to	712.44	20	704.44	
GP29-18	9	to	10	721.14	to	720.14	18.5	711.64	
GP30-18	10.5	to	11.5	722.14	to	721.14	20	712.64	
GP31-18	8	to	9	723.77	to	722.77	20	711.77	
GP32-18	10	to	11	721.77	to	720.77	20	711.77	
GP33-18	17.5	to	18.5	719.44	to	718.44	20	716.94	
GP34-18	10	to	11	720.93	to	719.93	24	706.93	
GP35-19	10	to	11	n/a		n/a	20	n/a	

Notes:

(1) - North American Vertical Datum of 1988 (NAVD88), U.S. Survey feet.
n/a - Information not available.
ft BGS - feet below ground surface.
ft AMSL - feet above mean sea level.

Table 4.1

Summary of Detected Values
Soil/Fill Samples - EU1
South Dayton Dump And Landfill Site
Moraine, Ohio

Parameters	Units	Samples	Detects	Min Detect	Max Detect	Average (Detects)
Volatiles						
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	13	4	2.5	4.7	3.5
Acetone	µg/kg	13	1	13	13	13
Semi-Volatiles						
2-Methylnaphthalene	µg/kg	14	12	11	85	39
Acenaphthene	µg/kg	14	11	12	200	81
Acenaphthylene	µg/kg	14	14	9.8	320	82
Acetophenone	µg/kg	14	1	10	10	10
Anthracene	µg/kg	14	14	25	570	194
Benzaldehyde	µg/kg	14	1	16	16	16
Benzo(a)anthracene	µg/kg	14	14	210	3400	926
Benzo(a)pyrene	µg/kg	14	14	190	3100	879
Benzo(b)fluoranthene	µg/kg	14	14	270	3900	1220
Benzo(g,h,i)perylene	µg/kg	14	14	71	2400	655
Benzo(k)fluoranthene	µg/kg	14	14	110	1500	501
Biphenyl (1,1-Biphenyl)	µg/kg	14	4	8.1	13	11
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	14	6	78	330	172
Caprolactam	µg/kg	14	1	320	320	320
Carbazole	µg/kg	14	11	26	330	107
Chrysene	µg/kg	14	14	210	3200	961
Dibenz(a,h)anthracene	µg/kg	14	11	29	570	164
Dibenzofuran	µg/kg	14	10	14	100	49
Fluoranthene	µg/kg	14	14	270	4800	1803
Fluorene	µg/kg	14	12	13	250	80
Indeno(1,2,3-cd)pyrene	µg/kg	14	14	66	1900	514
Naphthalene	µg/kg	14	12	12	190	50
Phenanthrene	µg/kg	14	14	67	2000	749
Phenol	µg/kg	14	1	13	13	13
Pyrene	µg/kg	14	14	270	5200	1694
Metals						
Aluminum	mg/kg	14	14	3000	11000	6296
Antimony	mg/kg	14	12	0.14	2.4	0.48
Arsenic	mg/kg	14	14	3.6	29	9.8
Barium	mg/kg	14	14	42	170	77
Beryllium	mg/kg	14	14	0.22	2.5	0.64
Cadmium	mg/kg	14	14	0.21	2.2	0.50
Calcium	mg/kg	14	14	45000	190000	93443
Chromium	mg/kg	15	15	6.8	17	11
Chromium III (trivalent)	mg/kg	11	11	6.8	16	11
Chromium VI (hexavalent)	mg/kg	11	4	0.31	0.8	0.5
Cobalt	mg/kg	14	14	2.7	9.6	5.6
Copper	mg/kg	14	14	12.6	44	26
Iron	mg/kg	14	14	7000	22000	12864
Lead	mg/kg	14	14	18.4	61	35
Lead - coarse fraction	mg/kg	2	2	24	62	43
Lead - fine fraction	mg/kg	2	2	48	100	74
Lead - total (calculated by fine/coarse fraction)	mg/kg	2	2	26	70	48
Magnesium	mg/kg	14	14	18000	47000	29086
Manganese	mg/kg	14	14	240	624	361
Mercury	mg/kg	14	14	0.027	0.27	0.10
Nickel	mg/kg	14	14	7.7	25	14
Potassium	mg/kg	14	14	450	1200	811
Selenium	mg/kg	14	12	0.6	3.7	1.2
Silver	mg/kg	14	12	0.024	0.089	0.052
Sodium	mg/kg	14	9	72	290	131
Thallium	mg/kg	14	13	0.12	0.82	0.27
Vanadium	mg/kg	14	14	12	37	20
Zinc	mg/kg	14	14	42	98.7	65

Table 4.1

Summary of Detected Values
Soil/Fill Samples - EU1
South Dayton Dump And Landfill Site
Moraine, Ohio

Parameters	Units	Samples	Detects	Min Detect	Max Detect	Average (Detects)
PCBs						
Aroclor-1254 (PCB-1254)	µg/kg	14	5	33	16000	3275
Aroclor-1260 (PCB-1260)	µg/kg	14	1	24	24	24
Pesticides						
4,4'-DDE	µg/kg	14	1	12	12	12
4,4'-DDT	µg/kg	14	1	1.2	1.2	1.2
alpha-Chlordane	µg/kg	14	4	3.1	32	16
Endosulfan I	µg/kg	14	1	2.1	2.1	2.1
Endrin	µg/kg	14	1	130	130	130
Endrin aldehyde	µg/kg	14	1	2.1	2.1	2.1
gamma-Chlordane	µg/kg	14	5	1.9	27	15
Heptachlor epoxide	µg/kg	14	2	3.8	130	67
General Chemistry						
Cyanide (total)	mg/kg	14	1	0.13	0.13	0.13
Total solids	%	2	2	83.3	85.4	84.4

Notes:

J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 4.2

Summary of Detected Values
Soil/Fill Samples - EU2
South Dayton Dump and Landfill Site
Moraine, Ohio

Parameters	Units	Samples	Detects	Min Detect	Max Detect	Average (Detects)
Volatiles						
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	8	1	7.2	7.2	7.2
Acetone	µg/kg	8	1	23	23	23
Toluene	µg/kg	8	1	1.1	1.1	1.1
Semi-Volatiles						
2-Methylnaphthalene	µg/kg	8	1	23	23	23
Anthracene	µg/kg	8	1	4.2	4.2	4.2
Benzo(a)anthracene	µg/kg	8	4	9.6	24	15
Benzo(a)pyrene	µg/kg	8	6	12	31	21
Benzo(b)fluoranthene	µg/kg	8	6	8.8	46	27
Benzo(g,h,i)perylene	µg/kg	8	4	8.7	33	17
Benzo(k)fluoranthene	µg/kg	8	2	11	17	14
Chrysene	µg/kg	8	4	17	28	21
Fluoranthene	µg/kg	8	8	9.8	47	25
Indeno(1,2,3-cd)pyrene	µg/kg	8	2	8.8	29	19
Naphthalene	µg/kg	8	1	17	17	17
Phenanthrene	µg/kg	8	5	4.4	29	15
Phenol	µg/kg	8	1	14	14	14
Pyrene	µg/kg	8	8	9.1	38	23
Metals						
Aluminum	mg/kg	8	8	8500	17000	12738
Antimony	mg/kg	8	8	0.18	1.5	0.6
Arsenic	mg/kg	8	8	7.2	14	9.9
Barium	mg/kg	8	8	72	180	115
Beryllium	mg/kg	8	8	0.42	0.71	0.55
Cadmium	mg/kg	8	8	0.19	0.48	0.28
Calcium	mg/kg	8	8	3600	56000	25700
Chromium	mg/kg	8	8	13	24	19
Chromium III (trivalent)	mg/kg	8	8	13	24	19
Chromium VI (hexavalent)	mg/kg	8	2	0.29	0.29	0.29
Cobalt	mg/kg	8	8	5.6	8.8	7.6
Copper	mg/kg	8	8	12	31	20
Iron	mg/kg	8	8	15000	26000	21125
Lead	mg/kg	8	8	14	46	23
Lead - coarse fraction	mg/kg	1	1	17	17	17
Lead - fine fraction	mg/kg	1	1	25	25	25
Lead - total (calculated by fine/coarse fraction)	mg/kg	1	1	18	18	18
Magnesium	mg/kg	8	8	3300	33000	14263
Manganese	mg/kg	8	8	450	730	600
Mercury	mg/kg	8	8	0.025	0.067	0.042
Nickel	mg/kg	8	8	13	23	18
Potassium	mg/kg	8	8	850	1900	1259
Selenium	mg/kg	8	8	0.16	1.6	0.91
Silver	mg/kg	8	8	0.038	0.12	0.07
Sodium	mg/kg	8	4	64	110	82
Thallium	mg/kg	8	8	0.071	0.26	0.17
Vanadium	mg/kg	8	8	25	43	33
Zinc	mg/kg	8	8	44	120	78
Pesticides						
4,4'-DDT	µg/kg	8	2	1.5	3.5	2.5

Notes:

J - Estimated concentration.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 4.3

Summary of Detected Values
Soil/Fill Samples - EU3
South Dayton Dump and Landfill Site
Moraine, Ohio

Parameters	Units	Samples	Detects	Min Detect	Max Detect	Average (Detects)
Volatiles						
1,4-Dichlorobenzene	µg/kg	15	1	23	23	23
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	15	10	4.3	13	7.8
Acetone	µg/kg	15	7	22	63	41
Benzene	µg/kg	15	1	0.33	0.33	0.33
cis-1,2-Dichloroethene	µg/kg	15	1	0.47	0.47	0.47
Cyclohexane	µg/kg	16	3	0.43	210	90
Ethylbenzene	µg/kg	15	2	0.38	380	190
Isopropyl benzene	µg/kg	15	1	140	140	140
Methyl cyclohexane	µg/kg	16	5	0.55	410	102
Methylene chloride	µg/kg	16	1	500	500	500
Toluene	µg/kg	15	3	0.92	430	144
Xylenes (total)	µg/kg	15	3	0.68	2800	934
Semi-Volatiles						
2-Methylnaphthalene	µg/kg	15	12	5.9	6300	628
Acenaphthene	µg/kg	15	8	5	54000	6890
Acenaphthylene	µg/kg	15	7	4.9	1100	175
Anthracene	µg/kg	15	13	4.8	120000	9565
Benzo(a)anthracene	µg/kg	15	13	28	260000	20712
Benzo(a)pyrene	µg/kg	15	14	11	270000	19886
Benzo(b)fluoranthene	µg/kg	15	14	15	330000	24444
Benzo(g,h,i)perylene	µg/kg	15	13	24	120000	9593
Benzo(k)fluoranthene	µg/kg	15	12	17	130000	11209
Biphenyl (1,1-Biphenyl)	µg/kg	15	1	260	260	260
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	15	3	73	620	304
Carbazole	µg/kg	15	4	72	92000	23508
Chrysene	µg/kg	15	13	35	250000	19972
Dibenz(a,h)anthracene	µg/kg	15	8	9.3	39000	5006
Dibenzofuran	µg/kg	15	4	72	30000	7964
Di-n-butylphthalate (DBP)	µg/kg	15	1	25	25	25
Fluoranthene	µg/kg	15	14	19	590000	43714
Fluorene	µg/kg	15	9	6.3	62000	7215
Indeno(1,2,3-cd)pyrene	µg/kg	15	13	24	120000	9558
Naphthalene	µg/kg	15	9	5.3	18000	2122
Phenanthrene	µg/kg	15	14	7.9	480000	35565
Pyrene	µg/kg	15	14	17	450000	33376
Metals						
Aluminum	mg/kg	15	15	1500	9800	6186
Antimony	mg/kg	15	12	0.13	5	1
Arsenic	mg/kg	15	15	1.8	17.7	7.3
Barium	mg/kg	15	15	17.8	389	100
Beryllium	mg/kg	15	15	0.099	2.9	0.6
Cadmium	mg/kg	15	14	0.091	15	1.3
Calcium	mg/kg	15	15	5650	220000	89777
Chromium	mg/kg	15	15	4.5	280	31
Chromium III (trivalent)	mg/kg	13	13	4.5	280	34
Chromium VI (hexavalent)	mg/kg	13	4	0.31	1	1
Cobalt	mg/kg	15	15	1.2	7.9	4.5
Copper	mg/kg	15	15	6.7	96	21
Iron	mg/kg	15	15	6040	54000	15535
Lead	mg/kg	15	15	6.4	1000	124
Lead - coarse fraction	mg/kg	1	1	100	100	100
Lead - fine fraction	mg/kg	1	1	210	210	210
Lead - total (calculated by fine/coarse fraction)	mg/kg	1	1	110	110	110
Magnesium	mg/kg	15	15	1290	65000	33659
Manganese	mg/kg	15	15	84.9	6000	763
Mercury	mg/kg	15	11	0.022	0.61	0.15
Nickel	mg/kg	15	15	7.4	28	12
Potassium	mg/kg	15	15	365	1200	704
Selenium	mg/kg	15	14	0.24	3.7	0.78
Silver	mg/kg	15	12	0.021	1.9	0.23
Sodium	mg/kg	15	15	61	620	172
Thallium	mg/kg	15	13	0.083	0.54	0.18
Vanadium	mg/kg	15	15	5.2	170	27
Zinc	mg/kg	15	15	10.3	1600	164

Table 4.3

Summary of Detected Values
Soil/Fill Samples - EU3
South Dayton Dump and Landfill Site
Moraine, Ohio

Parameters	Units	Samples	Detects	Min Detect	Max Detect	Average (Detects)
PCBs						
Aroclor-1242 (PCB-1242)	µg/kg	15	1	980	980	980
Aroclor-1254 (PCB-1254)	µg/kg	15	2	70	1300	685
Pesticides						
4,4'-DDD	µg/kg	15	1	2.8	2.8	2.8
4,4'-DDE	µg/kg	15	2	2.1	28	15
4,4'-DDT	µg/kg	15	1	1.4	1.4	1.4
alpha-Chlordane	µg/kg	15	2	4	36	20
Dieldrin	µg/kg	15	1	2	2	2
Endosulfan II	µg/kg	15	1	4.3	4.3	4.3
gamma-BHC (lindane)	µg/kg	15	1	3.8	3.8	3.8
gamma-Chlordane	µg/kg	15	2	3.6	30	17
Heptachlor epoxide	µg/kg	15	2	2	8	5
General Chemistry						
Cyanide (total)	mg/kg	15	3	0.24	0.52	0.34
Total solids	%	2	2	73.2	94.1	83.7

Notes:

J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 4.4

Summary of Detected Values
Soil/Fill Samples - EU4
South Dayton Dump and Landfill Site
Moraine, Ohio

Parameters	Units	Samples	Detects	Min Detect	Max Detect	Average (Detects)
Volatiles						
1,1,1-Trichloroethane	µg/kg	15	2	1	94	48
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	14	3	5.8	9.9	7.2
Acetone	µg/kg	14	1	81	81	81
Benzene	µg/kg	14	2	0.46	0.9	0.7
Cyclohexane	µg/kg	14	2	0.43	1.2	0.82
Ethylbenzene	µg/kg	12	1	0.78	0.78	0.78
Methyl cyclohexane	µg/kg	14	3	0.55	2	1
Tetrachloroethene	µg/kg	12	2	0.34	72	36
Toluene	µg/kg	12	3	1	1.8	1.3
Xylenes (total)	µg/kg	12	1	1.4	1.4	1.4
Semi-Volatiles						
2-Methylnaphthalene	µg/kg	15	12	6.4	240	50
Acenaphthene	µg/kg	15	5	4.4	250	92
Acenaphthylene	µg/kg	15	5	8.8	45	26
Acetophenone	µg/kg	15	1	25	25	25
Anthracene	µg/kg	15	10	7.3	480	108
Benzaldehyde	µg/kg	15	3	39	120	72
Benzo(a)anthracene	µg/kg	15	14	11	1200	251
Benzo(a)pyrene	µg/kg	15	14	8.7	1100	237
Benzo(b)fluoranthene	µg/kg	15	14	12	1300	313
Benzo(g,h,i)perylene	µg/kg	15	13	7.9	790	167
Benzo(k)fluoranthene	µg/kg	15	10	7.1	600	174
Biphenyl (1,1-Biphenyl)	µg/kg	15	1	25	25	25
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	15	5	78	4700	1038
Carbazole	µg/kg	15	4	22	400	144
Chrysene	µg/kg	15	14	12	1400	280
Dibenz(a,h)anthracene	µg/kg	15	8	6.2	180	67
Dibenzofuran	µg/kg	15	4	16	180	91
Di-n-butylphthalate (DBP)	µg/kg	15	3	26	250	101
Fluoranthene	µg/kg	15	14	19	3700	640
Fluorene	µg/kg	15	7	3.8	250	69
Indeno(1,2,3-cd)pyrene	µg/kg	15	11	5.5	610	162
Naphthalene	µg/kg	15	12	10	150	44
Phenanthrene	µg/kg	15	15	5.8	3400	445
Phenol	µg/kg	15	2	13	27	20
Pyrene	µg/kg	15	14	20	2900	533
Metals						
Aluminum	mg/kg	15	15	2400	15000	7167
Antimony	mg/kg	15	12	0.16	12	1.4
Arsenic	mg/kg	15	15	0.74	56	17
Barium	mg/kg	15	15	9.6	420	133
Beryllium	mg/kg	15	15	0.19	5.2	1.6
Cadmium	mg/kg	15	14	0.11	0.92	0.28
Calcium	mg/kg	15	15	5400	410000	79367
Chromium	mg/kg	15	15	2.9	21	12
Chromium III (trivalent)	mg/kg	13	13	2.1	21	12
Chromium VI (hexavalent)	mg/kg	13	9	0.51	1.3	0.84
Cobalt	mg/kg	15	15	0.77	27	8.2
Copper	mg/kg	15	15	3.5	92	29
Iron	mg/kg	15	15	1200	19000	12193
Lead	mg/kg	15	15	2.1	130	29
Lead - coarse fraction	mg/kg	1	1	33	33	33
Lead - fine fraction	mg/kg	1	1	50	50	50
Lead - total (calculated by fine/coarse fraction)	mg/kg	1	1	36	36	36
Magnesium	mg/kg	15	15	1100	51000	17027
Manganese	mg/kg	15	15	37	620	279
Mercury	mg/kg	15	13	0.026	0.45	0.15
Nickel	mg/kg	15	15	7.5	51	20
Potassium	mg/kg	15	15	180	2200	910
Selenium	mg/kg	15	14	0.15	10	2.3
Silver	mg/kg	15	11	0.032	1.9	0.25
Sodium	mg/kg	15	12	59	400	155
Thallium	mg/kg	15	13	0.083	1.5	0.53
Vanadium	mg/kg	15	15	9	70	28
Zinc	mg/kg	15	15	6.5	280	64

Table 4.4

Summary of Detected Values
Soil/Fill Samples - EU4
South Dayton Dump and Landfill Site
Moraine, Ohio

Parameters	Units	Samples	Detects	Min Detect	Max Detect	Average (Detects)
PCBs						
Aroclor-1248 (PCB-1248)	µg/kg	15	1	59	59	59
Aroclor-1254 (PCB-1254)	µg/kg	15	5	27	210	83
Pesticides						
4,4'-DDD	µg/kg	15	3	1.8	2.8	2.2
4,4'-DDE	µg/kg	15	1	8.3	8.3	8.3
4,4'-DDT	µg/kg	15	4	2.3	4.6	3.3
alpha-Chlordane	µg/kg	15	1	2.5	2.5	2.5
Endrin aldehyde	µg/kg	15	1	1.9	1.9	1.9
Endrin ketone	µg/kg	15	2	1.4	21	11
gamma-Chlordane	µg/kg	15	2	2.7	2.8	2.8
General Chemistry						
Cyanide (total)	mg/kg	15	6	0.22	1.3	0.6
Fraction organic carbon (FOC)	%	1	1	0.5	0.5	0.5
Total solids	%	2	2	80.1	91	86

Notes:

J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 4.5

Summary of Detected Values
Soil/Fill Samples - EU5, 6, 7, 8
South Dayton Dump and Landfill Site
Moraine, Ohio

Parameters	Units	Samples	Detects	Min Detect	Max Detect	Average (Detects)
Volatiles						
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	23	8	3.2	38	13
Acetone	µg/kg	23	12	19	250	82
Carbon disulfide	µg/kg	23	1	2.8	2.8	2.8
cis-1,2-Dichloroethene	µg/kg	23	1	5	5	5
Cyclohexane	µg/kg	23	1	4.8	4.8	4.8
Ethylbenzene	µg/kg	23	1	3.6	3.6	3.6
Methyl cyclohexane	µg/kg	23	1	6.7	6.7	6.7
Tetrachloroethene	µg/kg	23	4	1.6	8.4	4.4
Toluene	µg/kg	23	3	1.4	8.9	3.9
Xylenes (total)	µg/kg	23	1	16	16	16
Semi-Volatiles						
2-Methylnaphthalene	µg/kg	23	21	12	1200	184
Acenaphthene	µg/kg	23	12	6.8	170	73
Acenaphthylene	µg/kg	23	17	4.5	95	40
Acetophenone	µg/kg	23	5	12	95	43
Anthracene	µg/kg	23	19	4.5	580	124
Benzaldehyde	µg/kg	23	3	32	94	56
Benzo(a)anthracene	µg/kg	23	22	8	1900	355
Benzo(a)pyrene	µg/kg	23	23	5.1	1600	372
Benzo(b)fluoranthene	µg/kg	23	23	8.5	2100	523
Benzo(g,h,i)perylene	µg/kg	23	20	6.3	640	219
Benzo(k)fluoranthene	µg/kg	23	16	24	840	270
Biphenyl (1,1-Biphenyl)	µg/kg	23	5	22	130	65
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	23	6	60	320	140
Carbazole	µg/kg	23	10	37	320	111
Chrysene	µg/kg	23	21	8.3	1900	396
Dibenz(a,h)anthracene	µg/kg	23	10	22	200	90
Dibenzofuran	µg/kg	23	13	21	290	80
Di-n-butylphthalate (DBP)	µg/kg	23	3	30	53	41
Fluoranthene	µg/kg	23	23	9.8	3800	782
Fluorene	µg/kg	23	14	5.1	220	73
Hexachlorobenzene	µg/kg	23	1	36	36	36
Indeno(1,2,3-cd)pyrene	µg/kg	23	20	5.4	650	191
Isophorone	µg/kg	23	1	110	110	110
Naphthalene	µg/kg	23	20	9.5	740	127
Pentachlorophenol	µg/kg	23	1	860	860	860
Phenanthrene	µg/kg	23	23	6.3	2100	493
Pyrene	µg/kg	23	23	10	2900	641
Metals						
Aluminum	mg/kg	23	23	1600	12000	6170
Antimony	mg/kg	23	20	0.16	5.4	0.67
Arsenic	mg/kg	23	23	4.2	59	12
Barium	mg/kg	23	23	41	1000	142
Beryllium	mg/kg	23	23	0.19	4.1	0.88
Cadmium	mg/kg	23	22	0.057	0.74	0.36
Calcium	mg/kg	23	23	1900	320000	73617
Chromium	mg/kg	23	23	4.7	140	25
Chromium III (trivalent)	mg/kg	23	23	3.9	140	24
Chromium VI (hexavalent)	mg/kg	23	9	0.29	7.5	1.5
Cobalt	mg/kg	23	23	2.4	12	5.6
Copper	mg/kg	23	23	9.9	960	78
Iron	mg/kg	23	23	4300	23000	12578
Lead	mg/kg	23	23	1.7	270	53
Lead - coarse fraction	mg/kg	2	2	23	41	32
Lead - fine fraction	mg/kg	3	3	31	310	128
Lead - total (calculated by fine/coarse fraction)	mg/kg	2	2	27	37	32
Magnesium	mg/kg	23	23	340	55000	25390
Manganese	mg/kg	23	23	31	1000	382
Mercury	mg/kg	23	20	0.024	0.5	0.1
Nickel	mg/kg	23	23	8.2	700	65
Potassium	mg/kg	23	23	200	2200	789
Selenium	mg/kg	23	22	0.24	6.3	1.2
Silver	mg/kg	23	21	0.031	0.52	0.11
Sodium	mg/kg	23	23	68	350	160
Thallium	mg/kg	23	22	0.063	2.7	0.36
Vanadium	mg/kg	23	23	10	45	24
Zinc	mg/kg	23	23	4.9	260	92

Table 4.5

Summary of Detected Values
Soil/Fill Samples - EU5, 6, 7, 8
South Dayton Dump and Landfill Site
Moraine, Ohio

Parameters	Units	Samples	Detects	Min Detect	Max Detect	Average (Detects)
PCBs						
Aroclor-1248 (PCB-1248)	µg/kg	23	2	74	400	237
Aroclor-1254 (PCB-1254)	µg/kg	23	4	54	160	95
Aroclor-1260 (PCB-1260)	µg/kg	23	1	74	74	74
Pesticides						
4,4'-DDD	µg/kg	23	2	3.7	14	8.9
4,4'-DDE	µg/kg	23	1	2.5	2.5	2.5
4,4'-DDT	µg/kg	23	4	1.2	3.1	1.9
alpha-Chlordane	µg/kg	23	1	2.3	2.3	2.3
beta-BHC	µg/kg	23	2	1.9	4.5	3.2
Endosulfan II	µg/kg	23	1	3.7	3.7	3.7
Endrin aldehyde	µg/kg	23	1	1.8	1.8	1.8
Endrin ketone	µg/kg	23	1	3.6	3.6	3.6
Heptachlor epoxide	µg/kg	23	1	2.1	2.1	2.1
General Chemistry						
Cyanide (total)	mg/kg	23	12	0.22	0.83	0.39

Notes:

J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 4.6

Summary of Detected Values
Soil/Fill Samples - EU9
South Dayton Dump and Landfill Site
Moraine, Ohio

Parameters	Units	Samples	Detects	Min Detect	Max Detect	Average (Detects)
Volatiles						
1,1-Dichloroethane	µg/kg	12	1	4.3	4.3	4.3
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	12	4	1.4	41	13
Acetone	µg/kg	12	2	22	180	101
Ethylbenzene	µg/kg	12	1	2.4	2.4	2.4
Isopropyl benzene	µg/kg	12	1	1.1	1.1	1.1
Toluene	µg/kg	12	1	2.6	2.6	2.6
Xylenes (total)	µg/kg	12	1	12	12	12
Semi-Volatiles						
2-Methylnaphthalene	µg/kg	12	10	9.7	2900	471
2-Methylphenol	µg/kg	12	1	13	13	13
Acenaphthene	µg/kg	12	7	7.1	5300	810
Acenaphthylene	µg/kg	12	6	4.4	60	27
Acetophenone	µg/kg	12	1	96	96	96
Anthracene	µg/kg	12	11	5.3	12000	1205
Benzaldehyde	µg/kg	12	1	95	95	95
Benzo(a)anthracene	µg/kg	12	11	34	27000	2820
Benzo(a)pyrene	µg/kg	12	11	35	17000	1887
Benzo(b)fluoranthene	µg/kg	12	12	56	25000	2601
Benzo(g,h,i)perylene	µg/kg	12	12	20	8700	972
Benzo(k)fluoranthene	µg/kg	12	11	17	9500	1073
Biphenyl (1,1-Biphenyl)	µg/kg	12	2	6	64	35
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	12	2	57	8600	4329
Carbazole	µg/kg	12	7	23	8400	1292
Chrysene	µg/kg	12	11	40	29000	3019
Dibenz(a,h)anthracene	µg/kg	12	9	8.3	2700	362
Dibenzofuran	µg/kg	12	6	26	2700	533
Fluoranthene	µg/kg	12	12	57	65000	6182
Fluorene	µg/kg	12	7	45	5300	876
Indeno(1,2,3-cd)pyrene	µg/kg	12	11	14	7600	882
Isophorone	µg/kg	12	1	44	44	44
Naphthalene	µg/kg	12	10	11	760	209
Phenanthrene	µg/kg	12	12	41	52000	4835
Pyrene	µg/kg	12	12	51	50000	4923
Metals						
Aluminum	mg/kg	12	12	3100	9300	5698
Antimony	mg/kg	12	11	0.21	3	1
Arsenic	mg/kg	12	12	4.1	16	9.1
Barium	mg/kg	12	12	35.8	280	116
Beryllium	mg/kg	12	11	0.37	2.3	0.85
Cadmium	mg/kg	12	12	0.21	2.6	0.74
Calcium	mg/kg	12	12	46000	140000	91167
Chromium	mg/kg	12	12	6.4	89	22
Chromium III (trivalent)	mg/kg	8	8	11	89	28
Chromium VI (hexavalent)	mg/kg	8	1	0.42	0.42	0.42
Cobalt	mg/kg	12	12	3.5	9.8	5.4
Copper	mg/kg	12	12	12	4700	725
Iron	mg/kg	12	12	6900	59000	16995
Lead	mg/kg	12	12	12.5	680	142
Magnesium	mg/kg	12	12	19000	41000	30967
Manganese	mg/kg	12	12	230	810	409
Mercury	mg/kg	12	11	0.027	0.26	0.10
Nickel	mg/kg	12	12	8.1	47	18
Potassium	mg/kg	12	12	390	1100	729
Selenium	mg/kg	12	10	0.33	1.4	0.73
Silver	mg/kg	12	10	0.04	0.81	0.20
Sodium	mg/kg	12	8	78	240	151
Thallium	mg/kg	12	11	0.1	0.53	0.2
Vanadium	mg/kg	12	12	12.3	60	22
Zinc	mg/kg	12	12	38	2000	339

Table 4.6

Summary of Detected Values
Soil/Fill Samples - EU9
South Dayton Dump and Landfill Site
Moraine, Ohio

Parameters	Units	Samples	Detects	Min Detect	Max Detect	Average (Detects)
PCBs						
Aroclor-1254 (PCB-1254)	µg/kg	12	3	41	170	87
Pesticides						
4,4'-DDD	µg/kg	11	1	20	20	20
4,4'-DDE	µg/kg	11	1	2.7	2.7	2.7
4,4'-DDT	µg/kg	11	2	1.7	4.7	3.2
Endrin aldehyde	µg/kg	11	2	1.6	4.1	2.9
gamma-Chlordane	µg/kg	11	1	1.8	1.8	1.8
Methoxychlor	µg/kg	11	1	1.8	1.8	1.8
Dioxin/Furans						
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	1	1	19	19	19
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	1	1	0.8	0.8	0.8
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	1	1	2.7	2.7	2.7
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	1	1	0.35	0.35	0.35
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	1	1	0.18	0.18	0.18
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	1	1	0.2	0.2	0.2
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	1	1	0.38	0.38	0.38
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	1	1	0.36	0.36	0.36
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	1	1	0.26	0.26	0.26
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	1	1	0.2	0.2	0.2
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	1	1	0.21	0.21	0.21
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	1	1	0.38	0.38	0.38
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	1	1	0.081	0.081	0.081
Total heptachlorodibenzofuran (HpCDF)	pg/g	1	1	1.7	1.7	1.7
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	1	1	5.2	5.2	5.2
Total hexachlorodibenzofuran (HxCDF)	pg/g	1	1	4.4	4.4	4.4
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	1	1	3.7	3.7	3.7
Total pentachlorodibenzofuran (PeCDF)	pg/g	1	1	7.7	7.7	7.7
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	1	1	8.9	8.9	8.9
Total tetrachlorodibenzofuran (TCDF)	pg/g	1	1	8.5	8.5	8.5
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	1	1	2.8	2.8	2.8
General Chemistry						
Cyanide (total)	mg/kg	11	3	0.23	7.1	2.6
Total solids	%	2	2	90.3	95.6	93.0

Notes:

J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 4.7

Summary of Detected Values
Soil/Fill Samples - EU10
South Dayton Dump and Landfill Site
Moraine, Ohio

Parameters	Units	Samples	Detects	Min Detect	Max Detect	Average (Detects)
Volatiles						
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	14	7	3.1	19	9.6
Acetone	µg/kg	14	9	17	100	48
Carbon disulfide	µg/kg	14	2	0.34	0.38	0.36
cis-1,2-Dichloroethene	µg/kg	14	1	0.93	0.93	0.93
Toluene	µg/kg	13	1	1.7	1.7	1.7
Vinyl chloride	µg/kg	14	1	0.28	0.28	0.28
Xylenes (total)	µg/kg	13	1	1.5	1.5	1.5
Semi-Volatiles						
2-Methylnaphthalene	µg/kg	14	14	4.5	770	170
2-Methylphenol	µg/kg	14	1	84	84	84
3&4-Methylphenol	µg/kg	14	1	210	210	210
Acenaphthene	µg/kg	14	7	4.3	54	23
Acenaphthylene	µg/kg	14	10	6.2	140	33
Acetophenone	µg/kg	14	2	64	79	72
Anthracene	µg/kg	14	14	5	270	53
Benzaldehyde	µg/kg	14	2	69	110	90
Benzo(a)anthracene	µg/kg	14	14	24	970	245
Benzo(a)pyrene	µg/kg	14	14	28	840	219
Benzo(b)fluoranthene	µg/kg	14	14	42	1300	362
Benzo(g,h,i)perylene	µg/kg	14	14	33	530	165
Benzo(k)fluoranthene	µg/kg	14	14	15	450	118
Biphenyl (1,1-Biphenyl)	µg/kg	14	6	4.4	110	36
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	14	3	38	110	74
Carbazole	µg/kg	14	5	33	280	90
Chrysene	µg/kg	14	14	30	870	275
Dibenz(a,h)anthracene	µg/kg	14	12	11	150	52
Dibenzofuran	µg/kg	14	9	17	270	77
Diethyl phthalate	µg/kg	14	1	43	43	43
Di-n-butylphthalate (DBP)	µg/kg	14	1	20	20	20
Fluoranthene	µg/kg	14	14	41	2100	408
Fluorene	µg/kg	14	9	4	120	29
Indeno(1,2,3-cd)pyrene	µg/kg	14	14	26	490	134
Naphthalene	µg/kg	14	14	5.6	460	99
Phenanthrene	µg/kg	14	14	28	1300	304
Phenol	µg/kg	14	2	12	180	96
Pyrene	µg/kg	14	14	30	1500	331
Metals						
Aluminum	mg/kg	14	14	2000	12000	6536
Antimony	mg/kg	14	12	0.25	2	1
Arsenic	mg/kg	14	14	4	27	10
Barium	mg/kg	14	14	20	690	123
Beryllium	mg/kg	14	14	0.25	2.8	0.71
Cadmium	mg/kg	14	14	0.12	0.94	0.38
Calcium	mg/kg	14	14	1400	140000	47029
Chromium	mg/kg	14	14	6.2	80	24
Chromium III (trivalent)	mg/kg	14	14	6.2	80	24
Chromium VI (hexavalent)	mg/kg	14	5	0.3	0.88	0.5
Cobalt	mg/kg	14	14	2.6	8.9	5.9
Copper	mg/kg	14	14	8.1	92	43
Iron	mg/kg	14	14	7400	47000	20736
Lead	mg/kg	14	14	4.5	140	49
Lead - coarse fraction	mg/kg	2	2	44	52	48
Lead - fine fraction	mg/kg	2	2	74	99	87
Lead - total (calculated by fine/coarse fraction)	mg/kg	2	2	48	64	56
Magnesium	mg/kg	14	14	610	43000	15536
Manganese	mg/kg	14	14	210	890	403
Mercury	mg/kg	14	12	0.024	0.27	0.09
Nickel	mg/kg	14	14	7.4	41	19
Potassium	mg/kg	14	14	140	1300	797
Selenium	mg/kg	14	14	0.32	2.3	0.86
Silver	mg/kg	14	13	0.036	0.23	0.10
Sodium	mg/kg	14	12	55	640	155
Thallium	mg/kg	14	14	0.089	0.38	0.20
Vanadium	mg/kg	14	14	4.6	36	20
Zinc	mg/kg	14	14	31	270	95

Table 4.7

Summary of Detected Values
Soil/Fill Samples - EU10
South Dayton Dump and Landfill Site
Moraine, Ohio

Parameters	Units	Samples	Detects	Min Detect	Max Detect	Average (Detects)
PCBs						
Aroclor-1254 (PCB-1254)	µg/kg	14	4	40	760	348
Pesticides						
4,4'-DDD	µg/kg	14	1	4.3	4.3	4.3
4,4'-DDE	µg/kg	14	2	5.2	30	18
4,4'-DDT	µg/kg	14	3	2.9	13	7.5
alpha-BHC	µg/kg	14	2	1.9	13	7.5
alpha-Chlordane	µg/kg	14	1	1.7	1.7	1.7
beta-BHC	µg/kg	14	3	2.2	7.3	4.9
Dieldrin	µg/kg	14	2	3.3	37	20
Endrin aldehyde	µg/kg	14	1	2.4	2.4	2.4
gamma-Chlordane	µg/kg	14	2	1.8	1.8	1.8
Heptachlor epoxide	µg/kg	14	1	4.2	4.2	4.2
Methoxychlor	µg/kg	14	1	1.5	1.5	1.5
Dioxin/Furans						
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	2	2	11	11	11
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	2	2	150	160	155
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	2	2	11	13	12
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	2	2	14	14	14
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	2	2	0.45	0.51	0.48
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	2	2	0.82	0.87	0.85
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	2	2	0.22	0.23	0.23
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	2	2	1.2	1.2	1.2
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	2	2	0.91	0.95	0.93
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	2	2	0.6	0.68	0.64
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	2	1	0.32	0.32	0.32
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	2	2	0.44	0.45	0.45
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	2	1	0.41	0.41	0.41
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	2	2	0.82	1.2	1.0
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	2	1	0.18	0.18	0.18
Total heptachlorodibenzofuran (HpCDF)	pg/g	2	2	28	30	29
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	2	2	27	28	28
Total hexachlorodibenzofuran (HxCDF)	pg/g	2	2	25	30	28
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	2	2	6.9	7	7
Total pentachlorodibenzofuran (PeCDF)	pg/g	2	2	40	54	47
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	2	2	18	20	19
Total tetrachlorodibenzofuran (TCDF)	pg/g	2	2	49	64	57
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	2	2	1.9	1.9	1.9
Asbestos						
Chrysotile asbestos	%	1	1	0.25	0.25	0.25
General Chemistry						
Cyanide (total)	mg/kg	14	7	0.077	7.6	1.3

Notes:

< - Less than reported value.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 4.8

Summary of Detected Values
Soil/ Fill Samples - EU11
South Dayton Dump and Landfill Site
Moraine, Ohio

Parameters	Units	Samples	Detects	Min Detect	Max Detect	Average (Detects)
Volatiles						
1,1,1-Trichloroethane	µg/kg	21	1	0.54	0.54	0.54
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	21	4	4.2	12	6.4
Acetone	µg/kg	18	4	25	60	49
Chlorobenzene	µg/kg	21	1	0.57	0.57	0.57
Chloroform (Trichloromethane)	µg/kg	21	1	0.4	0.4	0.4
cis-1,2-Dichloroethene	µg/kg	21	3	0.3	1.6	0.8
Ethylbenzene	µg/kg	21	2	0.3	8.6	4.5
Isopropyl benzene	µg/kg	21	1	1.4	1.4	1.4
Methyl cyclohexane	µg/kg	21	1	0.25	0.25	0.25
Methylene chloride	µg/kg	21	1	0.65	0.65	0.65
Tetrachloroethene	µg/kg	21	2	0.69	1.1	0.90
Toluene	µg/kg	21	5	0.32	75	16
Trichloroethene	µg/kg	21	10	0.45	2400	252
Xylenes (total)	µg/kg	21	3	1	6.4	3
Semi-Volatiles						
2-Methylnaphthalene	µg/kg	20	15	8.4	610	91
Acenaphthene	µg/kg	20	10	5	56	23
Acenaphthylene	µg/kg	20	13	4	120	34
Acetophenone	µg/kg	20	4	16	53	31
Anthracene	µg/kg	20	15	4.3	200	64
Benzaldehyde	µg/kg	20	4	24	55	34
Benzo(a)anthracene	µg/kg	20	19	11	1200	229
Benzo(a)pyrene	µg/kg	20	18	13	1400	248
Benzo(b)fluoranthene	µg/kg	20	19	14	2000	333
Benzo(g,h,i)perylene	µg/kg	20	19	8.5	940	146
Benzo(k)fluoranthene	µg/kg	20	18	7.6	640	129
Biphenyl (1,1-Biphenyl)	µg/kg	20	5	7.4	56	29
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	20	5	23	630	168
Butyl benzylphthalate (BBP)	µg/kg	20	1	41	41	41
Caprolactam	µg/kg	20	1	44	44	44
Carbazole	µg/kg	20	7	25	120	65
Chrysene	µg/kg	20	19	13	1300	262
Dibenz(a,h)anthracene	µg/kg	20	10	10	220	68
Dibenzofuran	µg/kg	20	11	11	150	42
Diethyl phthalate	µg/kg	20	1	21	21	21
Di-n-butylphthalate (DBP)	µg/kg	20	1	27	27	27
Fluoranthene	µg/kg	20	19	16	2000	392
Fluorene	µg/kg	20	12	3.8	85	32
Hexachlorobutadiene	µg/kg	20	1	13	13	13
Indeno(1,2,3-cd)pyrene	µg/kg	20	18	8.8	910	139
Naphthalene	µg/kg	20	15	5.7	400	67
Phenanthrene	µg/kg	20	19	11	900	249
Phenol	µg/kg	20	1	53	53	53
Pyrene	µg/kg	20	19	19	1800	369
Metals						
Aluminum	mg/kg	20	20	1240	14000	5403
Antimony	mg/kg	20	15	0.19	2.8	0.8
Arsenic	mg/kg	20	20	2.7	45	9.7
Barium	mg/kg	20	20	12.7	440	92
Beryllium	mg/kg	20	19	0.051	6.5	0.7
Cadmium	mg/kg	20	18	0.057	19	1.5
Calcium	mg/kg	20	20	580	162000	72019
Chromium	mg/kg	21	21	2.4	33	13
Chromium III (trivalent)	mg/kg	13	13	7.1	32	14
Chromium VI (hexavalent)	mg/kg	13	3	0.32	0.69	0.54
Cobalt	mg/kg	20	20	1.5	22	5.3
Copper	mg/kg	20	20	6	410	67
Iron	mg/kg	20	20	4060	63700	16391
Lead	mg/kg	20	20	2.5	160	49
Lead - coarse fraction	mg/kg	2	2	31	82	57
Lead - fine fraction	mg/kg	2	2	85	150	118
Lead - total (calculated by fine/coarse fraction)	mg/kg	2	2	35	89	62
Magnesium	mg/kg	20	20	550	83000	29119

Table 4.8

Summary of Detected Values
Soil/ Fill Samples - EU11
South Dayton Dump and Landfill Site
Moraine, Ohio

Parameters	Units	Samples	Detects	Min Detect	Max Detect	Average (Detects)
Metals (cont'd)						
Manganese	mg/kg	20	20	46	734	361
Mercury	mg/kg	20	18	0.023	0.85	0.18
Nickel	mg/kg	20	20	4	36	16
Potassium	mg/kg	20	20	170	1600	656
Selenium	mg/kg	20	13	0.17	7.3	1.6
Silver	mg/kg	20	14	0.029	0.44	0.10
Sodium	mg/kg	20	17	78	883	282
Thallium	mg/kg	20	13	0.12	1.4	0.29
Vanadium	mg/kg	20	20	4.6	72	18
Zinc	mg/kg	20	20	16.4	1200	128
PCBs						
Aroclor-1254 (PCB-1254)	µg/kg	20	7	20	910	232
Aroclor-1260 (PCB-1260)	µg/kg	20	2	23	36	30
Pesticides						
4,4'-DDE	µg/kg	20	2	24	43	34
4,4'-DDT	µg/kg	20	1	3.1	3.1	3.1
Endrin aldehyde	µg/kg	20	1	5.4	5.4	5.4
gamma-Chlordane	µg/kg	20	1	29	29	29
Methoxychlor	µg/kg	20	1	2.7	2.7	2.7
Dioxin/Furans						
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	1	1	150	150	150
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	1	1	7.1	7.1	7.1
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	1	1	27	27	27
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	1	1	1.2	1.2	1.2
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	1	1	0.51	0.51	0.51
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	1	1	0.85	0.85	0.85
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	1	1	4.5	4.5	4.5
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	1	1	2.3	2.3	2.3
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	1	1	0.27	0.27	0.27
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	1	1	0.66	0.66	0.66
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	1	1	0.63	0.63	0.63
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	1	1	0.39	0.39	0.39
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	1	1	1.1	1.1	1.1
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	1	1	0.17	0.17	0.17
Total heptachlorodibenzofuran (HpCDF)	pg/g	1	1	18	18	18
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	1	1	51	51	51
Total hexachlorodibenzofuran (HxCDF)	pg/g	1	1	14	14	14
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	1	1	32	32	32
Total pentachlorodibenzofuran (PeCDF)	pg/g	1	1	12	12	12
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	1	1	31	31	31
Total tetrachlorodibenzofuran (TCDF)	pg/g	1	1	19	19	19
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	1	1	2.6	2.6	2.6
Asbestos						
Chrysotile asbestos	%	1	1	2	2	2
General Chemistry						
Cyanide (total)	mg/kg	20	5	0.13	0.51	0.27
Total solids	%	6	6	90.2	92.5	91.7

Notes:

J - Estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 4.9

Summary of Detected Values
Soil/Fill Samples - EU12
South Dayton Dump and Landfill Site
Moraine, Ohio

Parameters	Units	Samples	Detects	Min Detect	Max Detect	Average (Detects)
Volatiles						
1,1-Dichloroethane	µg/kg	19	2	1.3	1.9	1.6
1,3-Dichlorobenzene	µg/kg	16	1	2.4	2.4	2.4
1,4-Dichlorobenzene	µg/kg	17	3	2.6	8.6	5.1
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	19	7	3.9	380	61
Acetone	µg/kg	18	7	24	770	204
Benzene	µg/kg	19	3	0.32	1.6	1.0
Carbon disulfide	µg/kg	18	3	0.58	2.8	1.5
Chlorobenzene	µg/kg	19	2	1.4	2.1	1.8
Chloroform (Trichloromethane)	µg/kg	19	1	0.34	0.34	0.34
cis-1,2-Dichloroethene	µg/kg	19	3	0.79	28	10
Cyclohexane	µg/kg	19	4	0.36	1400	350
Ethylbenzene	µg/kg	19	4	0.37	65	17
Isopropyl benzene	µg/kg	19	2	1.3	150	76
Methyl cyclohexane	µg/kg	19	5	0.42	5900	1251
Methylene chloride	µg/kg	19	4	1.9	980	254
Tetrachloroethene	µg/kg	19	3	4.7	58	23
Toluene	µg/kg	19	8	0.36	630	119
Trichloroethene	µg/kg	19	6	0.47	81	17
Vinyl chloride	µg/kg	19	1	1.7	1.7	1.7
Xylenes (total)	µg/kg	19	5	1.2	2300	563
Semi-Volatiles						
2-Methylnaphthalene	µg/kg	15	13	15	3200	430
3&4-Methylphenol	µg/kg	12	2	91	420	256
Acenaphthene	µg/kg	15	6	11	190	68
Acenaphthylene	µg/kg	15	6	4.3	110	29
Acetophenone	µg/kg	15	3	22	210	96
Anthracene	µg/kg	15	9	9.3	240	76
Benzaldehyde	µg/kg	15	4	35	330	121
Benzo(a)anthracene	µg/kg	15	13	5.3	860	199
Benzo(a)pyrene	µg/kg	15	10	16	770	220
Benzo(b)fluoranthene	µg/kg	15	12	9.4	1100	288
Benzo(g,h,i)perylene	µg/kg	15	11	9.4	510	126
Benzo(k)fluoranthene	µg/kg	15	9	8.5	480	123
Biphenyl (1,1-Biphenyl)	µg/kg	15	5	34	250	117
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	15	7	54	620	226
Carbazole	µg/kg	15	4	32	140	66
Chrysene	µg/kg	15	13	10	870	233
Dibenz(a,h)anthracene	µg/kg	15	7	13	130	50
Dibenzofuran	µg/kg	15	7	26	990	227
Diethyl phthalate	µg/kg	15	1	42	42	42
Di-n-butylphthalate (DBP)	µg/kg	15	3	26	140	72
Fluoranthene	µg/kg	15	13	5.6	1800	319
Fluorene	µg/kg	15	7	14	330	89
Indeno(1,2,3-cd)pyrene	µg/kg	15	10	11	470	104
Naphthalene	µg/kg	15	12	6.1	1500	251
Phenanthrene	µg/kg	15	14	11	2300	387
Phenol	µg/kg	15	1	87	87	87
Pyrene	µg/kg	15	13	7	1400	301
Metals						
Aluminum	mg/kg	15	15	840	10000	4195
Antimony	mg/kg	15	15	0.12	2.1	0.9
Arsenic	mg/kg	15	15	1.7	51.2	16
Barium	mg/kg	15	15	14	761	229
Beryllium	mg/kg	15	14	0.11	1.5	0.7
Cadmium	mg/kg	15	10	0.09	2.1	0.6
Calcium	mg/kg	15	15	740	130000	33648
Chromium	mg/kg	15	15	7	83	19
Chromium III (trivalent)	mg/kg	12	12	7	83	20
Cobalt	mg/kg	15	15	0.76	7.1	4.7
Copper	mg/kg	15	15	11	220	46

Table 4.9

Summary of Detected Values
Soil/Fill Samples - EU12
South Dayton Dump and Landfill Site
Moraine, Ohio

Parameters	Units	Samples	Detects	Min Detect	Max Detect	Average (Detects)
Metals (cont'd)						
Iron	mg/kg	15	15	4400	38000	11031
Lead	mg/kg	15	15	8	180	45
Lead - coarse fraction	mg/kg	1	1	80	80	80
Lead - fine fraction	mg/kg	1	1	200	200	200
Lead - total (calculated by fine/coarse fraction)	mg/kg	1	1	92	92	92
Magnesium	mg/kg	15	15	325	55000	16612
Manganese	mg/kg	15	15	13.5	2600	388
Mercury	mg/kg	15	9	0.018	0.41	0.11
Nickel	mg/kg	15	15	8.2	39	16
Potassium	mg/kg	15	14	86	1300	604
Selenium	mg/kg	15	14	0.14	7.7	2.2
Silver	mg/kg	15	12	0.021	0.21	0.08
Sodium	mg/kg	15	9	85	700	226
Thallium	mg/kg	15	10	0.14	1.1	0.37
Vanadium	mg/kg	15	15	1.6	49	21
Zinc	mg/kg	15	15	12.1	440	76.5
PCBs						
Aroclor-1254 (PCB-1254)	µg/kg	15	2	150	210	180
Pesticides						
4,4'-DDD	µg/kg	15	1	5	5	5
4,4'-DDE	µg/kg	15	3	1.4	27	11
alpha-BHC	µg/kg	15	1	10	10	10
beta-BHC	µg/kg	15	2	8.1	20	14
Endrin ketone	µg/kg	15	1	1.1	1.1	1.1
Methoxychlor	µg/kg	15	2	1.5	5.5	3.5
Dioxin/Furans						
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	1	1	4	4	4
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	1	1	79	79	79
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	1	1	1.7	1.7	1.7
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	1	1	4.8	4.8	4.8
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	1	1	0.61	0.61	0.61
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	1	1	0.37	0.37	0.37
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	1	1	0.69	0.69	0.69
Total heptachlorodibenzofuran (HpCDF)	pg/g	1	1	5.8	5.8	5.8
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	1	1	9.8	9.8	9.8
Total hexachlorodibenzofuran (HxCDF)	pg/g	1	1	1.8	1.8	1.8
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	1	1	4	4	4
Total pentachlorodibenzofuran (PeCDF)	pg/g	1	1	3.5	3.5	3.5
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	1	1	0.94	0.94	0.94
Total tetrachlorodibenzofuran (TCDF)	pg/g	1	1	7.3	7.3	7.3
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	1	1	0.45	0.45	0.45
Asbestos						
Chrysotile asbestos	%	2	2	1	1	1
General Chemistry						
Cyanide (total)	mg/kg	15	5	0.074	1.5	0.7
Total solids	%	3	3	64.4	82.2	70.9

Notes:

< - Less than reported value.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 4.10

Summary of Detected Values
Soil/ Fill Samples - EU13
South Dayton Dump and Landfill Site
Moraine, Ohio

Parameters	Units	Samples	Detects	Min Detect	Max Detect	Average (Detects)
Volatiles						
1,1,1-Trichloroethane	µg/kg	29	2	2.1	54	28
1,1-Dichloroethane	µg/kg	29	2	25	77	51
1,2,4-Trichlorobenzene	µg/kg	27	1	210	210	210
1,2-Dichlorobenzene	µg/kg	27	1	1.7	1.7	1.7
1,3-Dichlorobenzene	µg/kg	27	1	170	170	170
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	30	7	2.4	510	79
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	28	1	0.64	0.64	0.64
Acetone	µg/kg	29	2	1200	4500	2850
Benzene	µg/kg	29	7	0.23	190	33
Carbon disulfide	µg/kg	28	6	0.47	2.4	1.4
Chlorobenzene	µg/kg	29	9	0.37	1000	251
Chloroform (Trichloromethane)	µg/kg	28	2	0.25	0.4	0.3
cis-1,2-Dichloroethene	µg/kg	30	10	1.7	890	229
Cyclohexane	µg/kg	29	5	0.5	1400	298
Ethylbenzene	µg/kg	29	10	0.35	59000	12431
Isopropyl benzene	µg/kg	29	8	0.34	13000	2460
Methyl acetate	µg/kg	28	2	230	650	440
Methyl cyclohexane	µg/kg	30	11	0.27	53000	5934
Methylene chloride	µg/kg	28	6	7.4	4000	675
Tetrachloroethene	µg/kg	28	4	3.1	7200	3408
Toluene	µg/kg	30	14	0.47	1400	208
trans-1,2-Dichloroethene	µg/kg	29	3	10	66	41
Trichloroethene	µg/kg	29	20	0.71	13000	1306
Vinyl chloride	µg/kg	29	2	4.9	50	27
Xylenes (total)	µg/kg	29	14	0.7	140000	16756
Semi-Volatiles						
2,4-Dimethylphenol	µg/kg	15	1	170	170	170
2-Methylnaphthalene	µg/kg	16	15	5	8800	1640
2-Methylphenol	µg/kg	15	1	110	110	110
Acenaphthene	µg/kg	16	6	12	590	334
Acenaphthylene	µg/kg	16	6	4.6	190	62
Acetophenone	µg/kg	16	4	17	340	105
Anthracene	µg/kg	16	7	9.7	1700	300
Benzaldehyde	µg/kg	16	2	24	55	40
Benzo(a)anthracene	µg/kg	16	12	15	5200	714
Benzo(a)pyrene	µg/kg	16	13	15	5200	600
Benzo(b)fluoranthene	µg/kg	16	14	10	8000	1003
Benzo(g,h,i)perylene	µg/kg	16	11	17	3600	531
Benzo(k)fluoranthene	µg/kg	16	11	9.2	3000	412
Biphenyl (1,1-Biphenyl)	µg/kg	16	7	5.4	1600	316
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	16	8	35	10000	1523
Carbazole	µg/kg	16	4	21	1100	331
Chrysene	µg/kg	16	13	12	5700	826
Dibenz(a,h)anthracene	µg/kg	16	6	15	920	240
Dibenzofuran	µg/kg	16	10	18	1100	226
Diethyl phthalate	µg/kg	16	2	19	20	20
Di-n-butylphthalate (DBP)	µg/kg	16	3	37	3600	1316
Fluoranthene	µg/kg	16	15	15	11000	1122
Fluorene	µg/kg	16	9	6.1	670	284
Indeno(1,2,3-cd)pyrene	µg/kg	16	10	12	3100	484
Naphthalene	µg/kg	16	13	13	11000	1543
Phenanthrene	µg/kg	16	15	17	7800	1295
Phenol	µg/kg	15	1	6600	6600	6600
Pyrene	µg/kg	16	15	15	8900	989
Metals						
Aluminum	mg/kg	16	16	1700	14000	6231
Antimony	mg/kg	16	15	0.23	1400	98
Arsenic	mg/kg	16	16	3.6	70	23
Barium	mg/kg	16	16	44	1800	454
Beryllium	mg/kg	16	16	0.15	6	1.7
Cadmium	mg/kg	16	15	0.1	30	3.9
Calcium	mg/kg	16	16	1200	120000	34169
Chromium	mg/kg	17	17	3.5	370	48
Chromium III (trivalent)	mg/kg	15	15	8.5	370	52
Chromium VI (hexavalent)	mg/kg	15	2	0.84	1.4	1.1
Cobalt	mg/kg	16	16	2.2	24	8.6
Copper	mg/kg	16	16	12	3300	586
Iron	mg/kg	16	16	4800	180000	31225

Table 4.10

Summary of Detected Values
Soil/ Fill Samples - EU13
South Dayton Dump and Landfill Site
Moraine, Ohio

Parameters	Units	Samples	Detects	Min Detect	Max Detect	Average (Detects)
Metals (cont'd)						
Lead	mg/kg	16	16	2.9	26000	2124
Lead - coarse fraction	mg/kg	2	2	980	6300	3640
Lead - fine fraction	mg/kg	2	2	1500	5300	3400
Lead - total (calculated by fine/coarse fraction)	mg/kg	2	2	1100	6300	3700
Magnesium	mg/kg	16	16	290	38000	11673
Manganese	mg/kg	16	16	19	2300	498
Mercury	mg/kg	16	15	0.031	3.2	0.39
Nickel	mg/kg	16	16	6	310	55
Potassium	mg/kg	16	14	320	1400	762
Selenium	mg/kg	16	16	0.16	4	2
Silver	mg/kg	16	16	0.018	28	3.2
Sodium	mg/kg	16	14	80	1500	422
Thallium	mg/kg	16	15	0.11	2	1
Vanadium	mg/kg	16	16	5	130	32
Zinc	mg/kg	16	16	14	3400	697
PCBs						
Aroclor-1242 (PCB-1242)	µg/kg	21	2	44	380	212
Aroclor-1254 (PCB-1254)	µg/kg	21	13	49	140000	13095
Aroclor-1260 (PCB-1260)	µg/kg	21	2	54	110	82
Pesticides						
4,4'-DDD	µg/kg	16	3	34	43	38
4,4'-DDE	µg/kg	16	1	280	280	280
4,4'-DDT	µg/kg	16	4	3.5	760	209
Endrin aldehyde	µg/kg	16	1	280	280	280
Endrin ketone	µg/kg	16	1	17	17	17
Heptachlor epoxide	µg/kg	16	1	75	75	75
Methoxychlor	µg/kg	16	1	7.1	7.1	7.1
Dioxin/Furans						
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	1	1	13	13	13
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	1	1	160	160	160
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	1	1	12	12	12
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	1	1	23	23	23
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	1	1	0.85	0.85	0.85
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	1	1	4.2	4.2	4.2
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	1	1	0.43	0.43	0.43
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	1	1	1.7	1.7	1.7
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	1	1	3	3	3
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	1	1	2.2	2.2	2.2
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	1	1	1.1	1.1	1.1
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	1	1	0.52	0.52	0.52
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	1	1	1.5	1.5	1.5
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	1	1	2.5	2.5	2.5
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	1	1	3.8	3.8	3.8
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	1	1	0.21	0.21	0.21
Total heptachlorodibenzofuran (HpCDF)	pg/g	1	1	27	27	27
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	1	1	46	46	46
Total hexachlorodibenzofuran (HxCDF)	pg/g	1	1	28	28	28
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	1	1	22	22	22
Total pentachlorodibenzofuran (PeCDF)	pg/g	1	1	33	33	33
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	1	1	110	110	110
Total tetrachlorodibenzofuran (TCDF)	pg/g	1	1	37	37	37
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	1	1	3.4	3.4	3.4
Asbestos						
Chrysotile asbestos	%	1	1	0.25	0.25	0.25
General Chemistry						
Cyanide (total)	mg/kg	16	9	0.051	4.1	1.4

Notes:

< - Less than reported value.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 4.11

Summary of Detected Values
Soil/ Fill Samples - EU14
South Dayton Dump and Landfill Site
Moraine, Ohio

Parameters	Units	Samples	Detects	Min Detect	Max Detect	Average (Detects)
Volatiles						
1,1-Dichloroethane	µg/kg	25	9	1.1	240	53
1,1-Dichloroethene	µg/kg	25	2	0.89	4.6	2.7
1,2-Dichlorobenzene	µg/kg	23	1	1.1	1.1	1.1
1,2-Dichloroethane	µg/kg	25	1	4.3	4.3	4.3
1,4-Dichlorobenzene	µg/kg	23	2	1.7	100	51
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	26	9	1.9	540	104
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	25	3	1.5	1000	621
Acetone	µg/kg	25	3	14	510	195
Benzene	µg/kg	25	9	0.22	310	70
Carbon disulfide	µg/kg	25	3	0.83	110	38
Chlorobenzene	µg/kg	25	7	0.39	4000	1260
Chloroethane	µg/kg	25	1	4.3	4.3	4.3
cis-1,2-Dichloroethene	µg/kg	25	15	0.39	890	164
Cyclohexane	µg/kg	25	3	0.38	160	54
Ethylbenzene	µg/kg	25	9	0.35	66000	10200
Isopropyl benzene	µg/kg	25	4	110	2800	1410
Methyl acetate	µg/kg	25	3	150	1300	547
Methyl cyclohexane	µg/kg	25	12	0.29	1100	242
Methyl tert butyl ether (MTBE)	µg/kg	25	1	0.62	0.62	0.62
Methylene chloride	µg/kg	25	4	4.4	260	70
Tetrachloroethene	µg/kg	26	6	0.34	67	13
Toluene	µg/kg	25	17	0.39	5300	680
trans-1,2-Dichloroethene	µg/kg	25	3	2.2	24	15
Trichloroethene	µg/kg	26	20	1.4	6400	525
Vinyl chloride	µg/kg	25	7	1.6	410	130
Xylenes (total)	µg/kg	25	11	0.71	140000	17682
Semi-Volatiles						
2-Methylnaphthalene	µg/kg	15	10	52	5400	754
3&4-Methylphenol	µg/kg	9	1	210	210	210
Acenaphthene	µg/kg	15	6	14	72	35
Acenaphthylene	µg/kg	15	7	14	310	73
Acetophenone	µg/kg	15	2	38	48	43
Anthracene	µg/kg	15	7	36	250	129
Benzaldehyde	µg/kg	15	1	140	140	140
Benzo(a)anthracene	µg/kg	15	9	59	1700	507
Benzo(a)pyrene	µg/kg	15	10	39	2000	496
Benzo(b)fluoranthene	µg/kg	15	10	61	3000	734
Benzo(g,h,i)perylene	µg/kg	15	10	46	1900	467
Benzo(k)fluoranthene	µg/kg	15	7	88	1200	393
Biphenyl (1,1-Biphenyl)	µg/kg	15	3	14	97	47
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	15	8	74	3000	793
Butyl benzylphthalate (BBP)	µg/kg	15	2	200	250	225
Carbazole	µg/kg	15	4	60	120	82
Chrysene	µg/kg	15	10	94	2000	540
Dibenz(a,h)anthracene	µg/kg	15	5	37	510	214
Dibenzofuran	µg/kg	15	6	32	120	73
Di-n-butylphthalate (DBP)	µg/kg	15	3	45	2600	905
Fluoranthene	µg/kg	15	11	110	2000	782
Fluorene	µg/kg	15	6	17	67	42
Indeno(1,2,3-cd)pyrene	µg/kg	15	9	18	1700	438
Naphthalene	µg/kg	15	10	28	3900	608
Phenanthrene	µg/kg	15	12	45	1100	410
Phenol	µg/kg	15	3	37	87	58
Pyrene	µg/kg	15	11	110	2000	698
Metals						
Aluminum	mg/kg	15	15	2100	9200	6139
Antimony	mg/kg	15	14	1.2	13	4.8
Arsenic	mg/kg	15	15	1.5	35	16
Barium	mg/kg	15	15	10.1	3100	736
Beryllium	mg/kg	15	14	0.19	3.3	1.6
Cadmium	mg/kg	15	15	0.15	13	4.4
Calcium	mg/kg	15	15	1670	140000	61405
Chromium	mg/kg	15	15	5.2	200	58
Chromium III (trivalent)	mg/kg	9	9	5.1	200	73
Chromium VI (hexavalent)	mg/kg	9	5	0.55	1.2	0.86
Cobalt	mg/kg	15	15	2.3	17	9.0
Copper	mg/kg	15	15	7.2	2400	620
Iron	mg/kg	15	15	5820	71000	31675

Table 4.11

Summary of Detected Values
Soil/ Fill Samples - EU14
South Dayton Dump and Landfill Site
Moraine, Ohio

Parameters	Units	Samples	Detects	Min Detect	Max Detect	Average (Detects)
Metals (cont'd)						
Lead	mg/kg	15	15	4.6	4200	869
Lead - coarse fraction	mg/kg	2	2	3600	47000	25300
Lead - fine fraction	mg/kg	2	2	3600	28000	15800
Lead - total (calculated by fine/coarse fraction)	mg/kg	2	2	3600	43000	23300
Magnesium	mg/kg	15	15	652	63000	21393
Manganese	mg/kg	15	15	88.1	880	346
Mercury	mg/kg	15	13	0.12	0.62	0.30
Nickel	mg/kg	15	15	6.8	110	42
Potassium	mg/kg	15	15	313	1300	727
Selenium	mg/kg	15	13	0.32	7.2	3.0
Silver	mg/kg	15	10	0.072	6.5	1.6
Sodium	mg/kg	15	14	106	596	280
Thallium	mg/kg	15	12	0.11	0.98	0.37
Vanadium	mg/kg	15	15	8.4	46	26
Zinc	mg/kg	15	15	23.2	3000	971
PCBs						
Aroclor-1242 (PCB-1242)	µg/kg	19	2	370	490	430
Aroclor-1248 (PCB-1248)	µg/kg	19	1	430	430	430
Aroclor-1254 (PCB-1254)	µg/kg	19	8	54	3700	799
Aroclor-1260 (PCB-1260)	µg/kg	19	4	250	14000	3783
Pesticides						
4,4'-DDD	µg/kg	15	1	9.5	9.5	9.5
4,4'-DDE	µg/kg	15	6	9.4	220	69
4,4'-DDT	µg/kg	15	4	21	74	52
Dieldrin	µg/kg	15	2	12	270	141
Endrin aldehyde	µg/kg	15	1	28	28	28
Endrin ketone	µg/kg	15	3	19	96	48
gamma-Chlordane	µg/kg	15	3	2.6	180	70
Heptachlor epoxide	µg/kg	15	1	27	27	27
Dioxin/Furans						
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	1	1	25	25	25
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	1	1	380	380	380
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	1	1	48	48	48
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	1	1	52	52	52
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	1	1	3	3	3
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	1	1	11	11	11
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	1	1	1.7	1.7	1.7
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	1	1	7.9	7.9	7.9
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	1	1	6.9	6.9	6.9
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	1	1	5.6	5.6	5.6
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	1	1	2.8	2.8	2.8
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	1	1	2.1	2.1	2.1
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	1	1	6	6	6
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	1	1	5.1	5.1	5.1
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	1	1	17	17	17
Total heptachlorodibenzofuran (HpCDF)	pg/g	1	1	82	82	82
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	1	1	98	98	98
Total hexachlorodibenzofuran (HxCDF)	pg/g	1	1	110	110	110
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	1	1	59	59	59
Total pentachlorodibenzofuran (PeCDF)	pg/g	1	1	180	180	180
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	1	1	24	24	24
Total tetrachlorodibenzofuran (TCDF)	pg/g	1	1	270	270	270
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	1	1	24	24	24
General Chemistry						
Cyanide (total)	mg/kg	15	8	0.27	13	2.6
Fraction organic carbon (FOC)	%	2	2	0.3	0.3	0.3
Total solids	%	6	6	52.4	96.4	78.6

Notes:

J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 4.12

Summary of Detected Values
Soil/Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Parameters	Units	Samples	Detects	Min Detect	Max Detect	Average (Detects)
Volatiles						
1,1-Dichloroethane	µg/kg	39	1	5.3	5.3	5.3
1,2,4-Trichlorobenzene	µg/kg	36	1	38	38	38
1,2-Dichlorobenzene	µg/kg	36	2	57	190	124
1,3-Dichlorobenzene	µg/kg	37	1	2.1	2.1	2.1
1,4-Dichlorobenzene	µg/kg	36	1	45	45	45
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	40	12	2.9	85	22
Acetone	µg/kg	40	4	5.4	120	51
Benzene	µg/kg	39	4	0.62	21	9.2
Carbon disulfide	µg/kg	38	4	0.78	1.8	1.4
Chlorobenzene	µg/kg	38	1	51	51	51
cis-1,2-Dichloroethene	µg/kg	38	10	0.36	1000	257
Cyclohexane	µg/kg	38	2	46	56	51
Ethylbenzene	µg/kg	39	3	0.28	260000	86681
Isopropyl benzene	µg/kg	39	3	85	57000	19628
Methyl cyclohexane	µg/kg	38	8	0.39	2800	439
Methylene chloride	µg/kg	40	6	15	560	241
Tetrachloroethene	µg/kg	39	7	1	99	29
Toluene	µg/kg	39	16	0.35	95000	5964
trans-1,2-Dichloroethene	µg/kg	38	1	56	56	56
Trichloroethene	µg/kg	39	22	0.37	5200	1065
Vinyl chloride	µg/kg	38	2	1.9	54	28
Xylenes (total)	µg/kg	39	8	1.2	2000000	250212
Semi-Volatiles						
2,4-Dimethylphenol	µg/kg	20	2	490	1400	945
2-Methylnaphthalene	µg/kg	20	16	6.7	730	237
2-Methylphenol	µg/kg	20	2	88	330	209
3&4-Methylphenol	µg/kg	17	2	3900	23000	13450
3,3'-Dichlorobenzidine	µg/kg	20	1	890	890	890
Acenaphthene	µg/kg	20	10	4.9	1400	283
Acenaphthylene	µg/kg	20	9	5.7	97	45
Acetophenone	µg/kg	20	1	110	110	110
Anthracene	µg/kg	20	13	4.4	3600	562
Benzaldehyde	µg/kg	20	1	92	92	92
Benzo(a)anthracene	µg/kg	20	15	11	9600	1410
Benzo(a)pyrene	µg/kg	20	14	15	8500	1369
Benzo(b)fluoranthene	µg/kg	20	15	21	12000	1815
Benzo(g,h,i)perylene	µg/kg	20	14	14	6100	1051
Benzo(k)fluoranthene	µg/kg	20	15	8.2	4200	652
Biphenyl (1,1-Biphenyl)	µg/kg	20	5	34	160	74
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	20	7	28	17000	2590
Carbazole	µg/kg	20	7	25	1500	438
Chrysene	µg/kg	20	15	16	9300	1425
Dibenz(a,h)anthracene	µg/kg	20	8	18	1600	428
Dibenzofuran	µg/kg	20	10	14	780	217
Diethyl phthalate	µg/kg	20	4	350	1100	565
Di-n-butylphthalate (DBP)	µg/kg	20	6	27	2400	553
Fluoranthene	µg/kg	20	16	33	21000	2916
Fluorene	µg/kg	20	12	4.8	1300	233
Indeno(1,2,3-cd)pyrene	µg/kg	20	14	11	5300	894
Naphthalene	µg/kg	20	16	9.2	1700	333
Phenanthrene	µg/kg	20	16	35	13000	1839
Phenol	µg/kg	20	3	220	1400	627
Pyrene	µg/kg	20	16	26	18000	2436
Metals						
Aluminum	mg/kg	19	19	2800	21700	8366
Antimony	mg/kg	19	18	0.23	70.1	8.67
Arsenic	mg/kg	20	20	4.7	54	18
Barium	mg/kg	19	19	19.9	3500	722

Table 4.12

Summary of Detected Values
Soil/Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Parameters	Units	Samples	Detects	Min Detect	Max Detect	Average (Detects)
Metals (cont'd)						
Beryllium	mg/kg	19	18	0.28	5.8	1.5
Cadmium	mg/kg	19	19	0.2	16	2.7
Calcium	mg/kg	19	19	1500	130000	51958
Chromium	mg/kg	19	19	7.8	1080	92
Chromium III (trivalent)	mg/kg	14	14	9	210	38
Chromium VI (hexavalent)	mg/kg	14	7	0.38	0.99	0.77
Cobalt	mg/kg	19	19	3.2	317	27
Copper	mg/kg	19	19	9.6	2900	462
Iron	mg/kg	19	19	8800	110000	29072
Lead	mg/kg	20	20	4.3	17700	1404
Lead - coarse fraction	mg/kg	3	3	18	2000	1206
Lead - fine fraction	mg/kg	3	3	26	2700	1575
Lead - total (calculated by fine/coarse fraction)	mg/kg	3	3	19	2200	1306
Magnesium	mg/kg	19	19	380	54000	19955
Manganese	mg/kg	19	19	34	1100	453
Mercury	mg/kg	19	16	0.021	6.1	0.70
Nickel	mg/kg	19	19	9.1	150	42
Potassium	mg/kg	19	19	400	1680	884
Selenium	mg/kg	19	18	0.37	21	3.4
Silver	mg/kg	19	18	0.036	8.2	1.4
Sodium	mg/kg	19	17	64	2970	490
Thallium	mg/kg	19	18	0.075	1.4	0.38
Vanadium	mg/kg	19	19	10	73	29
Zinc	mg/kg	19	19	31	19600	1864
PCBs						
Aroclor-1232 (PCB-1232)	µg/kg	22	1	1100	1100	1100
Aroclor-1242 (PCB-1242)	µg/kg	22	2	230	1100	665
Aroclor-1248 (PCB-1248)	µg/kg	22	3	1300	8600	3933
Aroclor-1254 (PCB-1254)	µg/kg	22	6	40	1800	508
Aroclor-1260 (PCB-1260)	µg/kg	22	5	44	1100	459
Pesticides						
4,4'-DDD	µg/kg	20	1	2	2	2
4,4'-DDE	µg/kg	20	3	1.6	20	8.0
4,4'-DDT	µg/kg	20	3	5.1	38	16
Dieldrin	µg/kg	20	1	14	14	14
Endrin	µg/kg	20	1	17	17	17
Endrin aldehyde	µg/kg	20	4	2.1	54	29
Heptachlor epoxide	µg/kg	20	1	9.6	9.6	9.6
Methoxychlor	µg/kg	20	1	20	20	20
Petroleum Products						
Total Petroleum Hydrocarbons - Extractable (DRO)	µg/kg	1	1	1400000	1400000	1400000
Total Petroleum Hydrocarbons - Purgeable (GRO)	µg/kg	1	1	410000	410000	410000
Dioxin/Furans						
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	5	4	1.3	330	84
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	5	5	4.9	1400	315
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	5	5	1	410	84
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	5	4	5.2	300	82
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	5	1	17	17	17
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	5	2	1.5	130	66
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	5	2	0.43	9.3	4.9
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	5	3	0.51	59	21
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	5	2	2.7	35	19
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	5	2	3.3	30	17
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	5	2	0.71	24	12
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	5	2	1	10	6
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	5	2	1.5	47	24

Table 4.12

Summary of Detected Values
Soil/Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Parameters	Units	Samples	Detects	Min Detect	Max Detect	Average (Detects)
Dioxin/Furans (cont'd)						
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	5	2	1.8	55	28
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	5	1	28	28	28
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	5	1	5.7	5.7	5.7
Total heptachlorodibenzofuran (HpCDF)	pg/g	5	5	1.4	880	179
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	5	4	10	600	163
Total hexachlorodibenzofuran (HxCDF)	pg/g	5	5	1.3	830	178
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	5	4	1.6	360	97
Total pentachlorodibenzofuran (PeCDF)	pg/g	5	5	2.4	1300	286
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	5	2	5	2500	1253
Total tetrachlorodibenzofuran (TCDF)	pg/g	5	5	3.5	1900	423
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	5	3	0.79	160	54
Asbestos						
Chrysotile asbestos	%	1	1	0.25	0.25	0.25
General Chemistry						
Cyanide (total)	mg/kg	19	5	0.4	41	10
Fraction organic carbon (FOC)	%	3	3	0.2	2.9	1.1
Total solids	%	4	4	67.6	94.9	87.5

Notes:

< - Less than reported value.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 4.13

Summary of Detected Values
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Parameters	Units	Samples	Detects	Min Detect	Max Detect	Average (Detects)
Volatiles						
1,1,2-Trichloroethane	µg/kg	45	1	8.3	8.3	8.3
1,1-Dichloroethane	µg/kg	45	5	0.46	280	84
1,1-Dichloroethene	µg/kg	45	3	3.5	49	22
1,2,4-Trichlorobenzene	µg/kg	43	1	24	24	24
1,2-Dichlorobenzene	µg/kg	43	2	42	47	45
1,2-Dichloroethane	µg/kg	45	2	49	1200	625
1,2-Dichloropropane	µg/kg	45	1	1800	1800	1800
1,3-Dichlorobenzene	µg/kg	43	1	44	44	44
1,4-Dichlorobenzene	µg/kg	43	5	17	89	41
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	45	17	1.3	170	29
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	45	5	0.73	900	287
Acetone	µg/kg	45	7	6.4	28000	4223
Benzene	µg/kg	45	25	0.2	11000	574
Carbon disulfide	µg/kg	45	10	0.38	97	11
Chlorobenzene	µg/kg	45	9	14	100000	20534
Chloroethane	µg/kg	45	1	91	91	91
cis-1,2-Dichloroethene	µg/kg	45	25	0.39	98000	6195
Cyclohexane	µg/kg	45	10	1.4	750	191
Ethylbenzene	µg/kg	45	24	1.4	210000	17258
Isopropyl benzene	µg/kg	45	20	0.41	15000	1881
Methyl acetate	µg/kg	45	11	58	690	234
Methyl cyclohexane	µg/kg	45	29	0.44	14000	1304
Methylene chloride	µg/kg	45	5	0.84	190	45
Tetrachloroethene	µg/kg	45	7	0.56	40000	6305
Toluene	µg/kg	45	37	0.28	87000	3738
trans-1,2-Dichloroethene	µg/kg	45	12	0.53	300	119
Trichloroethene	µg/kg	45	18	0.51	28000	4137
Vinyl chloride	µg/kg	45	14	0.58	1100	202
Xylenes (total)	µg/kg	45	26	1.1	590000	41161
Semi-Volatiles						
2-Methylnaphthalene	µg/kg	23	17	17	4800	694
2-Methylphenol	µg/kg	23	1	25	25	25
3&4-Methylphenol	µg/kg	12	3	35	1400	511
Acenaphthene	µg/kg	23	9	33	2600	648
Acenaphthylene	µg/kg	23	2	8.7	27	18
Acetophenone	µg/kg	23	1	130	130	130
Anthracene	µg/kg	23	9	33	2900	723
Benzaldehyde	µg/kg	23	2	36	150	93
Benzo(a)anthracene	µg/kg	23	15	11	6400	889
Benzo(a)pyrene	µg/kg	23	13	14	4500	822
Benzo(b)fluoranthene	µg/kg	23	17	9	6200	993
Benzo(g,h,i)perylene	µg/kg	23	12	8.7	2300	475
Benzo(k)fluoranthene	µg/kg	23	13	10	2400	468
Biphenyl (1,1-Biphenyl)	µg/kg	23	12	15	740	216
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	23	3	270	2000	927
Carbazole	µg/kg	23	1	250	250	250
Chrysene	µg/kg	23	17	11	5700	894
Dibenz(a,h)anthracene	µg/kg	23	2	53	540	297
Dibenzofuran	µg/kg	23	8	20	860	323
Diethyl phthalate	µg/kg	23	2	36	690	363
Dimethyl phthalate	µg/kg	23	1	680	680	680
Di-n-butylphthalate (DBP)	µg/kg	23	5	63	6000	1462
Fluoranthene	µg/kg	23	20	21	21000	2386
Fluorene	µg/kg	23	12	12	2000	470
Hexachlorobenzene	µg/kg	23	1	350	350	350
Indeno(1,2,3-cd)pyrene	µg/kg	23	11	7.3	2300	480
Naphthalene	µg/kg	23	18	14	9800	1189
N-Nitrosodiphenylamine	µg/kg	23	2	53	100	77
Phenanthrene	µg/kg	23	21	25	6800	1469
Phenol	µg/kg	23	5	380	980	734
Pyrene	µg/kg	23	21	15	13000	1638

Table 4.13

Summary of Detected Values
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Parameters	Units	Samples	Detects	Min Detect	Max Detect	Average (Detects)
Metals						
Aluminum	mg/kg	23	23	2140	20700	6756
Antimony	mg/kg	23	21	0.41	191	14
Arsenic	mg/kg	23	23	2.9	120	21
Barium	mg/kg	23	23	23.7	7810	1212
Beryllium	mg/kg	23	21	0.23	6.9	1.3
Cadmium	mg/kg	23	22	0.28	64	11
Calcium	mg/kg	23	23	2600	146000	51380
Chromium	mg/kg	23	23	5.2	320	86
Chromium III (trivalent)	mg/kg	10	10	24	320	125
Chromium VI (hexavalent)	mg/kg	10	3	1	1.7	1.3
Cobalt	mg/kg	23	23	2.5	37	12
Copper	mg/kg	23	23	13.4	7340	1297
Iron	mg/kg	23	23	5700	210000	47968
Lead	mg/kg	23	23	9.4	16000	1733
Magnesium	mg/kg	23	23	722	97000	22391
Manganese	mg/kg	23	23	37	1500	456
Mercury	mg/kg	23	20	0.03	3.9	0.72
Nickel	mg/kg	23	23	6.5	860	136
Potassium	mg/kg	23	23	262	2360	849
Selenium	mg/kg	23	16	0.52	38	4.7
Silver	mg/kg	23	19	0.1	5	2
Sodium	mg/kg	23	22	110	1510	536
Thallium	mg/kg	23	15	0.086	2.4	0.40
Vanadium	mg/kg	23	23	8.2	79	25
Zinc	mg/kg	23	23	26.9	19000	1947
PCBs						
Aroclor-1242 (PCB-1242)	µg/kg	25	9	53	29000	6291
Aroclor-1248 (PCB-1248)	µg/kg	25	2	59	160	110
Aroclor-1254 (PCB-1254)	µg/kg	25	16	23	10000	1837
Aroclor-1260 (PCB-1260)	µg/kg	25	2	58	63	61
Pesticides						
4,4'-DDE	µg/kg	22	2	28	93	61
4,4'-DDT	µg/kg	22	3	6.8	110	59
delta-BHC	µg/kg	22	1	130	130	130
Dieldrin	µg/kg	22	2	38	68	53
Dioxin/Furans						
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	12	12	7.4	730	158
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	12	12	44	6300	1295
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	12	12	6	870	209
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	12	12	8.9	1400	396
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	12	12	0.33	68	11
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	12	12	3.5	340	80
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	12	11	0.3	48	15
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	12	12	3.8	110	33
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	12	12	1.1	810	119
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	12	1	0.88	0.88	0.88
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	12	12	1	510	107
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	12	12	0.84	66	22
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	12	10	0.83	430	86
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	12	11	1.8	140	40
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	12	12	1.8	110	40
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	12	12	3.7	200	48
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	12	10	0.5	180	30
Total heptachlorodibenzofuran (HpCDF)	pg/g	12	12	12	1700	411
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	12	12	16	3800	871
Total hexachlorodibenzofuran (HxCDF)	pg/g	12	12	75	1400	475
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	12	12	11	8700	1249
Total pentachlorodibenzofuran (PeCDF)	pg/g	12	12	140	1900	708
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	12	12	9.9	12000	2822
Total tetrachlorodibenzofuran (TCDF)	pg/g	12	12	180	3300	1244
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	12	12	10	7900	917

Table 4.13

Summary of Detected Values
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Parameters	Units	Samples	Detects	Min Detect	Max Detect	Average (Detects)
Asbestos						
Chrysotile asbestos	%	3	3	1	60	24
General Chemistry						
Cellulose	%	1	1	20	20	20
Cyanide (total)	mg/kg	22	18	0.12	11	2.6
Fraction organic carbon (FOC)	%	2	2	2.7	11.2	7.0
Total solids	%	11	11	66.6	96.7	81

Notes:

< - Less than reported value.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 4.14

Summary of Detected Values
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Parameters	Units	Samples	Detects	Min Detect	Max Detect	Average (Detects)
Volatiles						
1,1,1-Trichloroethane	µg/kg	43	1	2.7	2.7	2.7
1,4-Dichlorobenzene	µg/kg	40	1	1.2	1.2	1.2
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	43	4	3	60	29
Acetone	µg/kg	43	1	45	45	45
Benzene	µg/kg	43	2	0.45	1	0.7
Carbon disulfide	µg/kg	43	2	17	22	20
Chloroform (Trichloromethane)	µg/kg	43	1	0.66	0.66	0.66
cis-1,2-Dichloroethene	µg/kg	42	1	0.62	0.62	0.62
Cyclohexane	µg/kg	42	1	0.46	0.46	0.46
Ethylbenzene	µg/kg	42	3	0.71	18	11
Isopropyl benzene	µg/kg	41	2	51	73	62
Methyl acetate	µg/kg	42	3	1.6	210	127
Methyl cyclohexane	µg/kg	42	5	0.61	16	3.8
Methylene chloride	µg/kg	43	2	0.96	29	15
Tetrachloroethene	µg/kg	43	12	0.5	2500	223
Toluene	µg/kg	42	9	0.23	24	3.4
Trichloroethene	µg/kg	43	11	0.89	60	13
Xylenes (total)	µg/kg	42	6	0.98	83	15
Semi-Volatiles						
2-Methylnaphthalene	µg/kg	39	22	6.8	210	55
Acenaphthene	µg/kg	39	17	10	1500	224
Acenaphthylene	µg/kg	39	15	7	180	43
Acetophenone	µg/kg	38	5	14	22	16
Anthracene	µg/kg	39	26	4.8	3300	410
Benzaldehyde	µg/kg	38	3	15	30	24
Benzo(a)anthracene	µg/kg	39	34	8	7100	929
Benzo(a)pyrene	µg/kg	39	34	7.4	6000	711
Benzo(b)fluoranthene	µg/kg	39	36	7.1	8700	1033
Benzo(g,h,i)perylene	µg/kg	39	32	11	3600	440
Benzo(k)fluoranthene	µg/kg	39	29	9.3	2900	499
Biphenyl (1,1-Biphenyl)	µg/kg	38	4	6.3	27	15
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	39	14	25	5100	455
Butyl benzylphthalate (BBP)	µg/kg	39	7	75	1100	518
Carbazole	µg/kg	39	11	47	1700	409
Chrysene	µg/kg	39	35	8.1	6200	896
Dibenz(a,h)anthracene	µg/kg	39	17	15	1200	217
Dibenzofuran	µg/kg	39	13	15	890	175
Diethyl phthalate	µg/kg	39	1	150	150	150
Di-n-butylphthalate (DBP)	µg/kg	39	10	20	560	125
Fluoranthene	µg/kg	39	37	8.9	16000	1779
Fluorene	µg/kg	39	19	5.4	1500	196
Indeno(1,2,3-cd)pyrene	µg/kg	39	29	14	3500	464
Naphthalene	µg/kg	39	19	9.5	380	78
Pentachlorophenol	µg/kg	39	1	110	110	110
Phenanthrene	µg/kg	39	33	7.9	13000	1185
Phenol	µg/kg	39	1	19	19	19
Pyrene	µg/kg	39	37	7.9	13000	1427
Metals						
Aluminum	mg/kg	39	39	1200	14800	6477
Antimony	mg/kg	39	35	0.14	669	40
Arsenic	mg/kg	39	39	3.5	57.3	14
Barium	mg/kg	39	39	17.9	4370	491
Beryllium	mg/kg	39	36	0.058	4	1
Cadmium	mg/kg	39	38	0.11	46.1	6.6
Calcium	mg/kg	39	39	7780	217000	62451
Chromium	mg/kg	39	39	3.2	138	29

Table 4.14

Summary of Detected Values
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Parameters	Units	Samples	Detects	Min Detect	Max Detect	Average (Detects)
Metals (cont'd)						
Chromium III (trivalent)	mg/kg	11	11	8.6	99	32
Chromium VI (hexavalent)	mg/kg	11	3	0.31	0.72	0.46
Cobalt	mg/kg	39	39	2	67	11
Copper	mg/kg	39	39	8.1	43400	2004
Iron	mg/kg	39	39	6340	135000	23132
Lead	mg/kg	39	39	5.4	14100	794
Lead - coarse fraction	mg/kg	5	5	20	4500	1119
Lead - fine fraction	mg/kg	5	5	47	2500	775
Lead - total (calculated by fine/coarse fraction)	mg/kg	5	5	22	4100	1051
Magnesium	mg/kg	39	39	1750	84800	23632
Manganese	mg/kg	39	39	80.3	1490	437
Mercury	mg/kg	39	32	0.016	2.2	0.25
Nickel	mg/kg	39	39	5.8	475	58
Potassium	mg/kg	39	39	277	2150	873
Selenium	mg/kg	39	22	0.29	20.1	2.1
Silver	mg/kg	39	26	0.022	5.5	1.1
Sodium	mg/kg	39	28	65	3110	415
Thallium	mg/kg	39	26	0.085	2.4	0.37
Vanadium	mg/kg	39	39	5	51.8	21
Zinc	mg/kg	39	39	22.8	21900	1212
TCLP Metals						
Barium	mg/L	1	1	1.2	1.2	1.2
Cadmium	mg/L	1	1	0.00071	0.00071	0.00071
Selenium	mg/L	1	1	0.0048	0.0048	0.0048
PCBs						
Aroclor-1248 (PCB-1248)	µg/kg	40	1	8100	8100	8100
Aroclor-1254 (PCB-1254)	µg/kg	40	18	35	1700	338
Aroclor-1260 (PCB-1260)	µg/kg	40	6	23	1300	398
Pesticides						
4,4'-DDD	µg/kg	39	1	8.6	8.6	8.6
4,4'-DDE	µg/kg	39	10	0.44	52	25
4,4'-DDT	µg/kg	39	9	0.71	820	109
alpha-Chlordane	µg/kg	39	2	12	13	13
Dieldrin	µg/kg	39	7	7.2	65	23
Endrin	µg/kg	39	1	2.6	2.6	2.6
Endrin aldehyde	µg/kg	39	4	1.7	5.1	3.5
Endrin ketone	µg/kg	39	1	89	89	89
gamma-BHC (lindane)	µg/kg	39	1	18	18	18
gamma-Chlordane	µg/kg	39	4	1.4	30	14
Heptachlor epoxide	µg/kg	39	2	2.1	3.5	2.8
Methoxychlor	µg/kg	39	8	0.94	19	5.2
Herbicides						
2,4,5-TP (Silvex)	µg/kg	26	1	4.6	4.6	4.6
Dioxin/Furans						
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	3	1	56	56	56
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	3	3	23	340	133
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	3	2	11	250	131
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	3	2	9.4	110	60
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	3	3	0.083	12	4
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	3	3	0.27	170	58
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	3	3	0.11	8.9	3
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	3	3	0.46	53	18
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	3	3	0.2	17	6

Table 4.14

Summary of Detected Values
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Parameters	Units	Samples	Detects	Min Detect	Max Detect	Average (Detects)
Dioxin/Furans (cont'd)						
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	3	3	0.35	25	9
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	3	2	0.87	36	18
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	3	1	10	10	10
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	3	3	0.19	75	25
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	3	3	0.15	89	30
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	3	3	0.24	57	20
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	3	3	0.078	4	1.4
Total heptachlorodibenzofuran (HpCDF)	pg/g	3	3	1.7	320	115
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	3	3	3.8	220	82
Total hexachlorodibenzofuran (HxCDF)	pg/g	3	3	8.2	620	216
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	3	3	3.2	260	92
Total pentachlorodibenzofuran (PeCDF)	pg/g	3	3	17	1000	348
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	3	3	1.9	430	221
Total tetrachlorodibenzofuran (TCDF)	pg/g	3	3	19	1900	656
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	3	3	0.63	230	79
Asbestos						
Chrysotile asbestos	%	2	2	0.25	1	0.6
General Chemistry						
Cyanide (total)	mg/kg	36	17	0.19	13	2
Ignitability	deg F	1	1	140	140	140
pH corrosivity	s.u.	1	1	8.3	8.3	8.3
Sulfide	mg/kg	1	1	18.6	18.6	18.6
Total solids	%	22	22	75.6	96.1	89.7

Notes:

< - Less than reported value.
> - Greater than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 4.15

Summary of Detected Values
Soil/ Fill Samples - EU18
South Dayton Dump and Landfill Site
Moraine, Ohio

Parameters	Units	Samples	Detects	Min Detect	Max Detect	Average (Detects)
Volatiles						
1,3-Dichlorobenzene	µg/kg	4	1	1.9	1.9	1.9
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	7	3	5.2	37	17
Acetone	µg/kg	7	1	3	3	3
Methylene chloride	µg/kg	7	1	55	55	55
Tetrachloroethene	µg/kg	6	1	3.7	3.7	3.7
Toluene	µg/kg	5	2	5	7	6
Trichloroethene	µg/kg	8	1	3.5	3.5	3.5
Semi-Volatiles						
2-Methylnaphthalene	µg/kg	8	6	13	1900	614
3&4-Methylphenol	µg/kg	5	1	71	71	71
Acenaphthene	µg/kg	8	3	38	520	203
Acenaphthylene	µg/kg	7	2	380	1100	740
Acetophenone	µg/kg	5	3	38	150	83
Anthracene	µg/kg	8	5	4.9	2100	485
Benzaldehyde	µg/kg	5	2	92	200	146
Benzo(a)anthracene	µg/kg	8	6	11	6900	1459
Benzo(a)pyrene	µg/kg	8	5	14	6000	1575
Benzo(b)fluoranthene	µg/kg	8	6	12	8500	1957
Benzo(g,h,i)perylene	µg/kg	8	4	10	3900	1433
Benzo(k)fluoranthene	µg/kg	8	3	110	2900	1270
Biphenyl (1,1-Biphenyl)	µg/kg	5	2	74	160	117
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	8	3	92	240	151
Butyl benzylphthalate (BBP)	µg/kg	8	1	33	33	33
Carbazole	µg/kg	7	3	52	870	333
Chrysene	µg/kg	8	8	14	6700	1115
Dibenz(a,h)anthracene	µg/kg	8	3	58	1200	556
Dibenzofuran	µg/kg	8	3	170	530	390
Di-n-butylphthalate (DBP)	µg/kg	8	1	27	27	27
Fluoranthene	µg/kg	8	6	14	15000	2945
Fluorene	µg/kg	8	4	4.4	860	244
Indeno(1,2,3-cd)pyrene	µg/kg	8	3	160	3800	1753
Naphthalene	µg/kg	8	6	20	1400	453
Phenanthrene	µg/kg	8	8	22	7900	1251
Phenol	µg/kg	7	2	46	48	47
Pyrene	µg/kg	8	6	14	12000	2488
Metals						
Aluminum	mg/kg	8	8	1140	7600	3906
Antimony	mg/kg	8	5	0.21	3.4	1.4
Arsenic	mg/kg	8	7	1.6	41	14
Barium	mg/kg	8	8	6.3	310	101
Beryllium	mg/kg	8	5	0.061	5.8	2.0
Cadmium	mg/kg	8	6	0.13	1.2	0.7
Calcium	mg/kg	8	8	590	45000	13433
Chromium	mg/kg	8	8	8.5	52	26
Chromium III (trivalent)	mg/kg	5	5	17	52	33
Chromium VI (hexavalent)	mg/kg	5	2	0.56	0.91	0.74
Cobalt	mg/kg	8	7	1.4	16	6.3
Copper	mg/kg	8	8	34	210	97
Iron	mg/kg	8	8	9700	47000	21475
Lead	mg/kg	8	8	6.4	170	58
Lead - coarse fraction	mg/kg	2	2	48	200	124
Lead - fine fraction	mg/kg	2	2	260	290	275
Lead - total (calculated by fine/coarse fraction)	mg/kg	2	2	84	220	152
Magnesium	mg/kg	8	8	340	18000	5844
Manganese	mg/kg	8	8	120	1400	425
Mercury	mg/kg	8	3	0.097	0.4	0.3
Nickel	mg/kg	8	8	11.3	51	27
Potassium	mg/kg	8	8	81	1500	551
Selenium	mg/kg	8	6	0.23	6.3	2.5
Silver	mg/kg	8	5	0.082	0.35	0.19
Sodium	mg/kg	8	8	44	390	228
Thallium	mg/kg	8	5	0.89	2.4	1.5
Vanadium	mg/kg	8	8	0.62	60	16
Zinc	mg/kg	8	8	18	550	155

Table 4.15

Summary of Detected Values
Soil/ Fill Samples - EU18
South Dayton Dump and Landfill Site
Moraine, Ohio

Parameters	Units	Samples	Detects	Min Detect	Max Detect	Average (Detects)
PCBs						
Aroclor-1248 (PCB-1248)	µg/kg	8	1	4200	4200	4200
Aroclor-1254 (PCB-1254)	µg/kg	7	2	130	240	185
Aroclor-1260 (PCB-1260)	µg/kg	8	2	200	2800	1500
Pesticides						
Endosulfan II	µg/kg	7	1	4	4	4
Endrin	µg/kg	7	1	2.3	2.3	2.3
Endrin aldehyde	µg/kg	7	2	6.6	6.6	6.6
gamma-Chlordane	µg/kg	7	1	0.96	0.96	0.96
Heptachlor epoxide	µg/kg	7	1	0.49	0.49	0.49
Methoxychlor	µg/kg	7	1	1.8	1.8	1.8
Dioxin/Furans						
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	5	5	41	6200	1301
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	5	1	57	57	57
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	5	5	7.3	62	27
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	5	1	1.8	1.8	1.8
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	5	3	1.2	7.5	4.5
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	5	2	0.81	11	5.9
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	5	3	1.8	5.6	3.3
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	5	3	0.99	17	6.6
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	5	3	0.98	18	7.2
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	5	1	3.1	3.1	3.1
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	5	1	10	10	10
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	5	2	1.9	4.2	3.1
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	5	3	1.3	3.9	2.7
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	5	3	1	1.8	1.4
Total heptachlorodibenzofuran (HpCDF)	pg/g	5	5	4	94	28
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	5	5	13	130	52
Total hexachlorodibenzofuran (HxCDF)	pg/g	5	5	1.4	47	16
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	5	4	2.9	94	31
Total pentachlorodibenzofuran (PeCDF)	pg/g	5	4	8	43	22
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	5	4	0.53	58	16
Total tetrachlorodibenzofuran (TCDF)	pg/g	5	4	5.4	130	46
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	5	2	2.1	10	6.1
Asbestos						
Chrysotile asbestos	%	1	1	0.25	0.25	0.25
General Chemistry						
Cyanide (total)	mg/kg	7	3	0.31	0.94	0.60
Soot carbon	mg/kg	5	5	1300	67000	33840
Total organic carbon (TOC)	mg/kg	5	5	5200	32000	20820

Notes:

< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
E - Estimated because of the presence of interference (Inorganics).
J - Estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Table 4.16

Summary of Detected Values
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Parameters	Units	Samples	Detects	Min Detect	Max Detect	Average (Detects)
Volatiles						
1,1,1-Trichloroethane	µg/kg	78	10	0.71	1500	162
1,1,2-Trichloroethane	µg/kg	73	1	45	45	45
1,1-Dichloroethane	µg/kg	77	13	0.77	720	196
1,1-Dichloroethene	µg/kg	77	1	79	79	79
1,2,4-Trichlorobenzene	µg/kg	64	4	0.98	130	69
1,2-Dichlorobenzene	µg/kg	65	3	6.9	250	152
1,2-Dichloroethene (total)	µg/kg	16	1	200	200	200
1,3-Dichlorobenzene	µg/kg	67	5	0.89	180	42
1,4-Dichlorobenzene	µg/kg	66	8	0.87	12000	2261
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	86	23	1	1900	205
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	84	10	0.52	940	167
Acetone	µg/kg	86	7	9.3	880	148
Benzene	µg/kg	77	13	0.36	320	52
Carbon disulfide	µg/kg	79	14	0.41	150	15
Carbon tetrachloride	µg/kg	77	1	2.7	2.7	2.7
Chlorobenzene	µg/kg	74	20	0.66	560000	29193
Chloroethane	µg/kg	77	4	1.4	63	21
cis-1,2-Dichloroethene	µg/kg	70	4	0.88	1100	310
Cyclohexane	µg/kg	70	11	0.31	160	39
Ethylbenzene	µg/kg	74	19	0.34	350000	18673
Isopropyl benzene	µg/kg	66	16	0.27	1800	361
Methyl acetate	µg/kg	70	17	2.1	2400	321
Methyl cyclohexane	µg/kg	70	21	0.35	970	143
Methyl tert butyl ether (MTBE)	µg/kg	70	1	2	2	2
Methylene chloride	µg/kg	78	9	1.5	110	30
Styrene	µg/kg	73	2	0.9	16	8.5
Tetrachloroethene	µg/kg	84	18	0.96	1100	142
Toluene	µg/kg	86	36	0.41	1600	175
trans-1,2-Dichloroethene	µg/kg	70	1	83	83	83
Trichloroethene	µg/kg	87	9	0.81	8400	966
Trichlorofluoromethane (CFC-11)	µg/kg	70	1	79	79	79
Trifluorotrichloroethane (CFC-113)	µg/kg	69	1	21	21	21
Vinyl chloride	µg/kg	77	3	18	59	39
Xylenes (total)	µg/kg	82	24	0.89	3000000	126384
Semi-Volatiles						
2,4-Dimethylphenol	µg/kg	55	2	33	100	67
2-Chlorophenol	µg/kg	55	1	50	50	50
2-Methylnaphthalene	µg/kg	63	51	4.1	29000	1218
2-Methylphenol	µg/kg	55	3	15	42	26
3&4-Methylphenol	µg/kg	33	5	28	490	185
Acenaphthene	µg/kg	63	28	5.8	120000	4441
Acenaphthylene	µg/kg	54	25	7.7	3100	190
Acetophenone	µg/kg	47	15	19	3900	461
Anthracene	µg/kg	63	44	4.6	200000	4817
Benzaldehyde	µg/kg	47	13	16	420	137
Benzo(a)anthracene	µg/kg	63	48	16	390000	8811
Benzo(a)pyrene	µg/kg	63	46	13	340000	7947
Benzo(b)fluoranthene	µg/kg	63	49	21	460000	10243
Benzo(g,h,i)perylene	µg/kg	63	43	11	210000	5343
Benzo(k)fluoranthene	µg/kg	63	40	12	170000	4749
Biphenyl (1,1-Biphenyl)	µg/kg	47	23	13	11000	627
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	64	35	24	560000	16889
Butyl benzylphthalate (BBP)	µg/kg	63	12	25	45000	5737
Carbazole	µg/kg	54	9	22	140000	15671
Chrysene	µg/kg	63	51	11	350000	7496
Dibenz(a,h)anthracene	µg/kg	63	24	12	66000	2987
Dibenzofuran	µg/kg	63	34	10	71000	2334
Diethyl phthalate	µg/kg	54	5	43	9700	2102
Dimethyl phthalate	µg/kg	54	1	2000	2000	2000
Di-n-butylphthalate (DBP)	µg/kg	63	17	18	1500	232
Di-n-octyl phthalate (DnOP)	µg/kg	54	1	23	23	23
Fluoranthene	µg/kg	63	58	15	840000	15719
Fluorene	µg/kg	63	34	4.8	150000	4781
Indeno(1,2,3-cd)pyrene	µg/kg	63	42	8.1	190000	4974

Table 4.16

Summary of Detected Values
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Parameters	Units	Samples	Detects	Min Detect	Max Detect	Average (Detects)
Semi-Volatiles (cont'd)						
Naphthalene	µg/kg	63	49	6.4	110000	2724
N-Nitrosodiphenylamine	µg/kg	63	1	450	450	450
Phenanthrene	µg/kg	63	55	14	690000	13834
Phenol	µg/kg	55	8	25	1400	311
Pyrene	µg/kg	63	58	15	670000	12492
Metals						
Aluminum	mg/kg	64	64	1050	16000	5766
Antimony	mg/kg	64	45	0.18	120	15
Arsenic	mg/kg	64	64	2.4	77.2	18
Barium	mg/kg	64	64	15	2300	354
Beryllium	mg/kg	64	64	0.088	5.8	1.3
Cadmium	mg/kg	64	59	0.069	54	5.8
Calcium	mg/kg	64	64	970	120000	31543
Chromium	mg/kg	70	70	2.5	380	50
Chromium III (trivalent)	mg/kg	17	17	6.2	300	70
Chromium VI (hexavalent)	mg/kg	17	3	5	16	9
Cobalt	mg/kg	64	64	2.4	240	13
Copper	mg/kg	64	64	7.9	191000	3636
Iron	mg/kg	64	64	1860	210000	29272
Lead	mg/kg	64	64	3.7	13000	984
Lead - coarse fraction	mg/kg	3	3	59	6400	2233
Lead - fine fraction	mg/kg	3	3	120	4200	1560
Lead - total (calculated by fine/coarse fraction)	mg/kg	3	3	70	5900	2077
Magnesium	mg/kg	64	64	294	45000	12160
Manganese	mg/kg	64	64	6.9	2200	389
Mercury	mg/kg	64	47	0.023	1.5	0.20
Nickel	mg/kg	64	64	4.5	420	66
Potassium	mg/kg	64	63	160	2600	785
Selenium	mg/kg	64	49	0.22	14	3.3
Silver	mg/kg	64	39	0.024	7.6	1.2
Sodium	mg/kg	64	41	43.7	3000	390
Thallium	mg/kg	64	50	0.091	4.5	0.7
Vanadium	mg/kg	64	64	4.5	170	28
Zinc	mg/kg	64	64	7.7	14000	987
PCBs						
Aroclor-1242 (PCB-1242)	µg/kg	55	8	51	930000	117188
Aroclor-1248 (PCB-1248)	µg/kg	64	6	360	2700	1382
Aroclor-1254 (PCB-1254)	µg/kg	55	28	19	450000	17933
Aroclor-1260 (PCB-1260)	µg/kg	64	15	23	1400	424
Pesticides						
4,4'-DDD	µg/kg	55	3	4.4	28	13
4,4'-DDE	µg/kg	55	13	2.6	69	20
4,4'-DDT	µg/kg	55	5	0.6	23	9
alpha-Chlordane	µg/kg	55	1	5.4	5.4	5.4
Dieldrin	µg/kg	55	2	24	560	292
Endosulfan I	µg/kg	55	1	1.5	1.5	1.5
Endosulfan II	µg/kg	55	1	22	22	22
Endosulfan sulfate	µg/kg	55	1	1.7	1.7	1.7
Endrin	µg/kg	55	5	1.4	140	55
Endrin aldehyde	µg/kg	55	4	2.2	110	42
Endrin ketone	µg/kg	55	1	7.5	7.5	7.5
gamma-BHC (lindane)	µg/kg	55	3	0.42	3400	1134
gamma-Chlordane	µg/kg	55	5	0.35	43	17
Heptachlor epoxide	µg/kg	55	2	0.78	34	17
Methoxychlor	µg/kg	55	7	2.1	19	7.3
Dioxin/Furans						
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	17	12	4.9	2300	273
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	17	17	28	9400	1420
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	17	15	4.7	1800	208
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	17	17	4.8	1600	229
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	17	11	0.49	240	30

Table 4.16

Summary of Detected Values
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Parameters	Units	Samples	Detects	Min Detect	Max Detect	Average (Detects)
Dioxin/Furans (cont'd)						
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	17	15	1.3	960	118
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	17	9	0.18	22	3.1
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	17	14	0.83	330	42
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	17	16	0.78	110	23
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	17	1	0.21	0.21	0.21
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	17	14	0.88	150	32
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	17	16	0.28	210	32
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	17	13	0.41	110	16
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	17	14	0.64	330	39
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	17	17	0.69	440	56
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	17	17	0.61	710	67
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	17	12	0.14	21	3.7
Total heptachlorodibenzofuran (HpCDF)	pg/g	17	17	8.1	2700	303
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	17	17	9.5	3600	477
Total hexachlorodibenzofuran (HxCDF)	pg/g	17	17	9.5	3200	384
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	17	17	8.8	1600	286
Total pentachlorodibenzofuran (PeCDF)	pg/g	17	17	10	4800	597
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	17	17	16	270000	17311
Total tetrachlorodibenzofuran (TCDF)	pg/g	17	17	16	8300	1151
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	17	17	1.5	1400	145
Asbestos						
Chrysotile asbestos	%	17	17	0.25	8	1
General Chemistry						
Cyanide (total)	mg/kg	55	20	0.084	120	7
Fraction organic carbon (FOC)	%	5	5	0.7	10.5	5
Total solids	%	15	15	59.7	91.5	83

Notes:

< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
D - Compounds at secondary dilution factor.
E - Estimated because of the presence of interference (Inorganics).
E - Exceed calibration range of GC/MS instrument (Organics).
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Table 4.22

Summary of Analytical Results - Asbestos
OU1 Soil/FIll Samples
South Dayton Dump and Landfill Site
Moraine, Ohio

					Asbestos	
				Parameter:	**Asbestos**	**Chrysotile asbestos**
Sample Location	**Sample ID**	**Sample Date**	**Sample Depth**	**Unit:**	**%**	**%**
				Criteria:	**1**	**1**
Surface Soil						
SS-153-AS	SS-38443-112018-JC-153	11/20/2018	0-0.5 ft BGS		ND	-
SS-154-AS	SS-38443-112018-JC-154	11/20/2018	0-0.5 ft BGS		ND	-
SS-155-AS	SS-38443-112718-JC-155	11/27/2018	0.17-1.5 ft BGS		ND	-
SS-156-AS	SS-38443-112018-JC-156	11/20/2018	0-0.5 ft BGS		ND	-
SS-157-AS	SS-38443-112018-JC-157	11/20/2018	0-0.5 ft BGS		ND	-
SS-158-AS	SS-38443-110218-JC-158	11/2/2018	0.25-0.75 ft BGS		ND	-
SS-159-AS	SS-38443-110218-JC-159	11/2/2018	0.25-0.75 ft BGS		ND	-
SS-160-AS	SS-38443-110218-JC-160	11/2/2018	0.17-0.67 ft BGS		ND	-
SS-161-AS	SS-38443-103118-JC-161	10/31/2018	0.5-1 ft BGS		ND	-
SS-162-AS	SS-38443-103118-JC-162	10/31/2018	0.17-0.67 ft BGS		ND	-
SS-163-AS	SS-38443-103118-JC-163	10/31/2018	0.33-0.83 ft BGS		-	<0.25
SS-164-AS	SS-38443-103118-JC-164	10/31/2018	0.25-0.75 ft BGS		ND	-
SS-165-AS	SS-38443-103018-JC-165	10/30/2018	0.5-1 ft BGS		ND	-
SS-166-AS	SS-38443-103018-JC-166	10/30/2018	0.5-1 ft BGS		ND	-
SS-167-AS	SS-38443-103018-JC-167	10/30/2018	0-0.5 ft BGS		ND	-
SS-168-AS	SS-38443-103018-JC-168	10/30/2018	0-0.5 ft BGS		-	<0.25
SS-169-AS	SS-38443-103018-JC-169	10/30/2018	0-0.5 ft BGS		ND	-
SS-170-AS	SS-38443-102918-JC-170	10/29/2018	0-0.5 ft BGS		ND	-
SS-171-AS	SS-38443-102918-JC-171	10/29/2018	0-0.5 ft BGS		-	<0.25
SS-172-AS	SS-38443-102918-JC-172	10/29/2018	0.17-0.67 ft BGS		ND	-
SS-173-AS	SS-38443-102918-JC-173	10/29/2018	0-0.5 ft BGS		ND	-
SS-174-AS	SS-38443-122018-JC-174	12/20/2018	0-0.5 ft BGS		ND	-
SS-175-AS	SS-38443-112718-JC-175	11/27/2018	0-0.5 ft BGS		ND	-
SS-176-AS	SS-38443-112718-JC-176	11/27/2018	0.33-0.83 ft BGS		-	<0.25
SS-177-AS	SS-38443-122018-JC-177	12/20/2018	0-0.5 ft BGS		ND	-
SS-178-AS	SS-38443-122018-JC-178	12/20/2018	0-0.5 ft BGS		ND	-
SS-179-AS	SS-38443-102618-JC-179	10/26/2018	0-0.5 ft BGS		ND	-
SS-180-AS	SS-38443-102618-JC-180	10/26/2018	0.17-0.67 ft BGS		-	<0.25
SS-181-AS	SS-38443-111918-JC-181	11/19/2018	0-0.5 ft BGS		-	0.25
SS-182-AS	SS-38443-111918-JC-182	11/19/2018	0-0.5 ft BGS		-	<0.25
SS-183-AS	SS-38443-111618-JC-183	11/16/2018	0-0.5 ft BGS		-	<0.25
SS-184-AS	SS-38443-111618-JC-184	11/16/2018	0-0.5 ft BGS		-	<0.25
SS-185-AS	SS-38443-111618-JC-185	11/16/2018	0-0.5 ft BGS		-	0.25
SS-186-AS	SS-38443-111918-JC-186	11/19/2018	0-0.5 ft BGS		ND	-
SS-187-AS	SS-38443-111618-JC-187	11/16/2018	0-0.5 ft BGS		-	<0.25
SS-188-AS	SS-38443-101618-JC-188	10/16/2018	0-0.5 ft BGS		-	0.5
SS-189-AS	SS-38443-111618-JC-189	11/16/2018	0-0.5 ft BGS		-	<0.25
SS-190-AS	SS-38443-111918-JC-190	11/19/2018	0-0.5 ft BGS		-	<0.25
SS-191-AS	SS-38443-111618-JC-191	11/16/2018	0-0.5 ft BGS		ND	-
SS-192-AS	SS-38443-111618-JC-192	11/16/2018	0-0.5 ft BGS		-	<0.25
Subsurface Soil						
BH94-17	S-38443-122017-JC-016	12/20/2017	13-14.8 ft BGS		ND	-
BH95-17	S-38443-121917-JC-015	12/19/2017	5-7 ft BGS		ND	-
BH96-18	S-38443-010318-JC-025	1/3/2018	13-15 ft BGS		-	<1
BH97-17	S-38443-120817-JC-005	12/8/2017	13-15 ft BGS		ND	-
BH102-17	S-38443-120717-JC-004	12/7/2017	4.5-6.5 ft BGS		ND	-
BH103-17	S-38443-120717-JC-002	12/7/2017	3-5 ft BGS		ND	-
BH104-17	S-38443-120717-JC-003	12/7/2017	3-5 ft BGS		ND	-
BH105-18	S-38443-011718-JC-047	1/17/2018	8.5-10.5 ft BGS		ND	-
BH106-18	S-38443-011718-JC-048	1/17/2018	13-15 ft BGS		ND	-
BH107-18	S-38443-011618-JC-046	1/16/2018	12-14 ft BGS		ND	-
BH108-18	S-38443-011218-JC-043	1/12/2018	7-9 ft BGS		ND	-
BH109-18	S-38443-011618-JC-044	1/16/2018	7.5-9.5 ft BGS		ND	-
BH110-18	S-38443-011618-JC-045	1/16/2018	6.3-8.3 ft BGS		ND	-
BH111-18	S-38443-011118-JC-042	1/11/2018	7.5-9.5 ft BGS		ND	-
BH112-17	S-38443-121917-JC-014	12/19/2017	13-15 ft BGS		-	<1
BH113-18	S-38443-010318-JC-026	1/3/2018	9-11 ft BGS		-	<1
BH114-18	S-38443-011118-JC-040	1/11/2018	3-5 ft BGS		ND	-
BH115-18	S-38443-011118-JC-039	1/11/2018	3-5 ft BGS		ND	-
BH116-18	S-38443-011118-JC-038	1/11/2018	11-13 ft BGS		-	**2**
BH117-18	S-38443-011818-JC-050	1/18/2018	10-12 ft BGS		ND	-
BH118-18	S-38443-011818-JC-051	1/18/2018	3-5 ft BGS		ND	-
BH119-18	S-38443-011818-JC-053	1/18/2018	9-11 ft BGS		ND	-
BH120-18	S-38443-011918-JC-055	1/19/2018	8-10 ft BGS		ND	-

Table 4.22

Summary of Analytical Results - Asbestos
OU1 Soil/FIll Samples
South Dayton Dump and Landfill Site
Moraine, Ohio

					Asbestos	
				Parameter:	**Asbestos**	**Chrysotile asbestos**
Sample Location	**Sample ID**	**Sample Date**	**Sample Depth**	**Unit:**	**%**	**%**
				Criteria:	**1**	**1**
Subsurface Soil (cont'd)						
BH121-18	S-38443-011918-JC-054	1/19/2018	8-10 ft BGS		ND	-
BH122-18	S-38443-053118-JC-115	5/31/2018	6-8 ft BGS		ND	-
BH125-18	S-38443-053018-JC-106	5/30/2018	7-9 ft BGS		ND	-
BH126-18	S-38443-053018-JC-101	5/30/2018	10-12 ft BGS		ND	-
BH127-18	S-38443-053018-JC-110	5/30/2018	7-9 ft BGS		ND	-
BH128-18	S-38443-053018-JC-108	5/30/2018	13-15 ft BGS		ND	-
BH129-18	S-38443-053018-JC-103	5/30/2018	13-15 ft BGS		ND	-
BH130-18	S-38443-053018-JC-112	5/30/2018	9.5-11.5 ft BGS		ND	-
BH132-18	S-38443-053118-JC-119	5/31/2018	6.5-8.5 ft BGS		ND	-
BH133-18	S-38443-053118-JC-117	5/31/2018	7-9 ft BGS		ND	-
BH136-18	S-38443-010818-JC-032	1/8/2018	1-3 ft BGS		ND	-
BH136-18	S-38443-010818-JC-034	1/8/2018	15-17 ft BGS		ND	-
BH137-18	S-38443-010818-JC-030	1/8/2018	13-15 ft BGS		ND	-
BH137-18	S-38443-010818-JC-031	1/8/2018	26-28 ft BGS		ND	-
BH138-18	S-38443-010918-JC-035	1/9/2018	8-10 ft BGS		ND	-
BH139-18	S-38443-010418-JC-028	1/4/2018	13-15 ft BGS		-	**10**
BH140-18	S-38443-010818-JC-029	1/8/2018	13-15 ft BGS		ND	-
BH141-18	S-38443-010918-JC-036	1/9/2018	6-8 ft BGS		ND	-
BH142-18	S-38443-010418-JC-027	1/4/2018	8-10 ft BGS		-	<1
BH143-18	S-38443-012318-JC-061	1/23/2018	10-12 ft BGS		ND	-
BH144-18	S-38443-012218-JC-057	1/22/2018	15.5-16.5 ft BGS		ND	-
BH145-18	S-38443-012218-JC-059	1/22/2018	9-11 ft BGS		ND	-
BH146-18	S-38443-051718-JC-082	5/17/2018	13-15 ft BGS		ND	-
BH147-18	S-38443-051718-JC-077	5/17/2018	12-14 ft BGS		ND	-
BH148-18	S-38443-051718-JC-079	5/17/2018	6-8 ft BGS		ND	-
BH149-18	S-38443-052918-JC-088	5/29/2018	10-12 ft BGS		ND	-
BH150-18	S-38443-052918-JC-086	5/29/2018	13-15 ft BGS		ND	-
BH151-18	S-38443-052918-JC-090	5/29/2018	10-12 ft BGS		ND	-
BH152-18	S-38443-052918-JC-099	5/29/2018	9-11 ft BGS		ND	-
BH153-18	S-38443-052918-JC-092	5/29/2018	13-15 ft BGS		ND	-
BH154-18	S-38443-052918-JC-094	5/29/2018	13-15 ft BGS		ND	-
BH155-18	S-38443-052918-JC-097	5/29/2018	13-15 ft BGS		ND	-
BH156-18	S-38443-051618-JC-074	5/16/2018	13-15 ft BGS		ND	-
BH157-18	S-38443-051718-JC-083	5/17/2018	12-14 ft BGS		ND	-
BH159-17	S-38443-121817-JC-010	12/18/2017	13-15 ft BGS		ND	-
BH159-17	S-38443-121817-JC-011	12/18/2017	19-21 ft BGS		ND	-
BH164-17	S-38443-122017-JC-018	12/20/2017	18-20 ft BGS		-	<1
BH165-17	S-38443-122017-JC-020	12/20/2017	21.5-23.5 ft BGS		-	<1
BH166-17	S-38443-121917-JC-013	12/19/2017	18-20 ft BGS		ND	-
BH173-17	S-38443-122117-JC-022	12/21/2017	17.5-19.5 ft BGS		-	**8**
BH175-17	S-38443-121817-JC-009	12/18/2017	15.5-17.5 ft BGS		ND	-
TP-3	F-38443-092408-KMV-010	9/24/2008	13.5 ft BGS		ND	-
TP-5	S-38443-100608-KMV-054	10/6/2008	8 ft BGS		ND	-
TP-8	TP-8	11/9/2017	4-6 ft BGS		ND	-
TP-9	TP-9	11/9/2017	0-2 ft BGS		ND	-
TP-10	TP-10	11/9/2017	8-10 ft BGS		-	<1
TT-9	S-38443-100308-KMV-048	10/3/2008	17 ft BGS		ND	-
TT-24	SO-38443-032018-BW-001	3/20/2018	13-15 ft BGS		ND	-
TT-31	TT-31	11/7/2017	8-10 ft BGS		-	<1
TT-32	S-38443-110717-BW-030	11/7/2017	12-14 ft BGS		-	<1
TT-33	TT-33	11/3/2017	2-4 ft BGS		ND	-
TT-34	S-38443-110717-BW-027	11/7/2017	8-10 ft BGS		-	<1
TT-35	S-38443-110617-BW-025	11/6/2017	12-14 ft BGS		ND	-
TT-36	TT-36	11/6/2017	8-10 ft BGS		ND	-
TT-37	TT-37	11/6/2017	4-6 ft BGS		ND	-
TT-38	TT-38	11/2/2017	2-4 ft BGS		ND	-
TT-40	TT-40	11/3/2017	2-4 ft BGS		ND	-
TT-43	TT-43	11/8/2017	8-10 ft BGS		ND	-
VAS-5	S-38443-121508-KMV-096	12/15/2008	7 ft BGS		-	**60**

Notes:

< - Less than reported value.
ND - Not detected.
- - Not applicable.

Table 4.23

Summary of Analytical Results - Dioxin/ Furans
OU1 Soil/Fill Samples
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:						**on-site (EU09)**	**on-site (EU10)**	**on-site (EU10)**	**on-site (EU11)**	**on-site (EU12)**	**on-site (EU13)**	**on-site (EU14)**	**on-site (EU15)**
Sample Location:						**TP-17**	**BH97-17**	**BH97-17**	**TP-13**	**BH112-17**	**TT-40**	**BH105-18**	**BH143-18**
Sample ID:						**S-38443-110217-BW-016**	**S-38443-120817-JC-005**	**S-38443-120817-JC-006**	**S-38443-110117-BW-012**	**S-38443-121917-JC-014**	**S-38443-110317-BW-022**	**S-38443-011718-JC-047**	**S-38443-012318-JC-061**
Sample Date:						**11/2/2017**	**12/8/2017**	**12/8/2017**	**11/1/2017**	**12/19/2017**	**11/3/2017**	**1/17/2018**	**1/23/2018**
Sample Depth:						**8-10 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**	**8-10 ft BGS**	**13-15 ft BGS**	**6-8 ft BGS**	**8.5-10.5 ft BGS**	**10-12 ft BGS**
								Duplicate					
Parameters	**Units**	**RSLs**		**Detects:**	**Max Detect:**								
		Residential	**Industrial**										
Dioxin/Furans		a	b										
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	--	--	34	2300	1.2 U	**11 J**	**11**	9.4 U	**4.0 J**	**13**	**25**	0.39 U
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	--	--	49	9400	**19**	**160**	**150**	**150**	**79 J**	**160**	**380**	**57**
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	42	1800	**0.80 J**	**13**	**11**	**7.1**	**1.7 J**	**12**	**48**	**1.0 J**
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	47	1600	**2.7 J**	**14**	**14**	**27**	**4.8 J**	**23**	**52**	**5.2 J**
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	32	240	0.18 U	**0.45 J**	**0.51 J**	0.23 U	0.21 UJ	**0.85 J**	**3.0 J**	0.099 UJ
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	41	960	**0.35 J**	**0.82 J**	**0.87 J**	**1.2 J**	0.22 UJ	**4.2 J**	**11 J**	0.074 UJ
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	33	48	**0.18 J**	**0.22 J**	**0.23 J**	**0.51 J**	0.097 UJ	**0.43 J**	**1.7 J**	0.065 U
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	41	330	**0.20 J**	**1.2 J**	**1.2 J**	**0.85 J**	0.20 UJ	**1.7 J**	**7.9 J**	0.069 U
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	43	810	**0.38 J**	**0.91 J**	**0.95 J**	**4.5 J**	**0.61 J**	**3.0 J**	**6.9 J**	0.070 U
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	2	0.88	0.090 U	0.24 U	0.15 U	0.15 U	0.24 UJ	0.047 U	1.1 UJ	0.088 U
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	41	510	**0.36 J**	**0.68 J**	**0.60 J**	**2.3 J**	**0.37 J**	**2.2 J**	**5.6 J**	0.063 U
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	36	210	0.082 U	0.21 U	0.17 U	**0.27 J**	0.076 U	**1.1 J**	**2.8 J**	0.16 U
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	32	430	**0.26 J**	0.14 U	**0.32 J**	**0.66 J**	0.064 U	**0.52 J**	**2.1 J**	0.17 U
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	38	330	**0.20 J**	**0.45 J**	**0.44 J**	**0.63 J**	0.20 UJ	**1.5 J**	**6.0 J**	0.074 U
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	42	440	**0.21 J**	0.19 U	**0.41 J**	**0.39 J**	0.073 U	**2.5 J**	**5.1 J**	0.14 U
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	--	--	43	710	**0.38 J**	**0.82 J**	**1.2**	**1.1**	**0.69 J**	**3.8**	**17**	0.30 UJ
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	30	180	**0.081 J**	0.068 U	**0.18 J**	**0.17 J**	0.12 U	**0.21 J**	0.96 U	0.43 U
Total heptachlorodibenzofuran (HpCDF)	pg/g	--	--	49	2700	**1.7 J**	**30 J**	**28 J**	**18 J**	**5.8 J**	**27 J**	**82 J**	**1.9 J**
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	48	3800	**5.2 J**	**27 J**	**28 J**	**51 J**	**9.8 J**	**46 J**	**98 J**	**10 J**
Total hexachlorodibenzofuran (HxCDF)	pg/g	--	--	49	3200	**4.4 J**	**30 J**	**25 J**	**14 J**	**1.8 J**	**28 J**	**110 J**	**1.5 J**
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	47	8700	**3.7 J**	**7.0 J**	**6.9 J**	**32 J**	**4.0 J**	**22 J**	**59 J**	**1.6 J**
Total pentachlorodibenzofuran (PeCDF)	pg/g	--	--	48	4800	**7.7 J**	**54 J**	**40 J**	**12 J**	**3.5 J**	**33 J**	**180 J**	**2.4 J**
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	45	270000	**8.9 J**	**18 J**	**20 J**	**31 J**	**0.94 J**	**110 J**	**24 J**	0.17 U
Total tetrachlorodibenzofuran (TCDF)	pg/g	--	--	48	8300	**8.5 J**	**64 J**	**49 J**	**19 J**	**7.3 J**	**37 J**	**270 J**	**4.7 J**
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	44	7900	**2.8 J**	**1.9 J**	**1.9 J**	**2.6 J**	**0.45 J**	**3.4 J**	**24 J**	**0.79 J**
Total TEQ (DL @ 0) (1)	pg/g	4.8	22	--	4	**0.65**	**0.83**	**1.5**	**2.5**	**0.26**	**3.6**	**11[a]**	**0.086**
Total TEQ (DL @ 0.5) (1,2)	pg/g	4.8	22	--	4	**0.66**	**0.98**	**1.5**	**2.5**	**0.41**	**3.6**	**11[a]**	**0.52**

Notes:

J - Estimated concentration.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
(1) The TEQs of various dioxin and furan congeners were calculated using the toxicity equivalence factors as defined by the World Health Organization (Van den Berg et al., 2006), as outlined below.

Dioxin and Furan Congener	**TEQ**
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	0.0003
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	0.0003
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	0.01
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	0.01
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	0.01
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	0.1
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	0.1
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	0.1
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	0.1
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	0.1
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	0.1
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	0.03
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	1
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	0.1
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	0.3
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	0.1
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	1

(2) Dioxin and furan congeners that were below the detection limit were conservatively assumed as half of the method detection limit (MDL) (ND = 0.5MDL) for the calculation of the the dioxins and furans TEQ.

Table 4.23

Summary of Analytical Results - Dioxin/ Furans
OU1 Soil/Fill Samples
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:						**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU16)**	**on-site (EU16)**	**on-site (EU16)**	**on-site (EU16)**	**on-site (EU16)**
Sample Location:						**BH143-18**	**BH144-18**	**BH145-18**	**TT-43**	**BH136-18**	**BH136-18**	**BH136-18**	**BH137-18**	**BH137-18**
Sample ID:						**S-38443-012318-JC-062**	**S-38443-012218-JC-057**	**S-38443-012218-JC-059**	**S-38443-110817-BW-033**	**S-38443-010818-JC-032**	**S-38443-010818-JC-033**	**S-38443-010818-JC-034**	**S-38443-010818-JC-030**	**S-38443-010818-JC-031**
Sample Date:						**1/23/2018**	**1/22/2018**	**1/22/2018**	**11/8/2017**	**1/8/2018**	**1/8/2018**	**1/8/2018**	**1/8/2018**	**1/8/2018**
Sample Depth:						**10-12 ft BGS**	**14.5-16.5 ft BGS**	**9-11 ft BGS**	**6-8 ft BGS**	**1-3 ft BGS**	**1-3 ft BGS**	**15-17 ft BGS**	**13-15 ft BGS**	**26-28 ft BGS**
						Duplicate					**Duplicate**			
Parameters	**Units**	**RSLs**		**Detects:**	**Max Detect:**									
		Residential	**Industrial**											
Dioxin/Furans		a	b											
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	--	--	34	2300	**3.5 J**	**1.3 J**	**1.5 J**	**330**	**43 J**	**35**	**17 J**	**7.4 J**	**670**
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	--	--	49	9400	**81 J**	**4.9 J**	**34**	**1400**	**410**	**480**	**130**	**700**	**4600**
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	42	1800	**3.4 J**	**1.4 J**	**4.3 J**	**410**	**120**	**85**	**40 J**	**95**	**430**
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	47	1600	**7.2 J**	0.23 UJ	**16**	**300**	**120**	**140**	**39 J**	**630**	**820**
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	32	240	0.30 UJ	0.12 UJ	0.11 U	**17**	**8.5 J**	**6.9**	**3.7 J**	**1.8 J**	**22**
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	41	960	0.24 UJ	0.13 UJ	**1.5 J**	**130**	**65**	**48 J**	**28 J**	**19 J**	**160 J**
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	33	48	0.019 UJ	0.27 UJ	**0.43 J**	**9.3**	0.39 U	**4.0 J**	**2.6 J**	**48 J**	**25**
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	41	330	0.22 UJ	**0.51 J**	**2.0 J**	**59 J**	**23 J**	**16**	**13 J**	**25 J**	**69 J**
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	43	810	0.021 UJ	0.28 UJ	**2.7 J**	**35**	**16 J**	**18**	**5.6 J**	**310**	**110**
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	2	0.88	0.32 UJ	0.17 UJ	0.28 U	3.8 U	2.0 U	**0.88 J**	2.4 U	1.5 U	7.5 U
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	41	510	0.019 UJ	0.26 UJ	**3.3 J**	**30**	**16 J**	**15**	**5.8 J**	**450**	**140**
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	36	210	0.16 UJ	0.22 UJ	**0.71 J**	**24**	**15 J**	**15**	**8.6 J**	**12 J**	**32**
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	32	430	0.46 UJ	0.33 U	**1.0 J**	**10 J**	6.3 U	15 U	**4.3 J**	**290**	**83**
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	38	330	0.22 UJ	0.13 UJ	**1.5 J**	**47**	**21 J**	**17**	**11 J**	**29 J**	**110 J**
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	42	440	0.13 UJ	0.18 UJ	**1.8 J**	**55**	**29 J**	**30**	**12 J**	**23 J**	**73**
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	--	--	43	710	0.37 U	0.29 U	0.36 U	**28**	**110**	**200**	**8.5 J**	**14 J**	**34 J**
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	30	180	0.58 U	0.62 U	0.34 U	**5.7**	**2.0 J**	**1.3 J**	0.88 U	**78**	**22**
Total heptachlorodibenzofuran (HpCDF)	pg/g	--	--	49	2700	**6.0 J**	**1.4 J**	**7.1 J**	**880 J**	**180 J**	**140 J**	**58 J**	**120 J**	**850 J**
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	48	3800	**14 J**	0.23 U	**26 J**	**600 J**	**260 J**	**300 J**	**80 J**	**1300 J**	**1600 J**
Total hexachlorodibenzofuran (HxCDF)	pg/g	--	--	49	3200	**1.3 J**	**2.7 J**	**54 J**	**830 J**	**230 J**	**190 J**	**97 J**	**370 J**	**1100 J**
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	47	8700	**1.6 J**	0.28 U	**24 J**	**360 J**	**150 J**	**160 J**	**57 J**	**3200 J**	**1100 J**
Total pentachlorodibenzofuran (PeCDF)	pg/g	--	--	48	4800	**3.6 J**	**4.4 J**	**120 J**	**1300 J**	**300 J**	**290 J**	**140 J**	**550 J**	**1900 J**
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	45	270000	0.46 U	0.33 U	**5.0 J**	**2500 J**	**5900 J**	**12000 J**	**50 J**	**2400 J**	**3500 J**
Total tetrachlorodibenzofuran (TCDF)	pg/g	--	--	48	8300	**3.5 J**	**7.2 J**	**200 J**	**1900 J**	**600 J**	**720 J**	**250 J**	**820 J**	**3300 J**
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	44	7900	0.58 U	0.62 U	**2.1 J**	**160 J**	**60 J**	**38 J**	**29 J**	**1300 J**	**530 J**
Total TEQ (DL @ 0) (1)	pg/g	4.8	22	--	4	**0.12**	**0.067**	**2.9**	**75[ab]**	**37[ab]**	**47[ab]**	**16[a]**	**472[ab]**	**207[ab]**
Total TEQ (DL @ 0.5) (1,2)	pg/g	4.8	22	--	4	**0.67**	**0.65**	**3.1**	**75[ab]**	**45[ab]**	**50[ab]**	**17[a]**	**472[ab]**	**207[ab]**

Notes:

J - Estimated concentration.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
(1) The TEQs of various dioxin and furan congeners were calculated using the toxicity equivalence factors as defined by the World Health Organization (Van den Berg et al., 2006), as outlined below.

Dioxin and Furan Congener	**TEQ**
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	0.0003
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	0.0003
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	0.01
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	0.01
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	0.01
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	0.1
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	0.1
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	0.1
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	0.1
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	0.1
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	0.1
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	0.03
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	1
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	0.1
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	0.3
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	0.1
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	1

(2) Dioxin and furan congeners that were below the detection limit were conservatively assumed as half of the method detection limit (MDL) (ND = 0.5MDL) for the calculation of the the dioxins and furans TEQ.

Table 4.23

Summary of Analytical Results - Dioxin/ Furans
OU1 Soil/Fill Samples
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:						**on-site (EU16)**	**on-site (EU16)**	**on-site (EU16)**	**on-site (EU16)**	**on-site (EU16)**	**on-site (EU16)**	**on-site (EU16)**	**on-site (EU17)**
Sample Location:						**BH138-18**	**BH139-18**	**BH140-18**	**BH141-18**	**BH142-18**	**TT-24**	**TT-24**	**TP-8**
Sample ID:						**S-38443-010918-JC-035**	**S-38443-010418-JC-028**	**S-38443-010818-JC-029**	**S-38443-010918-JC-036**	**S-38443-010418-JC-027**	**SO-38443-032018-BW-002**	**SO-38443-032018-BW-001**	**S-38443-110917-BW-040**
Sample Date:						**1/9/2018**	**1/4/2018**	**1/8/2018**	**1/9/2018**	**1/4/2018**	**3/20/2018**	**3/20/2018**	**11/9/2017**
Sample Depth:						**8-10 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**	**6-8 ft BGS**	**8-10 ft BGS**	**2-4 ft bgs**	**13-15 ft BGS**	**14-15 ft BGS**
Parameters	**Units**	**RSLs**		**Detects:**	**Max Detect:**								
		Residential	**Industrial**										
Dioxin/Furans		a	b										
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	--	--	34	2300	**12 J**	**13**	**9.8 J**	**130**	**200 J**	**32**	**730**	0.77 U
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	--	--	49	9400	**48**	**540**	**44**	**1200**	**580**	**510**	**6300**	**23**
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	42	1800	**6.0 J**	**16**	**120**	**100**	**610**	**21**	**870**	0.86 U
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	47	1600	**8.9**	**120**	**22**	**180**	**1400**	**68**	**1200**	1.8 U
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	32	240	**0.33 J**	**0.64 J**	**3.1 J**	**5.8 J**	**15 J**	**1.3 J**	**68**	**0.083 J**
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	41	960	**3.5 J**	**4.4 J**	**120**	**40**	**130**	**6.0**	**340**	**0.27 J**
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	33	48	**0.30 J**	**2.4 J**	**5.1 J**	**3.8 J**	**47 J**	**1.9 J**	**27 J**	**0.11 J**
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	41	330	**5.0 J**	**4.9 J**	**41**	**17 J**	**71 J**	**3.8 J**	**110 J**	**0.46 J**
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	43	810	**1.1 J**	**24**	**6.8**	**16**	**810**	**7.0**	**100**	**0.20 J**
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	2	0.88	0.97 U	1.8 U	2.1 U	1.5 U	8.0 U	0.34 U	1.0 U	0.10 U
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	41	510	**1.0 J**	**16**	**13**	**15**	**510**	**5.5**	**100**	**0.35 J**
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	36	210	**1.3 J**	**0.84 J**	**47**	**11**	**56**	**1.6 J**	**66**	0.032 U
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	32	430	**0.83 J**	**3.5 J**	**14 J**	**5.8 J**	**430**	**2.6 J**	**30 J**	0.037 U
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	38	330	**1.8 J**	1.5 U	**39**	**15**	**51 J**	**2.8**	**140**	**0.19 J**
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	42	440	**3.2 J**	**1.8 J**	**76**	**23**	**91**	**3.4**	**110**	**0.15 J**
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	--	--	43	710	**10**	**3.7**	**70 J**	**17**	**48**	**4.3**	**53**	**0.24 J**
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	30	180	0.13 U	**0.89 J**	**5.7**	**1.4 J**	**180**	**0.50 J**	**7.8 J**	**0.078 J**
Total heptachlorodibenzofuran (HpCDF)	pg/g	--	--	49	2700	**12 J**	**33 J**	**140 J**	**250 J**	**1400 J**	**48 J**	**1700 J**	**1.7 J**
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	48	3800	**16 J**	**220 J**	**47 J**	**390 J**	**3800 J**	**140 J**	**2300 J**	**3.8 J**
Total hexachlorodibenzofuran (HxCDF)	pg/g	--	--	49	3200	**120 J**	**77 J**	**420 J**	**220 J**	**1400 J**	**75 J**	**1400 J**	**8.2 J**
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	47	8700	**11 J**	**160 J**	**100 J**	**180 J**	**8700 J**	**74 J**	**1100 J**	**3.2 J**
Total pentachlorodibenzofuran (PeCDF)	pg/g	--	--	48	4800	**350 J**	**200 J**	**1000 J**	**320 J**	**1800 J**	**140 J**	**1500 J**	**17 J**
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	45	270000	**9.9 J**	**300 J**	**180 J**	**230 J**	**7600 J**	**100 J**	**1600 J**	**1.9 J**
Total tetrachlorodibenzofuran (TCDF)	pg/g	--	--	48	8300	**680 J**	**370 J**	**2600 J**	**610 J**	**2800 J**	**180 J**	**2000 J**	**19 J**
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	44	7900	**10 J**	**250 J**	**350 J**	**120 J**	**7900 J**	**12 J**	**400 J**	**0.63 J**
Total TEQ (DL @ 0) (1)	pg/g	4.8	22	--	4	**4.3**	**12[a]**	**75[ab]**	**30[ab]**	**826[ab]**	**8.4[a]**	**183[ab]**	**0.31**
Total TEQ (DL @ 0.5) (1,2)	pg/g	4.8	22	--	4	**4.4**	**12[a]**	**75[ab]**	**30[ab]**	**827[ab]**	**8.4[a]**	**183[ab]**	**0.34**

Notes:

J - Estimated concentration.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
(1) The TEQs of various dioxin and furan congeners were calculated using the toxicity equivalence factors as defined by the World Health Organization (Van den Berg et al., 2006), as outlined below.

Dioxin and Furan Congener	**TEQ**
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	0.0003
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	0.0003
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	0.01
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	0.01
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	0.01
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	0.1
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	0.1
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	0.1
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	0.1
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	0.1
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	0.1
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	0.03
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	1
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	0.1
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	0.3
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	0.1
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	1

(2) Dioxin and furan congeners that were below the detection limit were conservatively assumed as half of the method detection limit (MDL) (ND = 0.5MDL) for the calculation of the the dioxins and furans TEQ.

Table 4.23

Summary of Analytical Results - Dioxin/ Furans
OU1 Soil/Fill Samples
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:						**on-site (EU17)**	**on-site (EU17)**	**on-site (EU18)**	**on-site (EU18)**	**on-site (EU18)**	**on-site (EU18)**	**on-site (EU18)**	**on-site (EU19)**
Sample Location:						**TP-9**	**TP-10**	**SS-26**	**SS-27**	**SS-28**	**SS-33**	**SS-34**	**BH94-17**
Sample ID:						**S-38443-110917-BW-038**	**S-38443-110917-BW-036**	**SS-38443-102618-JC-026**	**SS-38443-102618-JC-027**	**SS-38443-102618-JC-028**	**SS-38443-102618-JC-033**	**SS-38443-102618-JC-034**	**S-38443-122017-JC-016**
Sample Date:						**11/9/2017**	**11/9/2017**	**10/26/2018**	**10/26/2018**	**10/26/2018**	**10/26/2018**	**10/26/2018**	**12/20/2017**
Sample Depth:						**2-4 ft BGS**	**4-6 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.17-2.17 ft BGS**	**0-2 ft BGS**	**13-14.8 ft BGS**
Parameters	**Units**	**RSLs**		**Detects:**	**Max Detect:**								
		Residential	**Industrial**										
Dioxin/Furans		a	b										
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	--	--	34	2300	7.9 U	**56**	38 U	7.7 UJ	14 UJ	11 U	27 UJ	**16**
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	--	--	49	9400	**35**	**340**	**120**	**53 J**	**41 J**	**6200 J**	**90 J**	**230**
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	42	1800	**11**	**250**	**57**	2.3 U	8.3 U	7.8 U	9.6 UJ	**7.7**
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	47	1600	**9.4**	**110**	**48**	**7.3**	**7.6**	**62**	**11 J**	**25**
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	32	240	**0.80 J**	**12**	0.63 U	0.31 U	**1.8 J**	0.32 U	1.6 UJ	**0.52 J**
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	41	960	**2.3 J**	**170**	**7.5 J**	0.22 U	**4.9 J**	**1.2 J**	0.93 UJ	**1.7 J**
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	33	48	**0.38 J**	**8.9**	**11**	0.055 U	0.13 U	**0.81 J**	1.8 UJ	0.064 U
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	41	330	**1.1 J**	**53 J**	**5.6 J**	0.23 U	**1.8 J**	**2.6 J**	0.83 UJ	**1.0 J**
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	43	810	**2.0 J**	**17 J**	**17 J**	0.061 U	**0.99 J**	**1.9 J**	1.8 UJ	**1.1 J**
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	2	0.88	0.12 U	0.98 U	0.65 U	0.31 U	0.47 U	0.24 U	1.2 UJ	0.11 U
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	41	510	**1.1 J**	**25**	**18 J**	0.053 U	**0.98 J**	**2.6 J**	1.6 UJ	**1.0 J**
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	36	210	**0.87 J**	**36**	**3.1 J**	0.12 U	0.26 U	0.14 U	0.36 UJ	**1.9 J**
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	32	430	1.2 U	**10 J**	**10 J**	0.15 U	0.12 U	0.18 U	0.92 UJ	1.5 U
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	38	330	**0.90 J**	**75**	**4.2 J**	0.22 U	**1.9 J**	0.21 U	1.0 UJ	**0.64 J**
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	42	440	**1.2 J**	**89**	**3.9 J**	0.11 U	**2.9 J**	0.14 U	**1.3 J**	**2.1 J**
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	--	--	43	710	**1.5 J**	**57**	**1.8**	0.29 U	**1.3**	**1.0 J**	0.95 UJ	**8.5**
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	30	180	**0.10 J**	**4.0**	0.62 U	0.39 U	0.42 U	0.38 U	1.0 UJ	**0.24 J**
Total heptachlorodibenzofuran (HpCDF)	pg/g	--	--	49	2700	**23 J**	**320 J**	**94 J**	**4.0 J**	**15 J**	**15 J**	**9.6 J**	**21 J**
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	48	3800	**21 J**	**220 J**	**82 J**	**13 J**	**14 J**	**130 J**	**22 J**	**46 J**
Total hexachlorodibenzofuran (HxCDF)	pg/g	--	--	49	3200	**19 J**	**620 J**	**47 J**	**1.4 J**	**14 J**	**14 J**	**4.2 J**	**17 J**
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	47	8700	**14 J**	**260 J**	**94 J**	**2.9 J**	**6.6 J**	**22 J**	1.8 UJ	**10 J**
Total pentachlorodibenzofuran (PeCDF)	pg/g	--	--	48	4800	**27 J**	**1000 J**	**43 J**	0.12 U	**20 J**	**18 J**	**8.0 J**	**26 J**
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	45	270000	**430 J**	**230 J**	**58 J**	**0.53 J**	**1.4 J**	**3.7 J**	0.92 UJ	**230 J**
Total tetrachlorodibenzofuran (TCDF)	pg/g	--	--	48	8300	**49 J**	**1900 J**	**130 J**	0.29 U	**17 J**	**33 J**	**5.4 J**	**71 J**
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	44	7900	**6.5 J**	**230 J**	**10 J**	0.39 U	0.42 U	**2.1 J**	1.0 UJ	**2.9 J**
Total TEQ (DL @ 0) (1)	pg/g	4.8	22	--	4	**1.6**	**86[ab]**	**19[a]**	**0.089**	**2.2**	**3.5**	**0.53**	**2.7**
Total TEQ (DL @ 0.5) (1,2)	pg/g	4.8	22	--	4	**2.2**	**86[ab]**	**19[a]**	**0.46**	**2.5**	**3.9**	**2.1**	**3.5**

Notes:

J - Estimated concentration.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
(1) The TEQs of various dioxin and furan congeners were calculated using the toxicity equivalence factors as defined by the World Health Organization (Van den Berg et al., 2006), as outlined below.

Dioxin and Furan Congener	**TEQ**
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	0.0003
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	0.0003
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	0.01
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	0.01
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	0.01
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	0.1
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	0.1
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	0.1
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	0.1
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	0.1
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	0.1
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	0.03
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	1
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	0.1
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	0.3
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	0.1
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	1

(2) Dioxin and furan congeners that were below the detection limit were conservatively assumed as half of the method detection limit (MDL) (ND = 0.5MDL) for the calculation of the the dioxins and furans TEQ.

Table 4.23

Summary of Analytical Results - Dioxin/ Furans
OU1 Soil/Fill Samples
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:						**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**
Sample Location:						**BH95-17**	**BH96-18**	**SS-35**	**TP-11**	**TP-12**	**TP-12**	**TP-14**	**TP-16**
Sample ID:						**S-38443-121917-JC-015**	**S-38443-010318-JC-025**	**S-38443-103017-BW-001**	**S-38443-103117-BW-006**	**S-38443-110117-BW-009**	**S-38443-110117-BW-010**	**S-38443-103117-BW-004**	**S-38443-103117-BW-008**
Sample Date:						**12/19/2017**	**1/3/2018**	**10/30/2017**	**10/31/2017**	**11/1/2017**	**11/1/2017**	**10/31/2017**	**10/31/2017**
Sample Depth:						**5-7 ft BGS**	**13-15 ft BGS**	**0-2 ft BGS**	**8-10 ft BGS**	**8-10 ft BGS**	**8-10 ft BGS**	**8-10 ft BGS**	**4-6 ft BGS**
											Duplicate		
Parameters	**Units**	**RSLs**		**Detects:**	**Max Detect:**								
		Residential	**Industrial**										
Dioxin/Furans		a	b										
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	--	--	34	2300	**12**	**4.9 J**	**14**	**150**	9.2 U	11 U	7.4 U	**18**
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	--	--	49	9400	**440**	**46**	**180**	**4500**	**350**	**550**	**71**	**220**
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	42	1800	**6.5**	**5.2 J**	**8.4**	**130**	**8.2 J**	**9.0 J**	**4.8 J**	**7.0**
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	47	1600	**20**	**7.5**	**19**	**390**	**31**	**53**	**9.9**	**19**
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	32	240	**0.89 J**	0.20 U	0.13 U	**4.5 J**	0.55 U	**1.3 J**	**0.55 J**	**0.49 J**
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	41	960	**3.2 J**	**1.9 J**	**1.3 J**	**17 J**	**5.8 J**	**6.7 J**	**2.9 J**	**1.9 J**
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	33	48	0.070 U	**0.18 J**	**0.55 J**	0.23 U	**1.2 J**	**1.9 J**	**0.41 J**	**0.34 J**
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	41	330	**1.0 J**	**0.83 J**	**1.7 J**	**14 J**	**2.2 J**	**2.5 J**	**1.6 J**	**4.2 J**
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	43	810	0.069 U	**1.3 J**	**1.4 J**	**16 J**	**4.7 J**	**4.8 J**	**0.78 J**	**1.2 J**
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	2	0.88	0.29 U	0.24 U	0.20 U	1.7 U	0.31 U	0.31 U	0.094 U	0.049 U
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	41	510	0.065 U	**0.91 J**	**1.3 J**	**9.8 J**	**3.6 J**	**5.3 J**	**1.0 J**	**0.88 J**
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	36	210	**0.58 J**	**0.43 J**	**0.28 J**	**2.5 J**	**0.66 J**	**0.75 J**	**1.1 J**	0.064 U
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	32	430	1.3 U	**0.41 J**	**0.79 J**	**5.5 J**	**6.5 J**	**6.0 J**	**1.3 J**	**0.65 J**
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	38	330	**0.91 J**	**0.85 J**	**1.1 J**	**7.5 J**	**1.2 J**	**1.2 J**	**0.82 J**	**1.3 J**
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	42	440	**1.1 J**	**1.2 J**	**0.90 J**	**5.8 J**	**1.9 J**	**2.0 J**	**2.6 J**	**1.3 J**
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	--	--	43	710	**1.7 J**	**0.79 J**	**0.89 J**	**16**	**3.5**	**3.7**	**2.1 J**	**1.3**
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	30	180	**0.48 J**	**0.14 J**	**0.17 J**	**0.74 J**	0.21 U	0.19 U	**0.17 J**	**0.27 J**
Total heptachlorodibenzofuran (HpCDF)	pg/g	--	--	49	2700	**20 J**	**12 J**	**20 J**	**350 J**	**20 J**	**24 J**	**11 J**	**23 J**
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	48	3800	**43 J**	**15 J**	**40 J**	**730 J**	**66 J**	**110 J**	**19 J**	**35 J**
Total hexachlorodibenzofuran (HxCDF)	pg/g	--	--	49	3200	**21 J**	**9.5 J**	**33 J**	**200 J**	**24 J**	**27 J**	**21 J**	**57 J**
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	47	8700	**8.8 J**	**9.1 J**	**12 J**	**120 J**	**40 J**	**55 J**	**9.7 J**	**11 J**
Total pentachlorodibenzofuran (PeCDF)	pg/g	--	--	48	4800	**31 J**	**10 J**	**54 J**	**340 J**	**20 J**	**20 J**	**43 J**	**140 J**
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	45	270000	**630 J**	**74 J**	**24 J**	**450 J**	**1700 J**	**610 J**	**250 J**	**16 J**
Total tetrachlorodibenzofuran (TCDF)	pg/g	--	--	48	8300	**47 J**	**16 J**	**59 J**	**650 J**	**37 J**	**43 J**	**54 J**	**130 J**
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	44	7900	**3.3 J**	**1.5 J**	**2.0 J**	**28 J**	**6.1 J**	**7.2 J**	**5.6 J**	**3.6 J**
Total TEQ (DL @ 0) (1)	pg/g	4.8	22	--	4	**1.9**	**1.7**	**2.4**	**23[ab]**	**9.4[a]**	**10[a]**	**3.4**	**2.8**
Total TEQ (DL @ 0.5) (1,2)	pg/g	4.8	22	--	4	**2.6**	**1.8**	**2.4**	**23[ab]**	**9.5[a]**	**10[a]**	**3.4**	**2.8**

Notes:

J - Estimated concentration.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
(1) The TEQs of various dioxin and furan congeners were calculated using the toxicity equivalence factors as defined by the World Health Organization (Van den Berg et al., 2006), as outlined below.

Dioxin and Furan Congener	**TEQ**
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	0.0003
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	0.0003
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	0.01
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	0.01
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	0.01
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	0.1
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	0.1
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	0.1
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	0.1
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	0.1
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	0.1
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	0.03
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	1
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	0.1
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	0.3
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	0.1
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	1

(2) Dioxin and furan congeners that were below the detection limit were conservatively assumed as half of the method detection limit (MDL) (ND = 0.5MDL) for the calculation of the the dioxins and furans TEQ.

Table 4.23

Summary of Analytical Results - Dioxin/ Furans
OU1 Soil/Fill Samples
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:						**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**
Sample Location:						**TT-31**	**TT-32**	**TT-33**	**TT-34**	**TT-35**	**TT-36**	**TT-37**	**TT-39**
Sample ID:						**S-38443-110717-BW-028**	**S-38443-110717-BW-030**	**S-38443-110317-BW-020**	**S-38443-110717-BW-027**	**S-38443-110617-BW-025**	**S-38443-110617-BW-024**	**S-38443-110617-BW-023**	**S-38443-110217-BW-018**
Sample Date:						**11/7/2017**	**11/7/2017**	**11/3/2017**	**11/7/2017**	**11/6/2017**	**11/6/2017**	**11/6/2017**	**11/2/2017**
Sample Depth:						**14-15 ft BGS**	**12-14 ft BGS**	**12-14 ft BGS**	**8-10 ft BGS**	**12-14 ft BGS**	**2-4 ft BGS**	**8-10 ft BGS**	**8-10 ft BGS**
Parameters	**Units**	**RSLs**		**Detects:**	**Max Detect:**								
		Residential	**Industrial**										
Dioxin/Furans		a	b										
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	--	--	34	2300	**2300**	**250**	**21**	**280**	**200**	26 U	**13**	2.5 U
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	--	--	49	9400	**2200**	**1400**	**790 J**	**9400**	**3200**	**440**	**92**	**28**
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	42	1800	**1800**	**170**	**14**	**540**	**400**	15 U	7.8 U	**4.7 J**
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	47	1600	**700**	**240**	**140 J**	**1600**	**480**	**140**	**17**	**4.8 J**
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	32	240	**240**	23 U	**0.87 J**	**64**	**19**	10 U	1.2 U	**0.61 J**
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	41	960	**960**	**74**	**3.9 J**	**440**	**250**	6.9 U	1.7 U	**4.2 J**
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	33	48	51 U	9.1 U	**1.3 J**	51 U	**22**	11 U	0.20 U	**0.41 J**
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	41	330	**330**	29 U	**1.5 J**	**150**	**74**	5.6 U	1.2 U	**1.9 J**
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	43	810	**100**	**16 J**	**18**	**110**	**54**	**42 J**	**1.1 J**	**1.5 J**
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	2	0.88	25 U	4.3 U	0.078 U	12 U	3.6 U	5.1 U	0.17 U	**0.21 J**
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	41	510	**140**	20 U	**8.1**	**150**	**65**	**63**	1.2 U	**1.8 J**
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	36	210	**210**	**12 J**	**0.76 J**	**210**	**56**	**8.6 J**	**0.39 J**	**0.80 J**
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	32	430	**110 J**	2.3 U	**1.3 J**	4.2 U	**25**	**50 J**	**0.71 J**	**1.2 J**
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	38	330	**330**	29 U	**1.7 J**	**100**	**91**	8.2 U	1.0 U	**2.1 J**
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	42	440	**440**	**26 J**	**1.6 J**	**320**	**130**	**8.6 J**	**0.69 J**	**2.2 J**
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	--	--	43	710	**280**	**10 J**	**1.3 J**	**710**	**80**	**25 J**	**1.3 J**	**0.61 J**
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	30	180	**21 J**	3.0 U	**0.27 J**	**14**	**6.8**	2.0 U	0.33 U	**0.23 J**
Total heptachlorodibenzofuran (HpCDF)	pg/g	--	--	49	2700	**2700 J**	**280 J**	**34 J**	**1000 J**	**580 J**	**36 J**	**13 J**	**8.1 J**
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	48	3800	**1400 J**	**470 J**	**250 J**	**3600 J**	**910 J**	**340 J**	**29 J**	**9.5 J**
Total hexachlorodibenzofuran (HxCDF)	pg/g	--	--	49	3200	**3200 J**	**250 J**	**21 J**	**1700 J**	**860 J**	**51 J**	**12 J**	**19 J**
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	47	8700	**1600 J**	**170 J**	**130 J**	**1300 J**	**650 J**	**720 J**	**9.1 J**	**14 J**
Total pentachlorodibenzofuran (PeCDF)	pg/g	--	--	48	4800	**4800 J**	**240 J**	**16 J**	**2800 J**	**1500 J**	**68 J**	**16 J**	**24 J**
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	45	270000	**13000 J**	**5200 J**	**68 J**	**270000 J**	**1300 J**	**670 J**	**37 J**	**21 J**
Total tetrachlorodibenzofuran (TCDF)	pg/g	--	--	48	8300	**8300 J**	**280 J**	**26 J**	**7100 J**	**2600 J**	**120 J**	**19 J**	**22 J**
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	44	7900	**1400 J**	**16 J**	**6.9 J**	**430 J**	**400 J**	**140 J**	**3.1 J**	**5.8 J**
Total TEQ (DL @ 0) (1)	pg/g	4.8	22	--	4	**512[ab]**	**23[ab]**	**7.4[a]**	**307[ab]**	**146[ab]**	**67.4[ab]**	**1.4**	**3.5**
Total TEQ (DL @ 0.5) (1,2)	pg/g	4.8	22	--	4	**512[ab]**	**26[ab]**	**7.4[a]**	**310[ab]**	**146[ab]**	**68.6[ab]**	**1.6**	**3.5**

Notes:

J - Estimated concentration.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
(1) The TEQs of various dioxin and furan congeners were calculated using the toxicity equivalence factors as defined by the World Health Organization (Van den Berg et al., 2006), as outlined below.

Dioxin and Furan Congener	**TEQ**
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	0.0003
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	0.0003
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	0.01
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	0.01
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	0.01
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	0.1
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	0.1
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	0.1
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	0.1
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	0.1
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	0.1
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	0.03
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	1
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	0.1
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	0.3
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	0.1
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	1

(2) Dioxin and furan congeners that were below the detection limit were conservatively assumed as half of the method detection limit (MDL) (ND = 0.5MDL) for the calculation of the the dioxins and furans TEQ.

Table 4.24

Summary of Analytical Results - Lead
OU1 Soil/ Fill Samples
South Dayton Dump and Landfill Site
Moraine, Ohio

						Metals			
					Parameter:	**Lead**	**Lead - coarse fraction**	**Lead - fine fraction**	**Lead - total (calculated by fine/coarse fraction)**
EU Designation	**Sample Location**	**Sample ID**	**Sample Date**	**Sample Depth**	**Unit:**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**
					Detects:	**321**	**29**	**30**	**29**
					Max Detect:	**26000**	**47000**	**28000**	**43000**
on-site (EU01)	BH102-17	S-38443-120717-JC-004	12/7/2017	4.5-6.5 ft BGS		39	-	-	-
on-site (EU01)	BH103-17	S-38443-120717-JC-002	12/7/2017	3-5 ft BGS		45	-	-	-
on-site (EU01)	BH104-17	S-38443-120717-JC-003	12/7/2017	3-5 ft BGS		61	-	-	-
on-site (EU01)	SS-37	SS-38443-112018-JC-037	11/20/2018	0-2 ft BGS		29	-	-	-
on-site (EU01)	SS-38	SS-38443-112018-JC-038	11/20/2018	0-2 ft BGS		21	-	-	-
on-site (EU01)	SS-39	S-38443-110117-BW-013	11/1/2017	0-2 ft BGS		51 J	-	-	-
on-site (EU01)	SS-39	S-38443-110117-BW-014	11/1/2017	0-2 ft BGS	Duplicate	46 J	-	-	-
on-site (EU01)	SS-40	SS-38443-112018-JC-040	11/20/2018	0-2 ft BGS		26	-	-	-
on-site (EU01)	SS-42	SS-38443-112718-AS-042	11/27/2018	0-0.67 ft BGS		25 J	24	48	26
on-site (EU01)	SS-43	SS-38443-112718-AS-043	11/27/2018	0.17-1 ft BGS		30 J	-	-	-
on-site (EU01)	SS-44	SS-38443-112718-AS-044	11/27/2018	0.08-1 ft BGS		39 J	62	100	70
on-site (EU01)	SS-45	SS-38443-112718-AS-045	11/27/2018	0.17-1.5 ft BGS		19 J	-	-	-
on-site (EU01)	TT-14	S-38443-092508-KMV-015	9/25/2008	3 ft BGS		40.8	-	-	-
on-site (EU01)	TT-16	S-38443-093008-KMV-033	9/30/2008	2 ft BGS		18.4 J	-	-	-
on-site (EU02)	BH98-18	S-38443-121418-JC-150	12/14/2018	2-5.5 ft BGS		20	-	-	-
on-site (EU02)	BH99-18	S-38443-121418-JC-151	12/14/2018	6-9.5 ft BGS		14	-	-	-
on-site (EU02)	BH100-18	S-38443-121418-JC-152	12/14/2018	4-7.5 ft BGS		46	-	-	-
on-site (EU02)	SS-14	SS-38443-112018-JC-014	11/20/2018	0-2 ft BGS		19	-	-	-
on-site (EU02)	SS-15	SS-38443-112018-JC-015	11/20/2018	0-2 ft BGS		30	17 J	25	18
on-site (EU02)	SS-16	SS-38443-112018-JC-016	11/20/2018	0-2 ft BGS		15	-	-	-
on-site (EU02)	SS-17	SS-38443-112018-JC-017	11/20/2018	0-2 ft BGS		16	-	-	-
on-site (EU02)	SS-18	SS-38443-112018-JC-018	11/20/2018	0-2 ft BGS		24	-	-	-
on-site (EU03)	BH152-18	S-38443-052918-JC-099	5/29/2018	9-11 ft BGS		550	-	-	-
on-site (EU03)	BH153-18	S-38443-052918-JC-092	5/29/2018	13-15 ft BGS		68	-	-	-
on-site (EU03)	BH154-18	S-38443-052918-JC-094	5/29/2018	13-15 ft BGS		34	-	-	-
on-site (EU03)	BH155-18	S-38443-052918-JC-096	5/29/2018	13-15 ft BGS		12	-	-	-
on-site (EU03)	BH155-18	S-38443-052918-JC-097	5/29/2018	13-15 ft BGS	Duplicate	16	-	-	-
on-site (EU03)	BH156-18	S-38443-051618-JC-074	5/16/2018	13-15 ft BGS		34 J	-	-	-
on-site (EU03)	BH157-18	S-38443-051718-JC-083	5/17/2018	12-14 ft BGS		6.8	-	-	-
on-site (EU03)	SS-146	S-38443-052918-JC-098	5/29/2018	0-2 ft BGS		1000	100 J	210	110
on-site (EU03)	SS-147	S-38443-052918-JC-091	5/29/2018	0-2 ft BGS		14	-	-	-
on-site (EU03)	SS-149	S-38443-052918-JC-095	5/29/2018	0-2 ft BGS		26	-	-	-
on-site (EU03)	SS-150	S-38443-052918-JC-093	5/29/2018	0-2 ft BGS		49	-	-	-
on-site (EU03)	SS-151	S-38443-051618-JC-073	5/16/2018	0-2 ft BGS		23 J	-	-	-
on-site (EU03)	SS-153	S-38443-051718-JC-075	5/17/2018	0-2 ft BGS		9.1	-	-	-
on-site (EU03)	TT-18	S-38443-100108-KMV-036	10/1/2008	5 ft BGS		6.4 J	-	-	-
on-site (EU03)	TT-18	S-38443-100108-KMV-037	10/1/2008	12 ft BGS		9.1 J	-	-	-
on-site (EU04)	BH146-18	S-38443-051718-JC-082	5/17/2018	13-15 ft BGS		2.1	-	-	-
on-site (EU04)	BH147-18	S-38443-051718-JC-077	5/17/2018	12-14 ft BGS		4.2	-	-	-
on-site (EU04)	BH148-18	S-38443-051718-JC-079	5/17/2018	6-8 ft BGS		19	-	-	-
on-site (EU04)	BH149-18	S-38443-052918-JC-088	5/29/2018	10-12 ft BGS		12	-	-	-

Table 4.24

Summary of Analytical Results - Lead
OU1 Soil/ Fill Samples
South Dayton Dump and Landfill Site
Moraine, Ohio

						Metals			
					Parameter:	**Lead**	**Lead - coarse fraction**	**Lead - fine fraction**	**Lead - total (calculated by fine/coarse fraction)**
EU Designation	**Sample Location**	**Sample ID**	**Sample Date**	**Sample Depth**	**Unit:**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**
					Detects:	**321**	**29**	**30**	**29**
					Max Detect:	**26000**	**47000**	**28000**	**43000**
on-site (EU04)	BH150-18	S-38443-052918-JC-086	5/29/2018	13-15 ft BGS		30	-	-	-
on-site (EU04)	BH151-18	S-38443-052918-JC-090	5/29/2018	10-12 ft BGS		40	-	-	-
on-site (EU04)	SS-138	S-38443-051718-JC-080	5/17/2018	0-2 ft BGS		25	-	-	-
on-site (EU04)	SS-138	S-38443-051718-JC-081	5/17/2018	0-2 ft BGS	Duplicate	35	-	-	-
on-site (EU04)	SS-139	S-38443-051718-JC-076	5/17/2018	0-2 ft BGS		20	-	-	-
on-site (EU04)	SS-140	S-38443-051718-JC-078	5/17/2018	0.17-2.17 ft BGS		25	-	-	-
on-site (EU04)	SS-142	S-38443-052918-JC-085	5/29/2018	0-2 ft BGS		57	33 J	50	36
on-site (EU04)	SS-144	S-38443-052918-JC-087	5/29/2018	0.17-2.17 ft BGS		13	-	-	-
on-site (EU04)	SS-145	S-38443-052918-JC-089	5/29/2018	0-2 ft BGS		130	-	-	-
on-site (EU04)	TT-17	S-38443-093008-KMV-034	9/30/2008	5 ft BGS		14.9 J	-	-	-
on-site (EU04)	TT-17	S-38443-093008-KMV-035	9/30/2008	14 ft BGS		7.5 J	-	-	-
on-site (EU05)	BH133-18	S-38443-053118-JC-117	5/31/2018	7-9 ft BGS		36	-	-	-
on-site (EU05)	SS-101	SS-38443-110218-JC-101	11/2/2018	0.25-2.25 ft BGS		27 J	-	-	-
on-site (EU05)	SS-123	S-38443-053118-JC-116	5/31/2018	0.3-2.3 ft BGS		21	-	310	-
on-site (EU06)	BH130-18	S-38443-053018-JC-112	5/30/2018	9.5-11.5 ft BGS		21	-	-	-
on-site (EU06)	BH132-18	S-38443-053118-JC-119	5/31/2018	6.5-8.5 ft BGS		15 J	-	-	-
on-site (EU06)	SS-116	S-38443-053018-JC-111	5/30/2018	0-2 ft BGS		1.7	-	-	-
on-site (EU06)	SS-120	S-38443-053118-JC-118	5/31/2018	0-2 ft BGS		4.7	-	-	-
on-site (EU07)	BH125-18	S-38443-053018-JC-106	5/30/2018	7-9 ft BGS		140	-	-	-
on-site (EU07)	BH126-18	S-38443-053018-JC-101	5/30/2018	10-12 ft BGS		270	-	-	-
on-site (EU07)	BH127-18	S-38443-053018-JC-110	5/30/2018	7-9 ft BGS		17	-	-	-
on-site (EU07)	BH128-18	S-38443-053018-JC-108	5/30/2018	13-15 ft BGS		21	-	-	-
on-site (EU07)	BH129-18	S-38443-053018-JC-103	5/30/2018	13-15 ft BGS		35	-	-	-
on-site (EU07)	SS-102	S-38443-053018-JC-104	5/30/2018	0-2 ft BGS		38	-	-	-
on-site (EU07)	SS-102	S-38443-053018-JC-105	5/30/2018	0-2 ft BGS	Duplicate	51	-	-	-
on-site (EU07)	SS-103	S-38443-053018-JC-102	5/30/2018	0-2 ft BGS		45	41 J	31	37
on-site (EU07)	SS-104	S-38443-053018-JC-100	5/30/2018	0-2 ft BGS		53	-	-	-
on-site (EU07)	SS-109	S-38443-053018-JC-109	5/30/2018	0-2 ft BGS		22	-	-	-
on-site (EU07)	SS-112	S-38443-053018-JC-107	5/30/2018	0-2 ft BGS		13	-	-	-
on-site (EU08)	BH122-18	S-38443-053118-JC-115	5/31/2018	6-8 ft BGS		130	-	-	-
on-site (EU08)	SS-98	S-38443-053118-JC-114	5/31/2018	0.17-2.17 ft BGS		120	-	-	-
on-site (EU08)	SS-99	SS-38443-110218-JC-099	11/2/2018	0.25-2.25 ft BGS		19 J	-	-	-
on-site (EU08)	SS-100	SS-38443-110218-JC-100	11/2/2018	0.17-2.17 ft BGS		91 J	23 J	42	27
on-site (EU08)	SS-100	SS-38443-110218-JC-121	11/2/2018	0.17-2.17 ft BGS	Duplicate	17 J	-	-	-
on-site (EU09)	BH120-18	S-38443-011918-JC-055	1/19/2018	8-10 ft BGS		23	-	-	-
on-site (EU09)	BH121-18	S-38443-011918-JC-054	1/19/2018	8-10 ft BGS		680	-	-	-
on-site (EU09)	SS-86	S-38443-110217-BW-015	11/2/2017	0-2 ft BGS		58	-	-	-
on-site (EU09)	SS-87	SS-38443-103118-JC-087	10/31/2018	0.5-2.5 ft BGS		28	-	-	-
on-site (EU09)	SS-87	SS-38443-103118-JC-119	10/31/2018	0.5-2.5 ft BGS	Duplicate	36	-	-	-
on-site (EU09)	SS-90	SS-38443-103118-JC-090	10/31/2018	0.17-2.17 ft BGS		210	-	-	-
on-site (EU09)	SS-91	SS-38443-103118-JC-091	10/31/2018	0.5-2.5 ft BGS		42	-	-	-

Table 4.24

Summary of Analytical Results - Lead
OU1 Soil/ Fill Samples
South Dayton Dump and Landfill Site
Moraine, Ohio

						Metals			
					Parameter:	**Lead**	**Lead - coarse fraction**	**Lead - fine fraction**	**Lead - total (calculated by fine/coarse fraction)**
EU Designation	**Sample Location**	**Sample ID**	**Sample Date**	**Sample Depth**	**Unit:**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**
					Detects:	**321**	**29**	**30**	**29**
					Max Detect:	**26000**	**47000**	**28000**	**43000**
on-site (EU09)	SS-92	SS-38443-103118-JC-092	10/31/2018	0-2 ft BGS		310	-	-	-
on-site (EU09)	SS-93	SS-38443-103118-JC-093	10/31/2018	0-2 ft BGS		150	-	-	-
on-site (EU09)	TP-17	S-38443-110217-BW-016	11/2/2017	8-10 ft BGS		29	-	-	-
on-site (EU09)	TT-13	S-38443-092508-KMV-017	9/25/2008	7 ft BGS		12.5	-	-	-
on-site (EU09)	VAS-21B	S-38443-060209-DR-001	6/2/2009	3-5 ft BGS		124 J	-	-	-
on-site (EU10)	BH97-17	S-38443-120817-JC-005	12/8/2017	13-15 ft BGS		23	-	-	-
on-site (EU10)	BH97-17	S-38443-120817-JC-006	12/8/2017	13-15 ft BGS	Duplicate	29	-	-	-
on-site (EU10)	BH117-18	S-38443-011818-JC-050	1/18/2018	10-12 ft BGS		15	-	-	-
on-site (EU10)	BH118-18	S-38443-011818-JC-051	1/18/2018	3-5 ft BGS		27	-	-	-
on-site (EU10)	BH118-18	S-38443-011818-JC-052	1/18/2018	3-5 ft BGS	Duplicate	45	-	-	-
on-site (EU10)	BH119-18	S-38443-011818-JC-053	1/18/2018	9-11 ft BGS		38	-	-	-
on-site (EU10)	SS-32	SS-38443-103118-JC-032	10/31/2018	0.25-2.25 ft BGS		4.5	-	-	-
on-site (EU10)	SS-78	SS-38443-103118-JC-078	10/31/2018	0-2 ft BGS		60	-	-	-
on-site (EU10)	SS-79	SS-38443-103118-JC-079	10/31/2018	0-2 ft BGS		140	52 J	99	64
on-site (EU10)	SS-80	SS-38443-103118-JC-080	10/31/2018	0-2 ft BGS		100	-	-	-
on-site (EU10)	SS-81	SS-38443-103118-JC-081	10/31/2018	0.33-2.33 ft BGS		54	44 J	74	48
on-site (EU10)	SS-82	SS-38443-103118-JC-082	10/31/2018	0-2 ft BGS		40	-	-	-
on-site (EU10)	SS-83	SS-38443-103118-JC-083	10/31/2018	0-2 ft BGS		70	-	-	-
on-site (EU10)	SS-84	SS-38443-103118-JC-084	10/31/2018	0-2 ft BGS		35	-	-	-
on-site (EU11)	BH114-18	S-38443-011118-JC-040	1/11/2018	3-5 ft BGS		27	-	-	-
on-site (EU11)	BH114-18	S-38443-011118-JC-041	1/11/2018	3-5 ft BGS	Duplicate	18	-	-	-
on-site (EU11)	BH115-18	S-38443-011118-JC-039	1/11/2018	3-5 ft BGS		34	-	-	-
on-site (EU11)	BH116-18	S-38443-011118-JC-038	1/11/2018	11-13 ft BGS		120	-	-	-
on-site (EU11)	BH175-17	S-38443-121817-JC-009	12/18/2017	15.5-17.5 ft BGS		14	-	-	-
on-site (EU11)	SS-25	S-38443-110117-BW-011	11/1/2017	0-2 ft BGS		140 J	-	-	-
on-site (EU11)	SS-70	SS-38443-103018-JC-070	10/30/2018	0-2 ft BGS		35 J	31	85	35
on-site (EU11)	SS-71	SS-38443-103018-JC-071	10/30/2018	0-2 ft BGS		17 J	-	-	-
on-site (EU11)	SS-72	SS-38443-103018-JC-072	10/30/2018	0.5-2.25 ft BGS		160	82	150	89
on-site (EU11)	SS-73	SS-38443-103018-JC-073	10/30/2018	0.17-2.17 ft BGS		19 J	-	-	-
on-site (EU11)	SS-74	SS-38443-103018-JC-074	10/30/2018	0-2 ft BGS		41 J	-	-	-
on-site (EU11)	SS-75	SS-38443-103018-JC-075	10/30/2018	0.5-2.5 ft BGS		71	-	-	-
on-site (EU11)	SS-76	SS-38443-103018-JC-076	10/30/2018	0-2 ft BGS		51 J	-	-	-
on-site (EU11)	TP-13	S-38443-110117-BW-012	11/1/2017	8-10 ft BGS		31 J	-	-	-
on-site (EU11)	TT-11	S-38443-100208-KMV-041	10/2/2008	5 ft BGS		15.8 J	-	-	-
on-site (EU11)	TT-11	S-38443-100208-KMV-042	10/2/2008	10 ft BGS		132 J	-	-	-
on-site (EU11)	TT-11	S-38443-100208-KMV-043	10/2/2008	21 ft BGS		2.5 J	-	-	-
on-site (EU11)	TT-12	S-38443-100208-KMV-038	10/2/2008	5 ft BGS		27.2 J	-	-	-
on-site (EU11)	TT-12	S-38443-100208-KMV-039	10/2/2008	10 ft BGS		16.5 J	-	-	-
on-site (EU11)	TT-12	S-38443-100208-KMV-040	10/2/2008	21 ft BGS		6.3 J	-	-	-
on-site (EU12)	BH111-18	S-38443-011118-JC-042	1/11/2018	7.5-9.5 ft BGS		180	-	-	-
on-site (EU12)	BH112-17	S-38443-121917-JC-014	12/19/2017	13-15 ft BGS		34	-	-	-

Table 4.24

Summary of Analytical Results - Lead
OU1 Soil/ Fill Samples
South Dayton Dump and Landfill Site
Moraine, Ohio

						Metals			
					Parameter:	**Lead**	**Lead - coarse fraction**	**Lead - fine fraction**	**Lead - total (calculated by fine/coarse fraction)**
EU Designation	**Sample Location**	**Sample ID**	**Sample Date**	**Sample Depth**	**Unit:**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**
					Detects:	**321**	**29**	**30**	**29**
					Max Detect:	**26000**	**47000**	**28000**	**43000**
on-site (EU12)	BH113-18	S-38443-010318-JC-026	1/3/2018	9-11 ft BGS		12	-	-	-
on-site (EU12)	SS-62	SS-38443-103018-JC-062	10/30/2018	0.17-2.17 ft BGS		110	-	-	-
on-site (EU12)	SS-63	SS-38443-103018-JC-063	10/30/2018	0.17-2.17 ft BGS		35 J	-	-	-
on-site (EU12)	SS-64	SS-38443-103018-JC-064	10/30/2018	0-2 ft BGS		31	-	-	-
on-site (EU12)	SS-65	SS-38443-103018-JC-065	10/30/2018	0.25-2.25 ft BGS		8.1 J	-	-	-
on-site (EU12)	SS-65	SS-38443-103018-JC-118	10/30/2018	0.25-2.25 ft BGS	Duplicate	34 J	-	-	-
on-site (EU12)	SS-66	SS-38443-103018-JC-066	10/30/2018	0.17-2.17 ft BGS		58 J	80	200	92
on-site (EU12)	SS-67	SS-38443-103018-JC-067	10/30/2018	0.17-2.17 ft BGS		42 J	-	-	-
on-site (EU12)	SS-68	SS-38443-103018-JC-068	10/30/2018	0.17-2.17 ft BGS		8.1 J	-	-	-
on-site (EU12)	SS-69	SS-38443-103018-JC-069	10/30/2018	0.33-2.33 ft BGS		8.0 J	-	-	-
on-site (EU12)	TT-10	S-38443-100308-KMV-044	10/3/2008	5 ft BGS		27.5	-	-	-
on-site (EU12)	TT-10	S-38443-100308-KMV-045	10/3/2008	10 ft BGS		45.2	-	-	-
on-site (EU12)	TT-10	S-38443-100308-KMV-046	10/3/2008	15 ft BGS		48.3	-	-	-
on-site (EU13)	BH107-18	S-38443-011618-JC-046	1/16/2018	12-14 ft BGS		100	-	-	-
on-site (EU13)	BH108-18	S-38443-011218-JC-043	1/12/2018	7-9 ft BGS		730	-	-	-
on-site (EU13)	BH109-18	S-38443-011618-JC-044	1/16/2018	7.5-9.5 ft BGS		380	-	-	-
on-site (EU13)	BH110-18	S-38443-011618-JC-045	1/16/2018	6.3-8.3 ft BGS		14	-	-	-
on-site (EU13)	BH159-17	S-38443-121817-JC-011	12/18/2017	19-21 ft BGS		110	-	-	-
on-site (EU13)	SS-54	SS-38443-103018-JC-054	10/30/2018	0.25-2.25 ft BGS		710 J	-	-	-
on-site (EU13)	SS-54	SS-38443-103018-JC-117	10/30/2018	0.25-2.25 ft BGS	Duplicate	26000 J	-	-	-
on-site (EU13)	SS-55	SS-38443-102918-JC-055	10/29/2018	0-2 ft BGS		28	-	-	-
on-site (EU13)	SS-55	SS-38443-102918-JC-115	10/29/2018	0-2 ft BGS	Duplicate	55	-	-	-
on-site (EU13)	SS-56	SS-38443-103018-JC-056	10/30/2018	0-2 ft BGS		1900 J	-	-	-
on-site (EU13)	SS-57	SS-38443-103018-JC-057	10/30/2018	0.25-2.25 ft BGS		38 J	-	-	-
on-site (EU13)	SS-58	S-38443-110317-BW-021	11/3/2017	0-2 ft BGS		2.9	-	-	-
on-site (EU13)	SS-59	SS-38443-103018-JC-059	10/30/2018	0-2 ft BGS		190 J	6300	5300	6300
on-site (EU13)	SS-60	SS-38443-103018-JC-060	10/30/2018	0.17-2.17 ft BGS		220 J	-	-	-
on-site (EU13)	SS-61	SS-38443-103018-JC-061	10/30/2018	0-2 ft BGS		3400 J	980	1500	1100
on-site (EU13)	TT-40	S-38443-110317-BW-022	11/3/2017	6-8 ft BGS		100	-	-	-
on-site (EU14)	BH105-18	S-38443-011718-JC-047	1/17/2018	8.5-10.5 ft BGS		110	-	-	-
on-site (EU14)	BH106-18	S-38443-011718-JC-048	1/17/2018	13-15 ft BGS		11	-	-	-
on-site (EU14)	SS-46	SS-38443-103018-JC-046	10/30/2018	0-2 ft BGS		340 J	-	-	-
on-site (EU14)	SS-47	SS-38443-110218-JC-047	11/2/2018	0-2 ft BGS		510 J	-	-	-
on-site (EU14)	SS-48	SS-38443-102918-JC-048	10/29/2018	0.25-2.25 ft BGS		4200	3600	3600	3600
on-site (EU14)	SS-49	SS-38443-102918-JC-049	10/29/2018	0-2 ft BGS		22	-	-	-
on-site (EU14)	SS-50	SS-38443-102918-JC-050	10/29/2018	0.17-2.17 ft BGS		700	47000	28000	43000
on-site (EU14)	SS-51	SS-38443-102918-JC-051	10/29/2018	0.25-2.25 ft BGS		1600	-	-	-
on-site (EU14)	SS-53	SS-38443-102918-JC-053	10/29/2018	0-2 ft BGS		3300	-	-	-
on-site (EU14)	TT-8	S-38443-100608-KMV-050	10/6/2008	4 ft BGS		234	-	-	-
on-site (EU14)	TT-8	S-38443-100608-KMV-050-D	10/6/2008	4 ft BGS	Duplicate	238	-	-	-
on-site (EU14)	TT-8	S-38443-100608-KMV-051	10/6/2008	15 ft BGS		4.6 J	-	-	-

Table 4.24

Summary of Analytical Results - Lead
OU1 Soil/ Fill Samples
South Dayton Dump and Landfill Site
Moraine, Ohio

						Metals			
					Parameter:	**Lead**	**Lead - coarse fraction**	**Lead - fine fraction**	**Lead - total (calculated by fine/coarse fraction)**
EU Designation	**Sample Location**	**Sample ID**	**Sample Date**	**Sample Depth**	**Unit:**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**
					Detects:	**321**	**29**	**30**	**29**
					Max Detect:	**26000**	**47000**	**28000**	**43000**
on-site (EU14)	TT-9	S-38443-100308-KMV-047	10/3/2008	7 ft BGS		1200	-	-	-
on-site (EU14)	TT-9	S-38443-100308-KMV-048	10/3/2008	17 ft BGS		15.0 J	-	-	-
on-site (EU14)	TT-9	S-38443-100308-KMV-049	10/3/2008	22 ft BGS		557	-	-	-
on-site (EU15)	BH143-18	S-38443-012318-JC-061	1/23/2018	10-12 ft BGS		91	-	-	-
on-site (EU15)	BH143-18	S-38443-012318-JC-062	1/23/2018	10-12 ft BGS	Duplicate	34	-	-	-
on-site (EU15)	BH144-18	S-38443-012218-JC-057	1/22/2018	14.5-16.5 ft BGS		190	-	-	-
on-site (EU15)	BH145-18	S-38443-012218-JC-059	1/22/2018	9-11 ft BGS		16	-	-	-
on-site (EU15)	MW-219	S-38443-120409-DR-001	12/4/2009	24-26 ft BGS		7.0 J	-	-	-
on-site (EU15)	SS-130	SS-38443-102918-JC-130	10/29/2018	0.25-2.25 ft BGS		170	-	-	-
on-site (EU15)	SS-130	SS-38443-102918-JC-114	10/29/2018	0.25-2.25 ft BGS	Duplicate	25	-	-	-
on-site (EU15)	SS-131	SS-38443-102918-JC-131	10/29/2018	0-2 ft BGS		20	18	26	19
on-site (EU15)	SS-132	S-38443-110817-BW-031	11/8/2017	0.7-2.7 ft BGS		2600 J	-	-	-
on-site (EU15)	SS-132	S-38443-110817-BW-032	11/8/2017	0.7-2.7 ft BGS	Duplicate	840 J	-	-	-
on-site (EU15)	SS-133	SS-38443-102918-JC-133	10/29/2018	0.5-2.5 ft BGS		510	-	-	-
on-site (EU15)	SS-134	SS-38443-102918-JC-134	10/29/2018	0.92-2.92 ft BGS		15	-	-	-
on-site (EU15)	SS-135	SS-38443-102918-JC-135	10/29/2018	0.25-2.25 ft BGS		21	-	-	-
on-site (EU15)	SS-136	SS-38443-102918-JC-136	10/29/2018	0-2 ft BGS		2200	2000	2700	2200
on-site (EU15)	SS-137	SS-38443-102918-JC-137	10/29/2018	0.17-2.17 ft BGS		490	-	-	-
on-site (EU15)	SS-141	SS-38443-102918-JC-141	10/29/2018	0-2 ft BGS		720	1600	2000	1700
on-site (EU15)	SS-143	SS-38443-102918-JC-143	10/29/2018	0-2 ft BGS		220	-	-	-
on-site (EU15)	TT-23	S-38443-100608-KMV-052	10/6/2008	7 ft BGS		17700	-	-	-
on-site (EU15)	TT-23	S-38443-100608-KMV-053	10/6/2008	18 ft BGS		4.3 J	-	-	-
on-site (EU15)	TT-43	S-38443-110817-BW-033	11/8/2017	6-8 ft BGS		2200	-	-	-
on-site (EU16)	BH08-09	S-38443-062009-DR-002	6/20/2009	3-5 ft BGS		9.4 J	-	-	-
on-site (EU16)	BH136-18	S-38443-010818-JC-032	1/8/2018	1-3 ft BGS		120	-	-	-
on-site (EU16)	BH136-18	S-38443-010818-JC-033	1/8/2018	1-3 ft BGS	Duplicate	180	-	-	-
on-site (EU16)	BH136-18	S-38443-010818-JC-034	1/8/2018	15-17 ft BGS		390	-	-	-
on-site (EU16)	BH137-18	S-38443-010818-JC-030	1/8/2018	13-15 ft BGS		1100	-	-	-
on-site (EU16)	BH137-18	S-38443-010818-JC-031	1/8/2018	26-28 ft BGS		1200	-	-	-
on-site (EU16)	BH138-18	S-38443-010918-JC-035	1/9/2018	8-10 ft BGS		75	-	-	-
on-site (EU16)	BH139-18	S-38443-010418-JC-028	1/4/2018	13-15 ft BGS		16000	-	-	-
on-site (EU16)	BH140-18	S-38443-010818-JC-029	1/8/2018	13-15 ft BGS		1700	-	-	-
on-site (EU16)	BH141-18	S-38443-010918-JC-036	1/9/2018	6-8 ft BGS		590	-	-	-
on-site (EU16)	BH142-18	S-38443-010418-JC-027	1/4/2018	8-10 ft BGS		350	-	-	-
on-site (EU16)	TP-5	S-38443-100608-KMV-055	10/6/2008	12 ft BGS		5020	-	-	-
on-site (EU16)	TP-5	S-38443-100608-KMV-056	10/6/2008	17 ft BGS		59.1	-	-	-
on-site (EU16)	TP-6	S-38443-100608-KMV-057	10/6/2008	11 ft BGS		546	-	-	-
on-site (EU16)	TP-6	S-38443-100608-KMV-058	10/6/2008	20 ft BGS		25.1	-	-	-
on-site (EU16)	TT-7	S-38443-100708-KMV-061	10/7/2008	6 ft BGS		2380	-	-	-
on-site (EU16)	TT-7	S-38443-100708-KMV-063	10/7/2008	16 ft BGS		749	-	-	-
on-site (EU16)	TT-21	S-38443-100808-KMV-068	10/8/2008	8 ft BGS		604	-	-	-

Table 4.24

Summary of Analytical Results - Lead
OU1 Soil/ Fill Samples
South Dayton Dump and Landfill Site
Moraine, Ohio

						Metals			
					Parameter:	**Lead**	**Lead - coarse fraction**	**Lead - fine fraction**	**Lead - total (calculated by fine/coarse fraction)**
EU Designation	**Sample Location**	**Sample ID**	**Sample Date**	**Sample Depth**	**Unit:**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**
					Detects:	**321**	**29**	**30**	**29**
					Max Detect:	**26000**	**47000**	**28000**	**43000**
on-site (EU16)	TT-21	S-38443-100808-KMV-069	10/8/2008	21 ft BGS		2210	-	-	-
on-site (EU16)	TT-22	S-38443-100808-KMV-066	10/8/2008	6 ft BGS		6180	-	-	-
on-site (EU16)	TT-22	S-38443-100808-KMV-067	10/8/2008	21 ft BGS		252	-	-	-
on-site (EU16)	TT-24	SO-38443-032018-BW-002	3/20/2018	2-4 ft bgs		48	-	-	-
on-site (EU16)	TT-24	SO-38443-032018-BW-001	3/20/2018	13-15 ft BGS		69	-	-	-
on-site (EU17)	BH162-18	S-38443-050818-JC-071	5/8/2018	16-18 ft BGS		7.4	-	-	-
on-site (EU17)	BH163-18	S-38443-050818-JC-070	5/8/2018	17-19 ft BGS		6.4	-	-	-
on-site (EU17)	S05(OEPA)	96-DV-03-S05	7/9/1996	5 ft BGS		16.8	-	-	-
on-site (EU17)	SS-1	S-38443-110917-BW-039	11/9/2017	0-2 ft BGS		58 J	65	110	73
on-site (EU17)	SS-2	S-38443-110917-BW-037	11/9/2017	0.2-2.2 ft BGS		190 J	-	-	-
on-site (EU17)	SS-3	S-38443-110917-BW-034	11/9/2017	0.3-2.3 ft BGS		760 J	690	920	740
on-site (EU17)	SS-3	S-38443-110917-BW-035	11/9/2017	0.3-2.3 ft BGS	Duplicate	100 J	-	-	-
on-site (EU17)	SS-4	SS-38443-122018-JC-004	12/20/2018	0-2 ft BGS		51	-	-	-
on-site (EU17)	SS-5	SS-38443-122018-JC-005	12/20/2018	0.33-2.33 ft BGS		280	-	-	-
on-site (EU17)	SS-5	SS-38443-122018-JC-226	12/20/2018	0.33-2.33 ft BGS	Duplicate	330	-	-	-
on-site (EU17)	SS-6	SS-38443-122018-JC-006	12/20/2018	0.33-2.33 ft BGS		2400	4500 J	2500	4100
on-site (EU17)	SS-7	SS-38443-122018-JC-007	12/20/2018	0-2 ft BGS		930	-	-	-
on-site (EU17)	SS-8	SS-38443-122018-JC-008	12/20/2018	0-2 ft BGS		450	320 J	300	320
on-site (EU17)	SS-9	SS-38443-122018-JC-009	12/20/2018	0-2 ft BGS		60	-	-	-
on-site (EU17)	SS-10	SS-38443-122018-JC-010	12/20/2018	0-2 ft BGS		20	20 J	47	22
on-site (EU17)	SS-11	SS-38443-122018-JC-011	12/20/2018	0-2 ft BGS		68	-	-	-
on-site (EU17)	TP-8	S-38443-110917-BW-040	11/9/2017	14-15 ft BGS		7.8 J	-	-	-
on-site (EU17)	TP-9	S-38443-110917-BW-038	11/9/2017	2-4 ft BGS		130 J	-	-	-
on-site (EU17)	TP-10	S-38443-110917-BW-036	11/9/2017	4-6 ft BGS		1100	-	-	-
on-site (EU17)	TT-1	S-38443-092608-KMV-018	9/26/2008	8 ft BGS		12.9	-	-	-
on-site (EU17)	TT-1	S-38443-092608-KMV-019	9/26/2008	15 ft BGS		5.4 J	-	-	-
on-site (EU17)	TT-2	S-38443-092608-KMV-020	9/26/2008	9 ft BGS		15.3	-	-	-
on-site (EU17)	TT-2	S-38443-092608-KMV-021	9/26/2008	13.5 ft BGS		11.4	-	-	-
on-site (EU17)	TT-3	S-38443-092908-KMV-022	9/29/2008	5 ft BGS		116 J	-	-	-
on-site (EU17)	TT-3	S-38443-092908-KMV-023	9/29/2008	10 ft BGS		426 J	-	-	-
on-site (EU17)	TT-4	S-38443-092908-KMV-024	9/29/2008	3 ft BGS		3970 J	-	-	-
on-site (EU17)	TT-4	S-38443-092908-KMV-025	9/29/2008	5 ft BGS		72.1 J	-	-	-
on-site (EU17)	TT-4	S-38443-092908-KMV-026	9/29/2008	9 ft BGS		17.0 J	-	-	-
on-site (EU17)	TT-4	S-38443-092908-KMV-027	9/29/2008	12 ft BGS		32.8 J	-	-	-
on-site (EU17)	TT-4	S-38443-092908-KMV-028	9/29/2008	20 ft BGS		12.3 J	-	-	-
on-site (EU17)	TT-5	S-38443-093008-KMV-029	9/30/2008	3 ft BGS		484 J	-	-	-
on-site (EU17)	TT-5	S-38443-093008-KMV-030	9/30/2008	7 ft BGS		14100 J	-	-	-
on-site (EU17)	TT-5	S-38443-093008-KMV-031	9/30/2008	14 ft BGS		82.3 J	-	-	-
on-site (EU17)	TT-5	S-38443-093008-KMV-031-D	9/30/2008	14 ft BGS	Duplicate	178 J	-	-	-
on-site (EU17)	TT-5	S-38443-093008-KMV-032	9/30/2008	17 ft BGS		6.4 J	-	-	-
on-site (EU17)	TT-19	S-38443-100708-KMV-059	10/7/2008	7 ft BGS		971	-	-	-

Table 4.24

Summary of Analytical Results - Lead
OU1 Soil/ Fill Samples
South Dayton Dump and Landfill Site
Moraine, Ohio

						Metals			
					Parameter:	**Lead**	**Lead - coarse fraction**	**Lead - fine fraction**	**Lead - total (calculated by fine/coarse fraction)**
EU Designation	**Sample Location**	**Sample ID**	**Sample Date**	**Sample Depth**	**Unit:**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**
					Detects:	**321**	**29**	**30**	**29**
					Max Detect:	**26000**	**47000**	**28000**	**43000**
on-site (EU17)	TT-19	S-38443-100708-KMV-060	10/7/2008	9 ft BGS		10.2 J	-	-	-
on-site (EU17)	TT-20	S-38443-100708-KMV-065	10/7/2008	7 ft BGS		3480	-	-	-
on-site (EU17)	TT-20	S-38443-100708-KMV-064	10/7/2008	15 ft BGS		8.0 J	-	-	-
on-site (EU18)	S2(EPA)	S2	10/23/1990	0-1 ft BGS		43	-	-	-
on-site (EU18)	S03(OEPA)	96-DV-03-S03	7/9/1996	1.5-2 ft BGS		15.4	-	-	-
on-site (EU18)	S03(OEPA)	96-DV-03-D03	7/9/1996	1.5-2 ft BGS	Duplicate	7.2	-	-	-
on-site (EU18)	SS-26	SS-38443-102618-JC-026	10/26/2018	0-2 ft BGS		84	-	-	-
on-site (EU18)	SS-27	SS-38443-102618-JC-027	10/26/2018	0-2 ft BGS		6.4	-	-	-
on-site (EU18)	SS-28	SS-38443-102618-JC-028	10/26/2018	0-2 ft BGS		26	48	260	84
on-site (EU18)	SS-33	SS-38443-102618-JC-033	10/26/2018	0.17-2.17 ft BGS		170	200	290	220
on-site (EU18)	SS-34	SS-38443-102618-JC-034	10/26/2018	0-2 ft BGS		110 J	-	-	-
on-site (EU19)	BH94-17	S-38443-122017-JC-016	12/20/2017	13-14.8 ft BGS		570	-	-	-
on-site (EU19)	BH95-17	S-38443-121917-JC-015	12/19/2017	5-7 ft BGS		28	-	-	-
on-site (EU19)	BH96-18	S-38443-010318-JC-025	1/3/2018	13-15 ft BGS		38	-	-	-
on-site (EU19)	BH164-17	S-38443-122017-JC-018	12/20/2017	18-20 ft BGS		1900	-	-	-
on-site (EU19)	BH165-17	S-38443-122017-JC-020	12/20/2017	21.5-23.5 ft BGS		500 J	-	-	-
on-site (EU19)	BH166-17	S-38443-121917-JC-013	12/19/2017	18-20 ft BGS		37	-	-	-
on-site (EU19)	BH173-17	S-38443-122117-JC-022	12/21/2017	17.5-19.5 ft BGS		4900	-	-	-
on-site (EU19)	BH173-17	S-38443-122117-JC-023	12/21/2017	17.5-19.5 ft BGS	Duplicate	3500	-	-	-
on-site (EU19)	BH176-18	S-38443-051618-JC-072	5/16/2018	18-20 ft BGS		28 J	-	-	-
on-site (EU19)	S1(EPA)	S1	10/23/1990	1-2 ft BGS		64.1	-	-	-
on-site (EU19)	S3(EPA)	S3	10/23/1990	0-1 ft BGS		3300	-	-	-
on-site (EU19)	S4(EPA)	S4	10/23/1990	0-1 ft BGS		10.4	-	-	-
on-site (EU19)	S5(EPA)	S5	10/23/1990	1-2 ft BGS		59.3	-	-	-
on-site (EU19)	S6(EPA)	S6	10/23/1990	0-1 ft BGS		15.9	-	-	-
on-site (EU19)	S7(EPA)	S7	10/23/1990	0-1 ft BGS		474	-	-	-
on-site (EU19)	S8(EPA)	S8	10/23/1990	0-1 ft BGS		1590	-	-	-
on-site (EU19)	S9(EPA)	S9	10/23/1990	0-1 ft BGS		49.7	-	-	-
on-site (EU19)	S11(EPA)	S11	10/23/1990	0-1 ft BGS		811	-	-	-
on-site (EU19)	S01(OEPA)	96-DV-03-S01	7/9/1996	4-4.6 ft BGS		29.9	-	-	-
on-site (EU19)	S02(OEPA)	96-DV-03-S02	7/9/1996	0-0.1 ft BGS		110	-	-	-
on-site (EU19)	S04(OEPA)	96-DV-03-S04	7/9/1996	1.5-2 ft BGS		97.0	-	-	-
on-site (EU19)	S06(OEPA)	96-DV-03-S06	7/9/1996	1.5-2.5 ft BGS		18.2	-	-	-
on-site (EU19)	S09(OEPA)	96-DV-03-S09	7/9/1996	0.3-0.5 ft BGS		1990	-	-	-
on-site (EU19)	S10(OEPA)	96-DV-03-S10	7/9/1996	0-0.3 ft BGS		12100	-	-	-
on-site (EU19)	S11(OEPA)	96-DV-03-S11	7/9/1996	0.2-0.3 ft BGS		242	-	-	-
on-site (EU19)	SS-20	S-38443-103117-BW-005	10/31/2017	0-2 ft BGS		370	-	-	-
on-site (EU19)	SS-21	SS-38443-111918-JC-021	11/19/2018	0-2 ft BGS		210 J	-	-	-
on-site (EU19)	SS-22	S-38443-110717-BW-029	11/7/2017	0-2 ft BGS		13000	6400	4200	5900
on-site (EU19)	SS-23	SS-38443-111918-JC-023	11/19/2018	0-2 ft BGS		360 J	240 J	360	260
on-site (EU19)	SS-24	S-38443-110717-BW-026	11/7/2017	0-2 ft BGS		1900	-	-	-

Table 4.24

Summary of Analytical Results - Lead
OU1 Soil/ Fill Samples
South Dayton Dump and Landfill Site
Moraine, Ohio

						Metals			
					Parameter:	**Lead**	**Lead - coarse fraction**	**Lead - fine fraction**	**Lead - total (calculated by fine/coarse fraction)**
EU Designation	**Sample Location**	**Sample ID**	**Sample Date**	**Sample Depth**	**Unit:**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**
					Detects:	**321**	**29**	**30**	**29**
					Max Detect:	**26000**	**47000**	**28000**	**43000**
on-site (EU19)	SS-29	S-38443-103117-BW-003	10/31/2017	0-2 ft BGS		46	-	-	-
on-site (EU19)	SS-30	S-38443-110217-BW-019	11/2/2017	0-2 ft BGS		17	-	-	-
on-site (EU19)	SS-31	S-38443-110217-BW-017	11/2/2017	0-2 ft BGS		53	59	120	70
on-site (EU19)	SS-35	S-38443-103017-BW-001	10/30/2017	0-2 ft BGS		120	-	-	-
on-site (EU19)	SS-36	S-38443-103117-BW-007	10/31/2017	0-2 ft BGS		42	-	-	-
on-site (EU19)	TP-1	S-38443-092308-KMV-004	9/23/2008	4 ft BGS		32.2	-	-	-
on-site (EU19)	TP-1	S-38443-092308-KMV-003	9/23/2008	6 ft BGS		15.5	-	-	-
on-site (EU19)	TP-1	S-38443-092308-KMV-002	9/23/2008	8 ft BGS		23.1	-	-	-
on-site (EU19)	TP-1	S-38443-092308-KMV-001	9/23/2008	13 ft BGS		17.7	-	-	-
on-site (EU19)	TP-2	S-38443-092408-KMV-005	9/24/2008	1 ft BGS		17.3	-	-	-
on-site (EU19)	TP-2	S-38443-092408-KMV-006	9/24/2008	5 ft BGS		14.3 J	-	-	-
on-site (EU19)	TP-3	S-38443-092408-KMV-007	9/24/2008	4 ft BGS		47.0	-	-	-
on-site (EU19)	TP-3	S-38443-092408-KMV-008	9/24/2008	8.7 ft BGS		316	-	-	-
on-site (EU19)	TP-3	S-38443-092408-KMV-009	9/24/2008	10.4 ft BGS		1390	-	-	-
on-site (EU19)	TP-3	S-38443-092408-KMV-011	9/24/2008	16 ft BGS		7.8 J	-	-	-
on-site (EU19)	TP-4	S-38443-092408-KMV-012	9/24/2008	5 ft BGS		3.7 J	-	-	-
on-site (EU19)	TP-4	S-38443-092408-KMV-013	9/24/2008	10 ft BGS		7.6 J	-	-	-
on-site (EU19)	TP-4	S-38443-092408-KMV-014	9/24/2008	18.6 ft BGS		549	-	-	-
on-site (EU19)	TP-11	S-38443-103117-BW-006	10/31/2017	8-10 ft BGS		2000	-	-	-
on-site (EU19)	TP-12	S-38443-110117-BW-009	11/1/2017	8-10 ft BGS		270 J	-	-	-
on-site (EU19)	TP-12	S-38443-110117-BW-010	11/1/2017	8-10 ft BGS	Duplicate	250 J	-	-	-
on-site (EU19)	TP-14	S-38443-103117-BW-004	10/31/2017	8-10 ft BGS		20	-	-	-
on-site (EU19)	TP-15	S-38443-103017-BW-002	10/30/2017	10-12 ft BGS		180	-	-	-
on-site (EU19)	TP-16	S-38443-103117-BW-008	10/31/2017	4-6 ft BGS		23	-	-	-
on-site (EU19)	TT-15	S-38443-092508-KMV-016	9/25/2008	8.6 ft BGS		70.4	-	-	-
on-site (EU19)	TT-15	S-38443-092508-KMV-016-D	9/25/2008	8.6 ft BGS	Duplicate	64.2	-	-	-
on-site (EU19)	TT-31	S-38443-110717-BW-028	11/7/2017	14-15 ft BGS		3500	-	-	-
on-site (EU19)	TT-32	S-38443-110717-BW-030	11/7/2017	12-14 ft BGS		440	-	-	-
on-site (EU19)	TT-33	S-38443-110317-BW-020	11/3/2017	12-14 ft BGS		23	-	-	-
on-site (EU19)	TT-34	S-38443-110717-BW-027	11/7/2017	8-10 ft BGS		3500	-	-	-
on-site (EU19)	TT-35	S-38443-110617-BW-025	11/6/2017	12-14 ft BGS		590	-	-	-
on-site (EU19)	TT-36	S-38443-110617-BW-024	11/6/2017	2-4 ft BGS		920	-	-	-
on-site (EU19)	TT-37	S-38443-110617-BW-023	11/6/2017	8-10 ft BGS		79	-	-	-
on-site (EU19)	TT-39	S-38443-110217-BW-018	11/2/2017	8-10 ft BGS		47	-	-	-

Notes:

J - Estimated concentration.
U - Not detected at the associated reporting limit.
- - Not applicable.

Table 4.25

Summary of Analytical Results - Herbicides
Ou1 Soil/Fill Samples
South Dayton Dump and Landfill Site
Moraine, Ohio

						Herbicides		
EU Designation	**Sample Location**	**Sample ID**	**Sample Date**	**Sample Depth**	**Parameter:**	**2,4,5-T**	**2,4,5-TP (Silvex)**	**2,4-Dichlorophenoxyacetic acid (2,4-D)**
					Unit:	**µg/kg**	**µg/kg**	**µg/kg**
					Detects:	**0**	**1**	**0**
					Max Detect:	**ND**	**4.6**	**ND**
on-site (EU01)	SS-41	SS-38443-112018-JC-041	11/20/2018	0-2 ft BGS		16 U	17 U	59 U
on-site (EU01)	SS-122	SS-38443-112018-JC-122	11/20/2018	0-2 ft BGS		17 U	18 U	64 U
on-site (EU01)	SS-124	SS-38443-112718-AS-124	11/27/2018	0.17-1.5 ft BGS		15 U	16 U	55 U
on-site (EU01)	TT-14	S-38443-092508-KMV-015	9/25/2008	3 ft BGS		-	23 U	94 UJ
on-site (EU01)	TT-16	S-38443-093008-KMV-033	9/30/2008	2 ft BGS		-	24 U	96 U
on-site (EU02)	SS-148	SS-38443-112018-JC-148	11/20/2018	0-2 ft BGS		15 U	16 U	58 U
on-site (EU02)	SS-152	SS-38443-112018-JC-152	11/20/2018	0-2 ft BGS		15 U	16 U	56 U
on-site (EU03)	TT-18	S-38443-100108-KMV-036	10/1/2008	5 ft BGS		-	27 U	110 U
on-site (EU03)	TT-18	S-38443-100108-KMV-037	10/1/2008	12 ft BGS		-	21 U	85 U
on-site (EU04)	TT-17	S-38443-093008-KMV-034	9/30/2008	5 ft BGS		-	22 U	88 U
on-site (EU04)	TT-17	S-38443-093008-KMV-035	9/30/2008	14 ft BGS		-	25 U	100 U
on-site (EU09)	SS-88	SS-38443-103118-JC-088	10/31/2018	0.5-2.5 ft BGS		15 U	16 U	55 U
on-site (EU09)	TT-13	S-38443-092508-KMV-017	9/25/2008	7 ft BGS		-	21 U	84 UJ
on-site (EU10)	SS-85	SS-38443-103118-JC-085	10/31/2018	0.25-2.25 ft BGS		14 U	15 U	54 U
on-site (EU11)	SS-77	SS-38443-103018-JC-077	10/30/2018	0.5-2.5 ft BGS		16 U	17 U	61 U
on-site (EU11)	TT-11	S-38443-100208-KMV-041	10/2/2008	5 ft BGS		-	22 U	87 UJ
on-site (EU11)	TT-11	S-38443-100208-KMV-042	10/2/2008	10 ft BGS		-	22 U	87 UJ
on-site (EU11)	TT-11	S-38443-100208-KMV-043	10/2/2008	21 ft BGS		-	22 U	87 UJ
on-site (EU11)	TT-12	S-38443-100208-KMV-038	10/2/2008	5 ft BGS		-	22 U	89 UJ
on-site (EU11)	TT-12	S-38443-100208-KMV-039	10/2/2008	10 ft BGS		-	22 U	87 UJ
on-site (EU11)	TT-12	S-38443-100208-KMV-040	10/2/2008	21 ft BGS		-	22 U	89 UJ
on-site (EU12)	SS-89	SS-38443-103018-JC-089	10/30/2018	0-2 ft BGS		16 U	18 U	62 U
on-site (EU12)	TT-10	S-38443-100308-KMV-044	10/3/2008	5 ft BGS		-	24 U	97 UJ
on-site (EU12)	TT-10	S-38443-100308-KMV-045	10/3/2008	10 ft BGS		-	30 U	120 UJ
on-site (EU12)	TT-10	S-38443-100308-KMV-046	10/3/2008	15 ft BGS		-	31 U	120 UJ
on-site (EU13)	SS-94	SS-38443-103018-JC-094	10/30/2018	0-2 ft BGS		17 U	18 U	63 U
on-site (EU14)	SS-52	SS-38443-102918-JC-052	10/29/2018	0-2 ft BGS		16 U	17 U	61 U
on-site (EU14)	TT-8	S-38443-100608-KMV-050	10/6/2008	4 ft BGS		-	23 U	93 U
on-site (EU14)	TT-8	S-38443-100608-KMV-050-D	10/6/2008	4 ft BGS	Duplicate	-	23 U	91 U
on-site (EU14)	TT-8	S-38443-100608-KMV-051	10/6/2008	15 ft BGS		-	21 U	83 U
on-site (EU14)	TT-9	S-38443-100308-KMV-047	10/3/2008	7 ft BGS		-	26 U	100 UJ
on-site (EU14)	TT-9	S-38443-100308-KMV-048	10/3/2008	17 ft BGS		-	38 U	150 UJ
on-site (EU14)	TT-9	S-38443-100308-KMV-049	10/3/2008	22 ft BGS		-	28 U	110 UJ
on-site (EU15)	MW-219	S-38443-120409-DR-001	12/4/2009	24-26 ft BGS		-	21 U	85 U
on-site (EU15)	SS-125	SS-38443-102918-JC-125	10/29/2018	0-2 ft BGS		15 U	16 U	57 U
on-site (EU15)	TT-23	S-38443-100608-KMV-052	10/6/2008	7 ft BGS		-	30 U	120 U
on-site (EU15)	TT-23	S-38443-100608-KMV-053	10/6/2008	18 ft BGS		-	21 U	86 U
on-site (EU16)	TP-5	S-38443-100608-KMV-055	10/6/2008	12 ft BGS		-	26 U	100 U
on-site (EU16)	TP-5	S-38443-100608-KMV-056	10/6/2008	17 ft BGS		-	21 U	83 U
on-site (EU16)	TP-6	S-38443-100608-KMV-057	10/6/2008	11 ft BGS		-	25 U	98 U
on-site (EU16)	TP-6	S-38443-100608-KMV-058	10/6/2008	20 ft BGS		-	21 U	83 U
on-site (EU16)	TT-7	S-38443-100708-KMV-061	10/7/2008	6 ft BGS		-	2600 U	10000 U
on-site (EU16)	TT-7	S-38443-100708-KMV-063	10/7/2008	16 ft BGS		-	500 U	2000 U
on-site (EU16)	TT-21	S-38443-100808-KMV-068	10/8/2008	8 ft BGS		-	1200 U	4900 UJ
on-site (EU16)	TT-21	S-38443-100808-KMV-069	10/8/2008	21 ft BGS		-	490 U	1900 UJ
on-site (EU16)	TT-22	S-38443-100808-KMV-066	10/8/2008	6 ft BGS		-	30 U	120 U
on-site (EU16)	TT-22	S-38443-100808-KMV-067	10/8/2008	21 ft BGS		-	1400 U	5600 UJ
on-site (EU17)	SS-95	SS-38443-122018-JC-095	12/20/2018	0-2 ft BGS		15 U	16 U	58 U
on-site (EU17)	SS-96	SS-38443-122018-JC-096	12/20/2018	0-2 ft BGS		15 U	16 U	58 U
on-site (EU17)	SS-97	SS-38443-122018-JC-097	12/20/2018	0.33-2.33 ft BGS		17 U	18 U	63 U
on-site (EU17)	SS-127	SS-38443-122018-JC-127	12/20/2018	0-2 ft BGS		17 U	19 U	66 U
on-site (EU17)	SS-128	SS-38443-122018-JC-128	12/20/2018	0-2 ft BGS		15 U	16 U	57 U
on-site (EU17)	SS-129	SS-38443-122018-JC-129	12/20/2018	0-2 ft BGS		15 U	16 U	55 U
on-site (EU17)	TT-1	S-38443-092608-KMV-018	9/26/2008	8 ft BGS		-	22 U	86 UJ
on-site (EU17)	TT-1	S-38443-092608-KMV-019	9/26/2008	15 ft BGS		-	21 U	83 UJ
on-site (EU17)	TT-2	S-38443-092608-KMV-020	9/26/2008	9 ft BGS		-	22 U	90 UJ
on-site (EU17)	TT-2	S-38443-092608-KMV-021	9/26/2008	13.5 ft BGS		-	21 U	86 UJ
on-site (EU17)	TT-3	S-38443-092908-KMV-022	9/29/2008	5 ft BGS		-	**4.6 J**	87 U
on-site (EU17)	TT-3	S-38443-092908-KMV-023	9/29/2008	10 ft BGS		-	22 U	86 U
on-site (EU17)	TT-4	S-38443-092908-KMV-024	9/29/2008	3 ft BGS		-	22 U	90 U
on-site (EU17)	TT-4	S-38443-092908-KMV-025	9/29/2008	5 ft BGS		-	22 U	86 U
on-site (EU17)	TT-4	S-38443-092908-KMV-026	9/29/2008	9 ft BGS		-	21 U	83 U
on-site (EU17)	TT-4	S-38443-092908-KMV-027	9/29/2008	12 ft BGS		-	22 U	90 U
on-site (EU17)	TT-4	S-38443-092908-KMV-028	9/29/2008	20 ft BGS		-	22 U	86 U
on-site (EU17)	TT-5	S-38443-093008-KMV-029	9/30/2008	3 ft BGS		-	21 U	84 U

Table 4.25

Summary of Analytical Results - Herbicides
Ou1 Soil/Fill Samples
South Dayton Dump and Landfill Site
Moraine, Ohio

						Herbicides		
					Parameter:	**2,4,5-T**	**2,4,5-TP (Silvex)**	**2,4-Dichlorophenoxyacetic acid (2,4-D)**
EU Designation	**Sample Location**	**Sample ID**	**Sample Date**	**Sample Depth**	**Unit:**	**µg/kg**	**µg/kg**	**µg/kg**
					Detects:	**0**	**1**	**0**
					Max Detect:	**ND**	**4.6**	**ND**
on-site (EU17)	TT-5	S-38443-093008-KMV-030	9/30/2008	7 ft BGS		-	26 U	110 U
on-site (EU17)	TT-5	S-38443-093008-KMV-031	9/30/2008	14 ft BGS		-	22 U	88 U
on-site (EU17)	TT-5	S-38443-093008-KMV-031-D	9/30/2008	14 ft BGS	Duplicate	-	22 U	89 U
on-site (EU17)	TT-5	S-38443-093008-KMV-032	9/30/2008	17 ft BGS		-	22 U	89 U
on-site (EU17)	TT-19	S-38443-100708-KMV-059	10/7/2008	7 ft BGS		-	21 U	85 U
on-site (EU17)	TT-19	S-38443-100708-KMV-060	10/7/2008	9 ft BGS		-	21 U	84 U
on-site (EU17)	TT-20	S-38443-100708-KMV-065	10/7/2008	7 ft BGS		-	26 U	110 U
on-site (EU17)	TT-20	S-38443-100708-KMV-064	10/7/2008	15 ft BGS		-	24 U	96 U
on-site (EU18)	SS-105	SS-38443-102618-JC-105	10/26/2018	0-2 ft BGS		21 U	23 U	81 U
on-site (EU19)	SS-106	SS-38443-111918-JC-106	11/19/2018	0-2 ft BGS		19 U	20 U	71 U
on-site (EU19)	SS-107	SS-38443-111918-JC-107	11/19/2018	0-2 ft BGS		16 U	17 U	59 U
on-site (EU19)	SS-108 (SS-22/TT-32)	SS-38443-111618-JC-108	11/16/2018	0-2 ft BGS		17 U	18 U	62 U
on-site (EU19)	SS-110 (SS-31/TT39)	SS-38443-111918-JC-110	11/19/2018	0-2 ft BGS		15 U	16 U	55 U
on-site (EU19)	SS-110 (SS-31/TT39)	SS-38443-111918-JC-126	11/19/2018	0-2 ft BGS	Duplicate	14 U	15 U	51 U
on-site (EU19)	SS-111 (SS-30/TT-38)	SS-38443-111618-JC-111	11/16/2018	0-2 ft BGS		16 U	17 U	60 U
on-site (EU19)	SS-113 (SS-35/TP-15)	SS-38443-111618-JC-113	11/16/2018	0-2 ft BGS		16 U	18 U	61 U
on-site (EU19)	TP-1	S-38443-092308-KMV-004	9/23/2008	4 ft BGS		-	22 U	87 U
on-site (EU19)	TP-1	S-38443-092308-KMV-003	9/23/2008	6 ft BGS		-	23 U	91 U
on-site (EU19)	TP-1	S-38443-092308-KMV-002	9/23/2008	8 ft BGS		-	26 U	100 U
on-site (EU19)	TP-1	S-38443-092308-KMV-001	9/23/2008	13 ft BGS		-	24 U	96 U
on-site (EU19)	TP-2	S-38443-092408-KMV-005	9/24/2008	1 ft BGS		-	22 U	88 U
on-site (EU19)	TP-2	S-38443-092408-KMV-006	9/24/2008	5 ft BGS		-	32 U	130 U
on-site (EU19)	TP-3	S-38443-092408-KMV-007	9/24/2008	4 ft BGS		-	22 U	89 U
on-site (EU19)	TP-3	S-38443-092408-KMV-008	9/24/2008	8.7 ft BGS		-	22 U	89 U
on-site (EU19)	TP-3	S-38443-092408-KMV-009	9/24/2008	10.4 ft BGS		-	28 U	110 UJ
on-site (EU19)	TP-3	S-38443-092408-KMV-011	9/24/2008	16 ft BGS		-	170 U	670 U
on-site (EU19)	TP-4	S-38443-092408-KMV-012	9/24/2008	5 ft BGS		-	22 U	88 UJ
on-site (EU19)	TP-4	S-38443-092408-KMV-013	9/24/2008	10 ft BGS		-	23 U	90 UJ
on-site (EU19)	TP-4	S-38443-092408-KMV-014	9/24/2008	18.6 ft BGS		-	24 U	96 UJ
on-site (EU19)	TT-15	S-38443-092508-KMV-016	9/25/2008	8.6 ft BGS		-	23 U	92 UJ
on-site (EU19)	TT-15	S-38443-092508-KMV-016-D	9/25/2008	8.6 ft BGS	Duplicate	-	23 U	92 UJ

Notes:

J - Estimated concentration.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 4.26

Summary of Detected Values
Floodplain Soil Samples - Adjacent to OU1
South Dayton Dump and Landfill Site
Moraine, Ohio

Parameters	Units	Samples	Detects	Min Detect	Max Detect	Average (Detects)
Volatiles						
1,4-Dichlorobenzene	µg/kg	26	1	1.2	1.2	1.2
Acetone	µg/kg	26	6	22	140	67
Methylene chloride	µg/kg	26	1	21	21	21
Toluene	µg/kg	26	1	1.3	1.3	1.3
Semi-Volatiles						
2-Methylnaphthalene	µg/kg	26	25	5.7	110	26
Acenaphthene	µg/kg	26	23	4.5	150	41
Acenaphthylene	µg/kg	26	26	5.5	80	34
Anthracene	µg/kg	26	26	6.6	1500	141
Benzaldehyde	µg/kg	26	1	49	49	49
Benzo(a)anthracene	µg/kg	26	26	38	1900	469
Benzo(a)pyrene	µg/kg	26	26	43	1600	509
Benzo(b)fluoranthene	µg/kg	26	26	50	2700	853
Benzo(g,h,i)perylene	µg/kg	26	26	20	810	298
Benzo(k)fluoranthene	µg/kg	26	26	23	1100	301
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	26	18	68	160	117
Butyl benzylphthalate (BBP)	µg/kg	26	3	28	110	62
Carbazole	µg/kg	26	18	32	280	102
Chrysene	µg/kg	26	26	40	1900	562
Dibenz(a,h)anthracene	µg/kg	26	16	17	190	97
Dibenzofuran	µg/kg	26	14	16	100	46
Di-n-butylphthalate (DBP)	µg/kg	26	13	26	59	37
Fluoranthene	µg/kg	26	26	54	4600	1182
Fluorene	µg/kg	26	24	4.7	260	46
Indeno(1,2,3-cd)pyrene	µg/kg	26	26	17	690	278
Naphthalene	µg/kg	26	24	5	99	26
Phenanthrene	µg/kg	26	26	18	2500	596
Phenol	µg/kg	26	1	15	15	15
Pyrene	µg/kg	26	26	68	3900	934
Metals						
Aluminum	mg/kg	26	26	3900	14000	7188
Antimony	mg/kg	26	26	0.13	1.3	0.35
Arsenic	mg/kg	26	26	4.7	12	7.7
Barium	mg/kg	26	26	61	160	110
Beryllium	mg/kg	26	25	0.3	0.83	0.5
Cadmium	mg/kg	26	26	0.2	2.5	0.8
Calcium	mg/kg	26	26	42000	100000	78385
Chromium	mg/kg	26	26	7.6	54	20
Chromium III (trivalent)	mg/kg	26	26	7.3	53	19
Chromium VI (hexavalent)	mg/kg	26	6	0.36	0.76	0.51
Cobalt	mg/kg	26	26	3.3	9.7	5.6
Copper	mg/kg	26	26	9.7	60	26
Iron	mg/kg	26	26	8700	25000	14665
Lead	mg/kg	26	26	11	92	39
Magnesium	mg/kg	26	26	18000	35000	24500
Manganese	mg/kg	26	26	320	690	487
Mercury	mg/kg	26	25	0.035	0.16	0.08
Nickel	mg/kg	26	26	9.1	32	17
Potassium	mg/kg	26	26	460	1900	1026
Selenium	mg/kg	26	26	0.49	1.6	1.0
Silver	mg/kg	26	26	0.036	1.3	0.34
Sodium	mg/kg	26	26	82	130	104
Thallium	mg/kg	26	26	0.11	0.49	0.24
Vanadium	mg/kg	26	26	12	33	19
Zinc	mg/kg	26	26	28	180	88

Table 4.26

Summary of Detected Values
Floodplain Soil Samples - Adjacent to OU1
South Dayton Dump and Landfill Site
Moraine, Ohio

Parameters	Units	Samples	Detects	Min Detect	Max Detect	Average (Detects)
PCBs						
Aroclor-1248 (PCB-1248)	µg/kg	26	1	4600	4600	4600
Aroclor-1254 (PCB-1254)	µg/kg	26	20	39	860	171
Pesticides						
4,4'-DDE	µg/kg	25	2	2.4	2.5	2.5
4,4'-DDT	µg/kg	25	1	17	17	17
alpha-Chlordane	µg/kg	26	2	2.5	11	6.8
Endosulfan sulfate	µg/kg	25	1	2.9	2.9	2.9
Endrin aldehyde	µg/kg	25	2	2	8.9	5.5
gamma-BHC (lindane)	µg/kg	25	1	29	29	29
gamma-Chlordane	µg/kg	25	1	1.5	1.5	1.5
Heptachlor epoxide	µg/kg	26	1	2.8	2.8	2.8
Toxaphene	µg/kg	26	1	51	51	51
Herbicides						
2,4,5-TP (Silvex)	µg/kg	26	1	73	73	73
General Chemistry						
Cyanide (total)	mg/kg	26	1	0.27	0.27	0.27

Notes:

J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.

Table 4.27

Summary of Detected Values
Floodplain Soil Samples - Upstream
South Dayton Dump and Landfill Site
Moraine, Ohio

Parameters	Units	Samples	Detects	Min Detect	Max Detect	Average (Detects)
Semi-Volatiles						
2-Methylnaphthalene	µg/kg	18	17	4.3	27	14
Acenaphthene	µg/kg	18	14	9.6	38	18
Acenaphthylene	µg/kg	18	18	6.2	63	30
Anthracene	µg/kg	18	18	6.9	130	49
Benzaldehyde	µg/kg	18	3	34	85	55
Benzo(a)anthracene	µg/kg	18	18	52	500	311
Benzo(a)pyrene	µg/kg	18	18	63	540	352
Benzo(b)fluoranthene	µg/kg	18	18	110	990	588
Benzo(g,h,i)perylene	µg/kg	18	18	54	390	267
Benzo(k)fluoranthene	µg/kg	18	18	30	380	212
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	18	15	76	240	116
Butyl benzylphthalate (BBP)	µg/kg	18	2	30	38	34
Carbazole	µg/kg	18	16	29	84	42
Chrysene	µg/kg	18	18	71	600	400
Dibenz(a,h)anthracene	µg/kg	18	14	20	110	69
Dibenzofuran	µg/kg	18	4	16	22	20
Di-n-butylphthalate (DBP)	µg/kg	18	6	28	30	29
Fluoranthene	µg/kg	18	18	120	1300	697
Fluorene	µg/kg	18	15	10	37	18
Indeno(1,2,3-cd)pyrene	µg/kg	18	18	48	350	235
Naphthalene	µg/kg	18	15	8.9	22	13
Phenanthrene	µg/kg	18	18	43	610	256
Pyrene	µg/kg	18	18	98	820	552
Metals						
Aluminum	mg/kg	18	18	6400	13000	10400
Antimony	mg/kg	18	18	0.19	0.35	0.27
Arsenic	mg/kg	18	18	6.7	10	8.9
Barium	mg/kg	18	18	73	150	133
Beryllium	mg/kg	18	18	0.32	0.77	0.59
Cadmium	mg/kg	18	18	0.33	2	1
Calcium	mg/kg	18	18	20000	82000	59833
Chromium	mg/kg	18	18	15	45	26
Cobalt	mg/kg	18	18	5	13	8
Copper	mg/kg	18	18	15	54	32
Iron	mg/kg	18	18	13000	23000	19389
Lead	mg/kg	18	18	26	77	46
Magnesium	mg/kg	18	18	8900	32000	22328
Manganese	mg/kg	18	18	350	1000	596
Mercury	mg/kg	18	18	0.041	0.26	0.12
Nickel	mg/kg	18	18	15	30	23
Potassium	mg/kg	18	18	870	1600	1393
Selenium	mg/kg	18	18	0.34	0.83	0.67
Silver	mg/kg	18	18	0.06	1.2	0.52
Sodium	mg/kg	18	17	61	110	95
Thallium	mg/kg	18	18	0.19	0.4	0.3
Vanadium	mg/kg	18	18	17	30	24
Zinc	mg/kg	18	18	60	150	111

Table 4.27

Summary of Detected Values
Floodplain Soil Samples - Upstream
South Dayton Dump and Landfill Site
Moraine, Ohio

Parameters	Units	Samples	Detects	Min Detect	Max Detect	Average (Detects)
PCBs						
Aroclor-1254 (PCB-1254)	µg/kg	18	16	72	3300	712
Pesticides						
4,4'-DDD	µg/kg	18	1	4.1	4.1	4.1
4,4'-DDE	µg/kg	18	2	2	4.5	3
4,4'-DDT	µg/kg	18	4	1.9	3.6	2.6
Endrin aldehyde	µg/kg	18	1	2	2	2
General Chemistry						
Cyanide (total)	mg/kg	18	3	0.26	0.29	0.27

Notes:

J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.

Table 4.28

Summary of Analytical Results
Background Soil Samples - ORA Everett Park
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:							**SS-209**	**SS-210**	**SS-211**	**SS-212**	**SS-213**	**SS-214**	**SS-215**	**SS-216**	**SS-216**
Sample ID:							**SS-38443-120718-JC-209**	**SS-38443-120718-JC-210**	**SS-38443-120718-JC-211**	**SS-38443-120718-JC-212**	**SS-38443-120718-JC-213**	**SS-38443-120718-JC-214**	**SS-38443-120718-JC-215**	**SS-38443-120718-JC-216**	**SS-38443-120718-JC-217**
Sample Date:							**12/7/2018**	**12/7/2018**	**12/7/2018**	**12/7/2018**	**12/7/2018**	**12/7/2018**	**12/7/2018**	**12/7/2018**	**12/7/2018**
Sample Depth:							**0.42-2.42 ft BGS**	**0.33-2.33 ft BGS**	**0.42-2.42 ft BGS**	**0.33-2.33 ft BGS**	**0.42-2.42 ft BGS**	**0.42-2.42 ft BGS**	**0.33-2.33 ft BGS**	**0.42-2.42 ft BGS**	**0.42-2.42 ft BGS**
Parameters	**Units**	**Samples**	**Detects**	**Min Detect**	**Max Detect**	**Average (Detects)**									**Duplicate**
Semi-Volatiles															
2-Chloronaphthalene	µg/kg	9	0	ND	ND	ND	17 U	17 U	17 U	17 U	17 U	17 U	17 U	18 U	17 U
2-Methylnaphthalene	µg/kg	9	8	4.2	120	34	**120**	**15 J**	**34 J**	**27**	**4.2 J**	2.3 U	**64**	**5.0 J**	**4.2 J**
Acenaphthene	µg/kg	9	2	8.6	27	18	**27**	3.4 U	3.4 U	3.5 U	3.5 U	3.4 U	**8.6 J**	3.6 U	3.4 U
Anthracene	µg/kg	9	1	60	60	60	**60**	2.9 U	2.9 U	2.9 U	3.0 U	2.9 U	2.9 U	3.1 U	2.9 U
Benzo(a)anthracene	µg/kg	9	9	6.5	150	28	**150**	**16 J**	**19**	**6.9 J**	**12 J**	**14 J**	**16 J**	**6.5 J**	**9.0 J**
Benzo(a)pyrene	µg/kg	9	9	11	130	31	**130**	**20**	**24**	**11 J**	**19**	**22**	**23**	**12 J**	**14 J**
Benzo(b)fluoranthene	µg/kg	9	9	10	200	43	**200**	**29**	**36**	**10 J**	**25**	**28**	**27**	**12 J**	**18**
Benzo(k)fluoranthene	µg/kg	9	7	9.9	100	26	**100**	**14 J**	**17 J**	8.5 U	**12 J**	**13 J**	**15 J**	8.8 U	**9.9 J**
Chrysene	µg/kg	9	9	8.4	170	36	**170**	**23**	**32**	**10 J**	**20**	**21**	**25**	**8.4 J**	**12 J**
Dibenz(a,h)anthracene	µg/kg	9	1	35	35	35	**35**	8.2 U	8.2 U	8.4 U	8.5 U	8.2 U	8.3 U	8.8 U	8.2 U
Fluoranthene	µg/kg	9	9	14	310	61	**310**	**36**	**46**	**15 J**	**29**	**35**	**39**	**14 J**	**21**
Fluorene	µg/kg	9	4	5	32	14	**32**	3.3 U	**10 J**	**5.0 J**	3.4 U	3.3 U	**8.3 J**	3.5 U	3.3 UJ
Indeno(1,2,3-cd)pyrene	µg/kg	9	8	11	84	25	**84**	**17 J**	**20**	9.0 U	**15 J**	**19**	**18**	**11 J**	**13 J**
Naphthalene	µg/kg	9	2	13	16	15	**16 J**	2.9 U	2.9 U	2.9 U	3.0 U	2.9 U	**13 J**	3.1 U	2.9 U
Pyrene	µg/kg	9	9	12	210	45	**210**	**31**	**41**	**14 J**	**23**	**28**	**34**	**12 J**	**16 J**
Metals															
Aluminum	mg/kg	9	9	7600	14000	9900	**11000**	**8700**	**7600**	**14000**	**10000**	**9800**	**9900**	**8800**	**9300**
Antimony	mg/kg	9	9	0.22	0.33	0.27	**0.29 J**	**0.27 J**	**0.29 J**	**0.22 J**	**0.33 J**	**0.23 J**	**0.32 J**	**0.25 J**	**0.25 J**
Arsenic	mg/kg	9	9	7.2	10	8.4	**9.6**	**7.8**	**7.2**	**10**	**9.4**	**7.8**	**8.5**	**7.7**	**7.2**
Barium	mg/kg	9	9	61	98	79	**98**	**71**	**70**	**83**	**91**	**61**	**81**	**80**	**78**
Beryllium	mg/kg	9	9	0.47	0.68	0.54	**0.68**	**0.51**	**0.47**	**0.62**	**0.58**	**0.49**	**0.54**	**0.47**	**0.50**
Cadmium	mg/kg	9	9	0.11	0.25	0.17	**0.25**	**0.18 J**	**0.18 J**	**0.11 J**	**0.21**	**0.11 J**	**0.20**	**0.17 J**	**0.15 J**
Calcium	mg/kg	9	9	1500	11000	3022	**11000**	**1500**	**1700**	**2100**	**2200**	**1600**	**2100**	**2800**	**2200**
Chromium	mg/kg	9	9	11	19	14	**15**	**12**	**11**	**19**	**14**	**13**	**14**	**13**	**15**
Cobalt	mg/kg	9	9	7.6	9.7	8.6	**9.7**	**8.0**	**7.6**	**9.4**	**9.3**	**8.2**	**8.7**	**8.1**	**8.2**
Copper	mg/kg	9	9	12	17	14	**17**	**14**	**13**	**16**	**15**	**12**	**15**	**13**	**13**
Iron	mg/kg	9	9	14000	23000	17444	**19000**	**16000**	**14000**	**23000**	**19000**	**16000**	**17000**	**16000**	**17000**
Lead	mg/kg	9	9	14	25	19	**25**	**20**	**23**	**16**	**19**	**14**	**22**	**18**	**16**
Magnesium	mg/kg	9	9	1400	6000	2456	**6000**	**1600**	**1400**	**2900**	**2000**	**1800**	**2000**	**2100**	**2300**
Manganese	mg/kg	9	9	570	1000	800	**950**	**730**	**770**	**650**	**1000**	**570**	**840**	**840**	**850**
Mercury	mg/kg	9	9	0.038	0.053	0.048	**0.052 J**	**0.045 J**	**0.050 J**	**0.044 J**	**0.049 J**	**0.038 J**	**0.053 J**	**0.053 J**	**0.046 J**
Nickel	mg/kg	9	9	11	19	14	**16**	**13**	**11**	**19**	**15**	**12**	**13**	**13**	**14**
Potassium	mg/kg	9	9	700	1100	872	**1100**	**740**	**700**	**910**	**970**	**770**	**940**	**860**	**860**
Selenium	mg/kg	9	9	0.33	0.43	0.39	**0.41 J**	**0.38 J**	**0.40 J**	**0.42 J**	**0.41 J**	**0.34 J**	**0.43 J**	**0.33 J**	**0.35 J**
Silver	mg/kg	9	9	0.026	0.053	0.038	**0.053 J**	**0.040 J**	**0.041 J**	**0.031 J**	**0.036 J**	**0.026 J**	**0.044 J**	**0.035 J**	**0.036 J**
Sodium	mg/kg	9	0	ND	ND	ND	53 U	58 U	48 U	48 U	49 U	47 U	51 U	61 U	58 U
Thallium	mg/kg	9	9	0.17	0.25	0.20	**0.25**	**0.19 J**	**0.18 J**	**0.23**	**0.21**	**0.17 J**	**0.21**	**0.18 J**	**0.18 J**
Vanadium	mg/kg	9	9	23	34	27	**29**	**25**	**23**	**34**	**30**	**26**	**28**	**25**	**27**
Zinc	mg/kg	9	9	44	66	54	**66**	**56**	**49**	**56**	**57**	**44**	**54**	**54**	**53**

Notes:

J - Estimated concentration.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.

Table 5.2

Mean Values for Select Parameters
Floodplain Soil Samples - Adjacent to OU1
South Dayton Dump and Landfill
Moraine, Ohio

			Segment 1 - mean values			Segment 2 - mean values			Segment 3 - mean values		
Parameters	**Units**	**Detects**	**All**	**Upper**	**Lower**	**All**	**Upper**	**Lower**	**All**	**Upper**	**Lower**
SVOCs											
Benzo(a)anthracene	µg/kg	26	207.4	264.0	136.8	690.0	502.5	877.5	534.4	612.5	472.0
Benzo(a)pyrene	µg/kg	26	213.7	278.0	133.3	703.8	567.5	840.0	632.2	715.0	566.0
Benzo(b)fluoranthene	µg/kg	26	352.2	474.0	200.0	1241.3	1057.5	1425.0	1010.0	1137.5	908.0
Dibenz(a,h)anthracene	µg/kg	16	26.1	38.8	10.1	96.7	83.5	110.0	60.8	56.0	64.6
Metals											
Aluminum	mg/kg	26	5778	5720	5850	9563	8900	10225	6489	7575	5620
Arsenic	mg/kg	26	8.3	8.4	8.2	9.0	8.6	9.5	6.0	6.6	5.6
Chromium VI (hexavalent)	mg/kg	6	--	--	--	--	--	--	--	--	--
Cobalt	mg/kg	26	4.7	4.7	4.7	7.4	7.1	7.8	4.9	5.6	4.4
Iron	mg/kg	26	12300	12400	12175	19375	18500	20250	12844	14500	11520
Manganese	mg/kg	26	480	464	500	554	548	560	434	470	406
Thallium	mg/kg	26	0.18	0.18	0.19	0.34	0.32	0.36	0.22	0.25	0.19
PCBs											
Aroclor-1248 (PCB-1248)	µg/kg	1	--	--	--	--	--	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/kg	20	66.8	90.6	37.0	256.3	77.5	435.0	131.9	130.3	133.2

Notes:

1 Segment 1 includes SS-164, SS-165, SS-166 and SS-167
Segment 2 includes SS-168, SS-169, SS-170 and SS-171
Segment 3 includes SS-172, SS-173, SS-174 and SS-175

2 Mean values were calculated for 3 cases for each Segment
"All" results includes upper and lower sample intervals
"Upper" results includes samples collected from shallow interval (top 6 inches)
"Lower" results includes samples collected from deeper interval (6 to 24 inches)

3 Mean values were not calculated for chromium VI and PCB-1248 due to low detection frequency

4 Mean value includes detected values and non-detect values (assumed equal to reporting limit)

Table 5.3

Floodplain Soil Samples Results
Comparison to ESVs
South Dayton Dump and Landfill
Moraine, Ohio

Floodplain soil – parameters with max detect > than ESVs	Units	Max. detect – adjacent to OU1	Detection frequency	Screening value	Max. detect – upstream	Detection frequency
VOCs						
Acetone	µg/kg	140	6/26	65	ND	0/18
Methylene chloride	µg/kg	21	1/26	18	ND	0/18
SVOCs						
2-Methylnaphthalene	µg/kg	110	25/26	20.2	27	17/18
Acenaphthene	µg/kg	150	23/26	6.7	38	14/18
Acenaphthylene	µg/kg	80	26/26	5.9	63	18/18
Anthracene	µg/kg	1500	26/26	57	130	18/18
Benzo(a)anthracene	µg/kg	1900	26/26	108	500	18/18
Benzo(a)pyrene	µg/kg	1600	26/26	150	540	18/18
Benzo(b)fluoranthene	µg/kg	2700	26/26	190	990	18/18
Benzo(g,h,i)perylene	µg/kg	810	26/26	170	390	18/18
Benzo(k)fluoranthene	µg/kg	1100	26/26	240	380	18/18
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	160	18/26	20	240	15/18
Butyl benzylphthalate (BBP)	µg/kg	110	3/26	100	38	2/18
Carbazole	µg/kg	280	18/26	69	84	16/18
Chrysene	µg/kg	1900	26/26	166	600	18/18
Dibenz(a,h)anthracene	µg/kg	190	16/26	33	110	14/18
Di-n-butylphthalate (DBP)	µg/kg	59	13/26	11	30	6/18
Fluoranthene	µg/kg	4600	26/26	423	1300	18/18
Fluorene	µg/kg	260	24/26	77	37	15/18
Indeno(1,2,3-cd)pyrene	µg/kg	690	26/26	200	350	18/18
Phenanthrene	µg/kg	2500	26/26	204	610	18/18
Pyrene	µg/kg	3900	26/26	195	820	18/18

Table 5.3

Floodplain Soil Samples Results
Comparison to ESVs
South Dayton Dump and Landfill
Moraine, Ohio

Floodplain soil – parameters with max detect > than ESVs	Units	Max. detect – adjacent to OU1	Detection frequency	Screening value	Max. detect – upstream	Detection frequency
Metals and Cyanide						
Antimony	mg/kg	1.3	26/26	0.27	0.35	18/18
Arsenic	mg/kg	12	26/26	9.8	10	18/18
Barium	mg/kg	160	26/26	20	150	18/18
Cadmium	mg/kg	2.5	26/26	0.36	2	18/18
Chromium	mg/kg	54	26/26	23	45	18/18
Chromium III (trivalent)	mg/kg	53	26/26	26	--	--
Chromium VI (hexavalent)	mg/kg	0.76	6/26	0.34	--	--
Copper	mg/kg	60	26/26	28	54	18/18
Iron	mg/kg	25000	26/26	20000	23000	18/18
Lead	mg/kg	92	26/26	11	77	18/18
Manganese	mg/kg	690	26/26	220	1000	18/18
Mercury	mg/kg	0.16	25/26	0.013	0.26	18/18
Nickel	mg/kg	32	26/26	22.7	30	18/18
Selenium	mg/kg	1.6	26/26	0.52	0.83	18/18
Silver	mg/kg	1.3	26/26	1	1.2	18/18
Thallium	mg/kg	0.49	26/26	0.05	0.4	18/18
Vanadium	mg/kg	33	26/26	7.8	30	18/18
Zinc	mg/kg	180	26/26	4.6	150	18/18
Cyanide (total)	mg/kg	0.27	1/26	0.1	0.29	3/18
Pesticides						
4,4'-DDE	µg/kg	2.5	2/25	1.4	4.5	2/18
4,4'-DDT	µg/kg	17	1/25	1	3.6	4/18
alpha-Chlordane	µg/kg	11	2/26	2.9	ND	0/18
Endosulfan sulfate	µg/kg	2.9	1/25	0.7	ND	0/18
gamma-BHC (lindane)	µg/kg	29	1/25	2.4	ND	0/18
Heptachlor epoxide	µg/kg	2.8	1/26	0.15	ND	0/18
Toxaphene	µg/kg	51	1/26	0.15	ND	0/18
Herbicides						
2,4,5-TP (Silvex)	µg/kg	73	1/26	55	ND	0/18

Appendices

Appendix A
Stratigraphic Logs

TEST PIT STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: TP-8
DATE COMPLETED: 9 November 2017
TEST PIT METHOD: EXCAVATOR
FIELD PERSONNEL: B. WILLIAMS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	TEST PIT	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
2	SW/GW-SAND/GRAVEL, with sandy clay, few cobble, trace silt, compact, fine to coarse sand, fine and coarse gravel, well graded, brown, moist		BACKFILLED WITH TEST PIT SOILS	0-2' -039				>2000
4								445
6	- rootlets at 6.3ft BGS							282
8								134
10	- increase in sandy clay content at 10.0ft BGS							257
12	- decrease in cobble content at 12.0ft BGS							277
14				14-15' -040				310
								320
	END OF BOREHOLE @ 15.00ft BGS	15.00						
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

TEST PIT STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: TP-9
DATE COMPLETED: 9 November 2017
TEST PIT METHOD: EXCAVATOR
FIELD PERSONNEL: B. WILLIAMS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	TEST PIT	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
	TOPSOIL	0.20						
2	SP-SAND (FILL), few fine and coarse gravel, compact, fine grained, brown, moist, trace glass debris, grayish black foundry type sand, trace 1/2" scrap metal banding			0-2' -037				71
				2-4' -038				37
4	SP-SAND (FILL), with fine to coarse subrounded gravel, few cobble, trace silt, compact, fine grained, poorly graded, brown, moist	4.00						27
6								28
8			BACKFILLED WITH TEST PIT SOILS					19
10								19
12								18
14								17
	END OF BOREHOLE @ 15.0ft BGS	15.00						
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

TEST PIT STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: TP-10
DATE COMPLETED: 9 November 2017
TEST PIT METHOD: EXCAVATOR
FIELD PERSONNEL: B. WILLIAMS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	TEST PIT	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
	TOPSOIL	0.30						
2	SP-SAND (FILL), with fine gravel, compact, fine grained, poorly graded, black, moist, brick, wood block, glass and trace scrap metal	2.00		0-2' -034/ 035				0
4	SW/GW-SAND/GRAVEL (FILL), few cobble, trace silt, compact, fine to coarse sand and gravel, well graded, brown, moist, brick, wood block, glass, trace scrap metal, intermixing foundry type sand							5.6
6				4-6' -036				6.1
8	SW/GW-SAND/GRAVEL (FILL), few cobble, trace silt, compact, fine to coarse sand, fine and coarse gravel, brown, moist - 1/2" trace metal banding (possible fallen debris from side wall) at 9.0ft BGS	6.50	BACKFILLED WITH TEST PIT SOILS					6
10								7.1
12								6
14								5.9
								3.1
	END OF BOREHOLE @ 15.0ft BGS	15.00						
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

TEST PIT STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: TP-11
DATE COMPLETED: 31 October 2017
TEST PIT METHOD: EXCAVATOR
FIELD PERSONNEL: B. WILLIAMS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	TEST PIT	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
2	SP-SAND (FILL), few fine gravel, compact, fine grained, brown/black, moist, black foundry type sand, glass, gray wiring, brick debris, 1/4" diameter metal wire			0-2' -005				0.5
4								0.4
6								0.3
8	SW-SAND (FILL), with fine and coarse gravel, trace silt, compact, fine to coarse grained, well graded, brown, moist, cinder block, glass soda bottles, metal wiring, reddish brick, plastic sheeting	6.00	BACKFILLED WITH TEST PIT SOILS					0
10				10' -006				0.4
12								0.3
14								0
	END OF BOREHOLE @ 15.0ft BGS	15.00						0
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

TEST PIT STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: TP-12
DATE COMPLETED: 1 November 2017
TEST PIT METHOD: EXCAVATOR
FIELD PERSONNEL: B. WILLIAMS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	TEST PIT	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
2	SP-SAND (FILL), few fine and coarse gravel, compact, fine grained, brown/black, moist, black foundry type sand, concrete debris, red/gray brick debris, metal wiring, scrap metal, cinder block, wood timbers							46.9
4								72.3
6								74.9
8	- crushed partial drum, no liquid content at 6.5ft BGS		BACKFILLED WITH TEST PIT SOILS	8-10' -009/ 010				81.4
10								83.3
12	- clear plastic sheeting at 11.0ft BGS							36.9
14								32.1
								30.1
	END OF BOREHOLE @ 15.0ft BGS	15.00						
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

TEST PIT STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: TP-13
DATE COMPLETED: 1 November 2017
TEST PIT METHOD: EXCAVATOR
FIELD PERSONNEL: B. WILLIAMS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	TEST PIT	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
	SP-SAND (FILL), with fine and coarse gravel, compact, very fine grained, brown/black and reddish brown, moist, black foundry type sand, brick and concrete debris, metal wiring			0-2' -011				0.7
2								0.8
4								0.7
6	- white aluminum siding at 6.3ft BGS							1.1
	- glass fragments at 7.2ft BGS		BACKFILLED WITH TEST PIT SOILS					
8	- partial drum top at 9.0ft BGS			8-10' -012				1.2
10	- increase in foundry type sand at 10.0ft BGS							0.7
12								0.8
14								0.8
	- moist to wet at 15.0ft BGS	15.00						
16	END OF BOREHOLE @ 15.0ft BGS							
18								
20								
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

TEST PIT STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: TP-14
DATE COMPLETED: 31 October 2017
TEST PIT METHOD: EXCAVATOR
FIELD PERSONNEL: B. WILLIAMS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	TEST PIT	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
2	SW/GW-SAND/GRAVEL (FILL), trace silt, fine to coarse sand, fine and coarse gravel, well graded, black, moist, foundry type sand, timbers, concrete block, reddish brick, 1/4" diameter metal wire, metal shavings		BACKFILLED WITH TEST PIT SOILS	0-2' -003				14.2
4								6.3
6								2.9
8								8.4
10	- weathered backfilled silty clay from 9.0 to 9.5ft BGS			8-10' -004				11.1
12								9.2
14	- bundle of metal shavings at 13.0ft BGS - gray brick at 14.0ft BGS							0.5
16	- wet at 15.0ft BGS END OF BOREHOLE @ 15.0ft BGS	15.00	∇					0.5
18								
20								
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇
CHEMICAL ANALYSIS ⬭

TEST PIT STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: TP-15
DATE COMPLETED: 30 October 2017
TEST PIT METHOD: EXCAVATOR
FIELD PERSONNEL: B. WILLIAMS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	TEST PIT	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
2	SW/GW-SAND/GRAVEL (FILL), trace silt, compact, fine to coarse sand, fine to coarse subangular to subrounded gravel, brown, moist - concrete and brick debris, wood debris, rubber hose, 2" metal pipe, reddish brick and gray slag at 0.5ft BGS			1' -001				478
4								63.5
								34.2
6	SP-SAND (FILL), with silt, compact, fine grained, black, moist, foundry type sand	6.00	BACKFILLED WITH TEST PIT SOILS					63.9
8								76.2
10								
12	- wet at 12.0ft BGS END OF BOREHOLE @ 12.0ft BGS	12.00		11' -002				108
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇
CHEMICAL ANALYSIS ⬭

TEST PIT STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: TP-16
DATE COMPLETED: 31 October 2017
TEST PIT METHOD: EXCAVATOR
FIELD PERSONNEL: B. WILLIAMS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	TEST PIT	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
	SW-SAND (FILL), trace silt, compact, fine to coarse grained, fine to coarse gravel, brown, moist - 12" sections of concrete from 0.2 to 6.2ft BGS			0-2' -007				0.3
2								0.1
4				4-6' -008				0.1
6	GW/SW-GRAVEL/SAND (NATIVE), trace silt, compact, fine and coarse subrounded to rounded gravel, cobble, brown, moist	6.20	BACKFILLED WITH TEST PIT SOILS					0.2
8								0.1
10								0.2
12	END OF BOREHOLE @ 12.0ft BGS	12.00						
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

TEST PIT STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: TP-17
DATE COMPLETED: 2 November 2017
TEST PIT METHOD: EXCAVATOR
FIELD PERSONNEL: B. WILLIAMS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	TEST PIT	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
	SW/GW-SAND/GRAVEL (FILL), compact, fine to coarse sand, fine and coarse gravel, dark brown, moist, concrete and asphalt debris, wood timbers, metal wiring, slag		BACKFILLED WITH TEST PIT SOILS	0-2' -015				0.7
2								
	- plastic spoon at 3.3ft BGS							4.2
4	- rusted and fused D-cell batteries at 4.0ft BGS							
								4.7
6	- metal wiring, tan brick debris at 6.0ft BGS							
								5.3
	- crushed scrap metal at 7.5ft BGS							
8								
	- 4' section of 10" thick concrete at 9.0ft BGS			8-10' -016				6
10								
								4.1
12	SW/GW-SAND/GRAVEL (NATIVE), trace silt, few cobble, compact, fine to coarse sand, fine and coarse subrounded gravel, brown, moist	12.00						3
14	END OF BOREHOLE @ 14.0ft BGS	14.00						
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: TT-24
DATE COMPLETED: 20 March 2018
DRILLING METHOD: EXCAVATOR
FIELD PERSONNEL: B. WILLIAMS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	TEST TRENCH	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
	ASPHALT GRAVEL (FILL), roadway material, dense, black, dry - blue metal wiring, a strand of 4 at 1.1ft BGS		ASPHALT					1.7
2	GW/SW-GRAVEL/SAND (FILL), trace silt, compact, fine to coarse subangular to subrounded gravel, fine to coarse sand, well graded, brown, moist	2.30		2-4' -002				3.8
4	SW-SAND (FILL), few fine and coarse gravel, compact, well graded, black, moist, reddish brick, concrete, wood debris, pepsi bottle glass, metal straps	4.10						26
6								43.1
8			BACKFILLED WITH TEST TRENCH SOILS					741
10	- 3" wide metal banding at 10.0ft BGS							
12	SP-SAND (FILL) (foundry type sand), loose, very fine grained, light gray, moist, strong odor, miscellaneous glass debris, wood debris and trace metal scrap	11.00						1118
								1265
14	- solidified paint sludge, mostly red, yellow and orange, trace pink at 13.0ft BGS - partial drum (approx. 30-gallon size), two 55-gallon steel buckets at 14.0ft BGS			13-14' -001				1319
16	- small circular paper tag, illegible at 14.5ft BGS	15.00						
	END OF BOREHOLE @ 15.0ft BGS							
18								
20								
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: TT-31
DATE COMPLETED: 7 November 2017
DRILLING METHOD: EXCAVATOR
FIELD PERSONNEL: B. WILLIAMS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	TEST TRENCH	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
2	SP-SAND (FILL), few fine and coarse gravel, compact, fine grained, brown/black, moist, partial drum rings, partial drum remnants, steel mattress springs, metal wiring, aluminum scrap, glass debris, heavy duty rubber wheels, cinder black and brick debris							0
								22.7
4								33.1
6								145.2
8		8.00	BACKFILLED WITH TEST TRENCH SOILS					
	SP-SAND (FILL), trace fine gravel, compact, black, moist, foundry type sand	9.00						65.5
10	SW-SAND (FILL), with fine gravel, trace clay, compact, fine to coarse grained, brown/black, moist, brick and concrete debris, glass, scrap metal, black foundry type sand							96.3
12								90.4
14				14-15'-028				131.6
	- moist to wet at 15.0ft BGS	15.00						
16	END OF BOREHOLE @ 15.0ft BGS							
18								
20								
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: TT-32
DATE COMPLETED: 7 November 2017
DRILLING METHOD: EXCAVATOR
FIELD PERSONNEL: B. WILLIAMS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	TEST TRENCH	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
2	SW-SAND (FILL), with fine and coarse subrounded gravel, trace silty clay, compact, fine to coarse sand, brown and black, moist, scrap metal, glass debris, tire iron, plastic bottle, brick and concrete debris			0-2' -029				73.4
	- partial drum ring at 2.0ft BGS							104
4	- glass soda bottle at 4.5ft BGS							62.2
6	- 1/2" steel cable at 6.7ft BGS							79.3
8			BACKFILLED WITH TEST TRENCH SOILS					91.2
10								104.2
12	- 1/2" steel cable at 12.5ft BGS - thin steel metal scrap at 13.0ft BGS			12-14' -030				109.3
14								107.3
	END OF BOREHOLE @ 15.0ft BGS	15.00						
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: TT-33
DATE COMPLETED: 3 November 2017
DRILLING METHOD: EXCAVATOR
FIELD PERSONNEL: B. WILLIAMS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	TEST TRENCH	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
2	SP-SAND (FILL), few fine and coarse gravel, compact, fine grained, black, moist, foundry type sand, with concrete debris, wood debris, glass bottles, mortar and thin metal wiring							24.2
4	- 1" diameter, 4' long scrap metal banding at 3.1ft BGS - concrete and slag debris, brick mortar from 4.0 to 9.5ft BGS							127.3 136.2
6								127.3
8			BACKFILLED WITH TEST TRENCH SOILS					
10	- 1/4" diameter scrap metal at 9.0ft BGS							41.4
12	- 2' wide, 1/4" thick, 2' long scrap metal at 11.2ft BGS							37.2
14	- reddish orange brick at 14.0ft BGS			12-14'-020				184
	END OF BOREHOLE @ 15.0ft BGS	15.00						
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: TT-34
DATE COMPLETED: 7 November 2017
DRILLING METHOD: EXCAVATOR
FIELD PERSONNEL: B. WILLIAMS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	TEST TRENCH	SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
	SW-SAND (FILL), few fine and coarse gravel, compact, fine to coarse grained, well graded, black/brown, moist, partial drum remnants, rubber tires, aluminum siding, glass and ceramic debris, metal shavings, rubber washers, 1/2" metal banding, green tarp material, glass soda bottles, cinder block, brick debris, partial ceramic toilet - metal fragment, partial drum at 1.0ft BGS - insulator at 5.0ft BGS		BACKFILLED WITH TEST TRENCH SOILS	0-2' -026				0.7
2								0.6
4								1.1
6								1.2
8				8-10' -027				1.5
10	- wet at 10.0ft BGS	10.20	∇					
	END OF BOREHOLE @ 10.2ft BGS							
12								
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: TT-35
DATE COMPLETED: 6 November 2017
DRILLING METHOD: EXCAVATOR
FIELD PERSONNEL: B. WILLIAMS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	TEST TRENCH	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
2	SW-SAND (FILL), with fine and coarse gravel, compact, fine to coarse grained, well graded, brown/black, moist, black foundry type sand, brick debris, scrap metal, slag, rubber washer and 1/4" diameter metal wiring - 4" section of concrete at 1.0ft BGS							29.2
4								49.4
6								88.8
8			BACKFILLED WITH TEST TRENCH SOILS					82.3
10								48.4
12								87.6
14	- small Balz glass bottles at 12.5ft BGS - increase in black foundry type sand, decrease in gravel content, drum ring lid, slag debris at 13.0ft BGS - wet at 14.0ft BGS	14.50		12-14'-025				110
16	END OF BOREHOLE @ 14.5ft BGS							
18								
20								
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: TT-36
DATE COMPLETED: 6 November 2017
DRILLING METHOD: EXCAVATOR
FIELD PERSONNEL: B. WILLIAMS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	TEST TRENCH	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
2	SW/GW-SAND/GRAVEL (FILL), trace silt, trace silty clay, trace cobble, compact, firm to coarse sand, fine and coarse gravel, black, moist, small metal wire springs, circular metal disc, wood timbers, scrap metal banding throughout, scrap metal throughout, concrete and brick debris, aluminum can, black foundry type sand							>2000
4				2-4' -024				>2000
	- circular concrete wheel, cardboard at 2.0ft BGS							910
6	- partial drum remnants at 2.5ft BGS - partial drum remnants at 4.0ft BGS		BACKFILLED WITH TEST TRENCH SOILS					126
8								
	- concrete debris, plastic sheeting at 9.0ft BGS							65
10								
								579
12								NA
14	END OF BOREHOLE @ 13.5ft BGS	13.50						
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: TT-37
DATE COMPLETED: 6 November 2017
DRILLING METHOD: EXCAVATOR
FIELD PERSONNEL: B. WILLIAMS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	TEST TRENCH	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
	SP-SAND (FILL), trace fine and coarse gravel, compact, fine grained, poorly graded, black, moist, foundry type sand, brake pad components, trace 1/2 metal banding		BACKFILLED WITH TEST TRENCH SOILS					21.4
2								27.3
4								31.2
6		6.50						
	SW/GW-SAND/GRAVEL (FILL), trace cobble, compact, fine to coarse grained, subangular to subrounded gravel, well graded, black, moist, foundry type sand, trace metal shavings							34.5
8		9.00		8-10' -023				36.1
	FILL, trash, plastic sheeting, brick and concrete debris, light bulb, wood debris, black sand - wet, sulphur-like odor at 10.0ft BGS							
10								18.2
12	END OF BOREHOLE @ 12.0ft BGS	12.00						
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

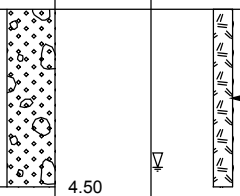
NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇
CHEMICAL ANALYSIS ⬭

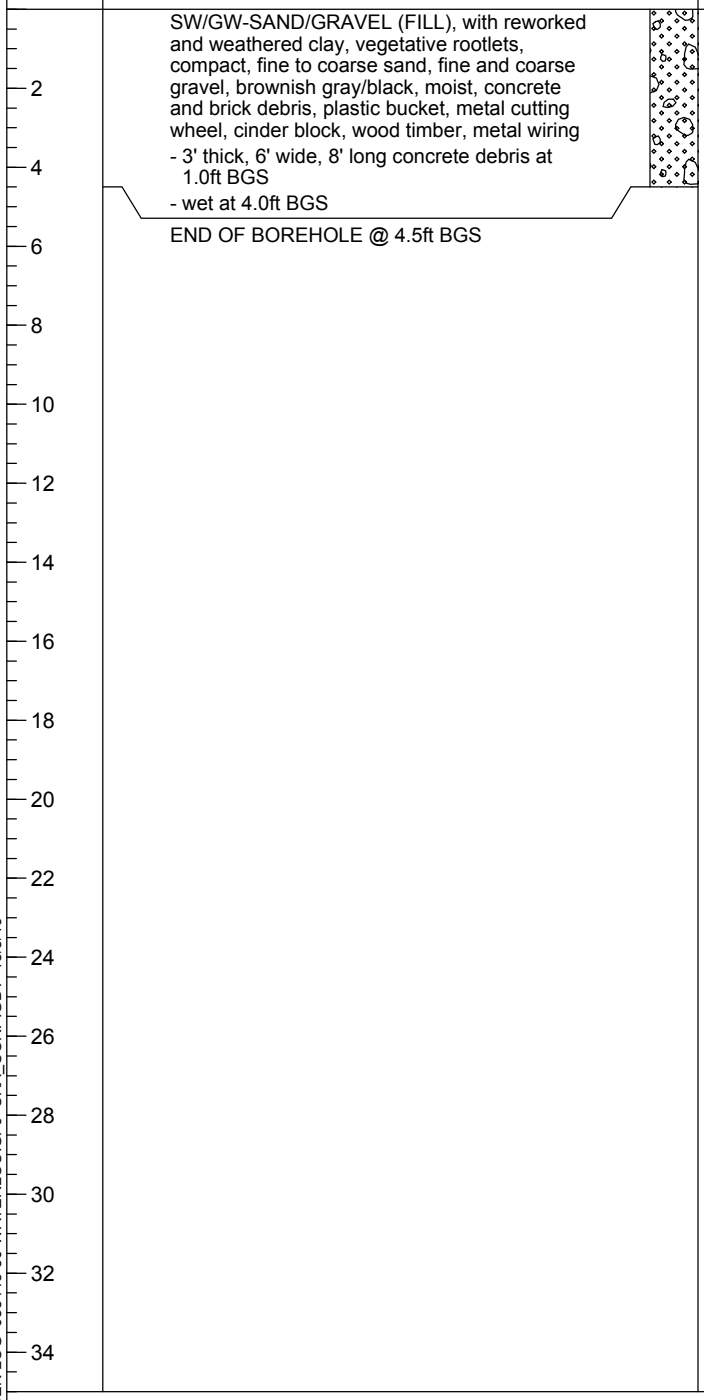
STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: TT-38
DATE COMPLETED: 1 November 2017
DRILLING METHOD: EXCAVATOR
FIELD PERSONNEL: B. WILLIAMS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	TEST TRENCH	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
	SW/GW-SAND/GRAVEL (FILL), with reworked and weathered clay, vegetative rootlets, compact, fine to coarse sand, fine and coarse gravel, brownish gray/black, moist, concrete and brick debris, plastic bucket, metal cutting wheel, cinder block, wood timber, metal wiring - 3' thick, 6' wide, 8' long concrete debris at 1.0ft BGS - wet at 4.0ft BGS		BACKFILLED WITH TEST TRENCH SOILS	0-2' -019				27.1 22.3
	END OF BOREHOLE @ 4.5ft BGS	4.50						





NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: TT-39
DATE COMPLETED: 2 November 2017
DRILLING METHOD: EXCAVATOR
FIELD PERSONNEL: B. WILLIAMS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	TEST TRENCH	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
2	SW/GW-SAND/GRAVEL (FILL), compact, fine to medium sand, fine and coarse subangular gravel, brown, moist, brick and concrete debris, trace metal wiring, weathered clay	2.00		0-2' -017				16.1
4	SC-CLAYEY SAND (FILL), few fine and coarse gravel, reworked and weathered clay, compact, trace marl, fine grained, brown, moist, reddish brick debris, concrete debris, wood timbers, metal							21.4
6								26.5
8			BACKFILLED WITH TEST TRENCH SOILS					11.9
10				8-10' -018				28.4
12	- clear plastic bag material at 12.0ft BGS - 1/2 diameter metal wiring at 12.5ft BGS							11.7
14								3.6
								3.9
	END OF BOREHOLE @ 15.0ft BGS	15.00						
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: TT-40
DATE COMPLETED: 3 November 2017
DRILLING METHOD: EXCAVATOR
FIELD PERSONNEL: B. WILLIAMS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	TEST TRENCH	SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
2	SW/GW-SAND/GRAVEL (FILL), cobble, compact, fine to coarse sand, fine and coarse gravel, well graded, black, moist, black and red foundry type sand, white sand, wood debris, concrete, slag and brick debris, rubber hose, metal wires and mortar material - fine red sand from 3.0 to 3.4ft BGS			0-2' -021				31.3 322
4								
6	- 3' sections of intertwined slag, scrap metal at 6.0ft BGS - fine white sand, gypsum like material at 6.5ft BGS		BACKFILLED WITH TEST TRENCH SOILS	6-8' -022				636 652
8		8.50						
10	SP-SAND (FILL), trace silt, trace fine gravel, compact, medium grained, poorly graded, black, moist, brick debris, rubber hose, metal wiring - walls collapsed - ceased excavation at 10.0ft BGS	10.00						290
12	END OF BOREHOLE @ 10.0ft BGS							
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: TT-41
DATE COMPLETED: 1 November 2017
DRILLING METHOD: EXCAVATOR
FIELD PERSONNEL: B. WILLIAMS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	TEST TRENCH	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
2	SW-SAND (FILL), few fine and coarse gravel, peat, compact, black, moist, some black foundry type sand, 10' long 3" wide metal strapping, 3/8" diameter metal rods, concrete debris - wet at 3.0ft BGS	3.00	BACKFILLED WITH TEST TRENCH SOILS	0-2'-013/ 014				0.4
4	END OF BOREHOLE @ 3.0ft BGS							
6								
8								
10								
12								
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: TT-43
DATE COMPLETED: 8 November 2017
DRILLING METHOD: EXCAVATOR
FIELD PERSONNEL: B. WILLIAMS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	TEST TRENCH	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
	GP-GRAVEL (FILL), parking lot base	0.70						
2	SW/GW-SAND/GRAVEL (FILL), with cobble, trace silt, compact, fine to coarse sand, fine and coarse gravel, well graded, dark brown to black, moist, concrete, orangish brick, white plastic wrapping, glass debris and wood block			0.7-2' -031/ 032				44.2
4	- red and white scrap metal at 4.0ft BGS							37.3
6								42.1
8			BACKFILLED WITH TEST TRENCH SOILS	6-8' -033				55.3
10	- black foundry type sand from 8.5 to 9.0ft BGS							57.2
12	- trace scrap metal at 11.1ft BGS - 1/4" diameter metal cable at 12.0ft BGS - trace scrap metal at 12.5ft BGS							39 38.6
14								27.9
	END OF BOREHOLE @ 15.0ft BGS	15.00						
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

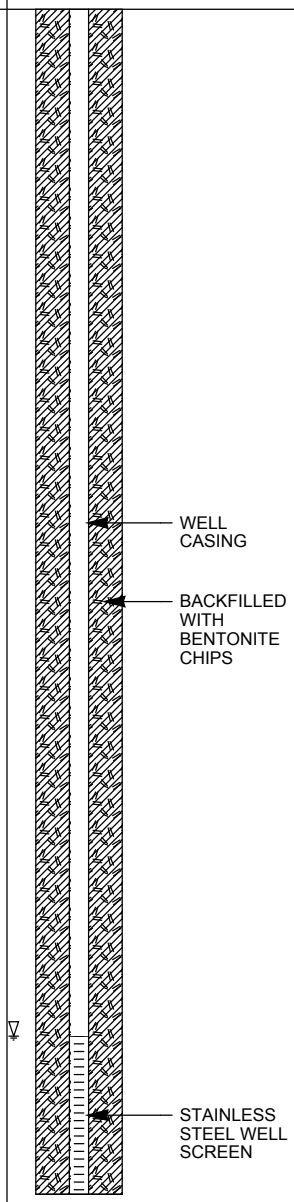
CHEMICAL ANALYSIS

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH01-18
DATE COMPLETED: 8 May 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS
	ML-SILT (FILL), cohesive, dark brown, dry	
2		
4	- increase in clay and silt content at 4.0ft BGS	
6		
8	- trace fine sand at 8.0ft BGS	8.00
	SM-SILTY SAND (FILL), trace clay, fine grained, consolidated, well graded, dark brown, moist	
10		
12	- trace fine gravel at 11.7ft BGS	
14		
	SW-SAND (FILL), loose, fine to medium grained, well graded, gray, dry	15.00 15.20
16		
	SM-SILTY SAND (FILL), trace clay, fine grained, consolidated, well graded, dark brown, moist	
18		
20		
22		
24	CL-SILTY CLAY (NATIVE), trace fine sand, cohesive, low plasticity, tan/light brown, moist	24.00
26	SW-SAND, trace silt, loose, fine to medium grained, well graded, light brown, wet	25.90
	- increase in coarse sand and fine gravel at 26.7ft BGS	27.50
28	GW/SW-GRAVEL/SAND, trace silt, fine gravel, loose, medium to coarse sand, well graded, tan/brown, wet	
30		
32	END OF BOREHOLE @ 32.0ft BGS	32.00
34		



WELL DETAILS
Screened interval:
26.00 to 30.00ft BGS
Length: 4ft
Material: STAINLESS STEEL

SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
1GP		53		0.0 / NA
2GP		23		0.0 / NA
3GP		48		0.0 / NA
4GP 13.5-14.5' NEG SUDAN IV		78		0.0 / NA
5GP		100		0.0 / NA
6GP		100		0.0 / NA
7GP 25.5-26.5' NEG SUDAN IV		88		0.0 / NA
8GP				0.0 / NA

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH02-18
DATE COMPLETED: 7 May 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	TEMP MONITORING WELL	SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
2	ML-SILT (FILL), trace clay, trace fine sand, trace fine gravel, cohesive, dark brown, dry			1GP		65		0.0 / NA
4								
6	- wood fragment at 6.0ft BGS			2GP		70		0.0 / NA
8	- wood fragment at 8.7ft BGS							
10				3GP		35		0.0 / NA
12								
14			WELL CASING	4GP		68		0.0 / NA
	SW-SAND (FILL), loose, fine to medium grained, well graded, brown, dry	14.60 14.80						
16	ML-SILT (FILL), little clay, cohesive, dark brown, moist		BACKFILLED WITH BENTONITE CHIPS					
18				5GP		93		0.0 / NA
20								
22				6GP		100		0.0 / NA
24	CL-SILTY CLAY (NATIVE), cohesive, medium brown, moist	24.00						
26				7GP		65		0.0 / NA
28	GW-GRAVEL, little medium to coarse sand, little silt and clay, fine grained, consolidated, brown/tan, wet - wet at 27.7ft BGS	27.40	∇	27-28' NEG SUDAN IV				
30			STAINLESS STEEL WELL SCREEN	8GP		25		0.0 / NA
32	END OF BOREHOLE @ 32.0ft BGS	32.00						
34								

WELL DETAILS
Screened interval:
27.50 to 31.50ft BGS
Length: 4ft
Material: STAINLESS STEEL

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇

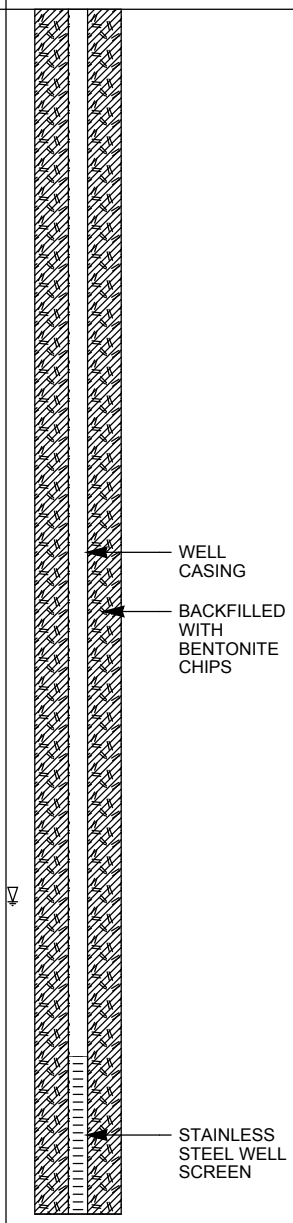
STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH03-18
DATE COMPLETED: 7 May 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS
	ML-SILT, trace fine to medium sand, slightly cohesive, brown, dry	
	CL-CLAY, silt, cohesive	11.30
	SM-SILTY SAND, trace clay, fine grained, trace coarse grained, consolidated, brown, wet - trace fine gravel at 23.4ft BGS	22.60
	GW-GRAVEL, little medium to coarse sand, loose, fine grained	24.20
	END OF BOREHOLE @ 30.5ft BGS	30.50

TEMP MONITORING WELL



WELL DETAILS
Screened interval:
26.50 to 30.50ft BGS
Length: 4ft
Material: STAINLESS STEEL

SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
1GP		60		0.0 / NA
2GP		53		0.0 / NA
3GP		60		0.0 / NA
4GP		60		0.0 / NA
5GP		80		0.0 / NA
6GP 22-23' NEG SUDAN IV		63		0.0 / NA
7GP		23		0.0 / NA

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇

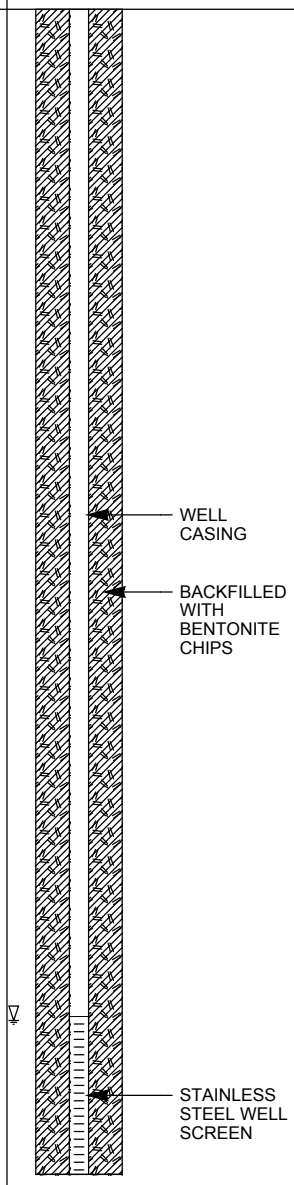
STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH04-18
DATE COMPLETED: 8 May 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS
	TOPSOIL/GRASS	0.20
	ML-SILT (FILL), trace fine sand, cohesive, dark brown, dry	
	- concrete pieces at 3.0ft BGS	
	SW-SAND (FILL), loose, fine to medium grained, well graded	14.20
	ML-SILT (FILL), trace fine sand, cohesive, dark brown, dry	14.40
	SM-SILTY SAND (NATIVE), fine grained, consolidated, well graded, brown, dry	18.00
	SW-SILTY SAND, fine to medium grained, well graded, slightly consolidated, tan, moist	20.00
	- wet at 25.6ft BGS	
	GW/SW-GRAVEL/SAND, loose, fine gravel, medium to coarse sand, well graded, brown/tan, wet	27.20
	- silty gravel from 30.5 to 31.5ft BGS	
	END OF BOREHOLE @ 32.0ft BGS	32.00

TEMP MONITORING WELL



WELL DETAILS
Screened interval:
25.50 to 29.50ft BGS
Length: 4ft
Material: STAINLESS STEEL

SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
1GP		68		0.0 / 0.0
2GP		55		0.0 / 0.0
3GP		28		0.0 / 0.0
4GP		53		0.0 / 0.0
16-18' -071				
5GP		73		0.0 / 0.0
6GP		78		0.0 / 0.0
25-26' NEG SUDAN IV 7GP		73		0.0 / 0.0
8GP				0.0 / 0.0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇
CHEMICAL ANALYSIS ⬭

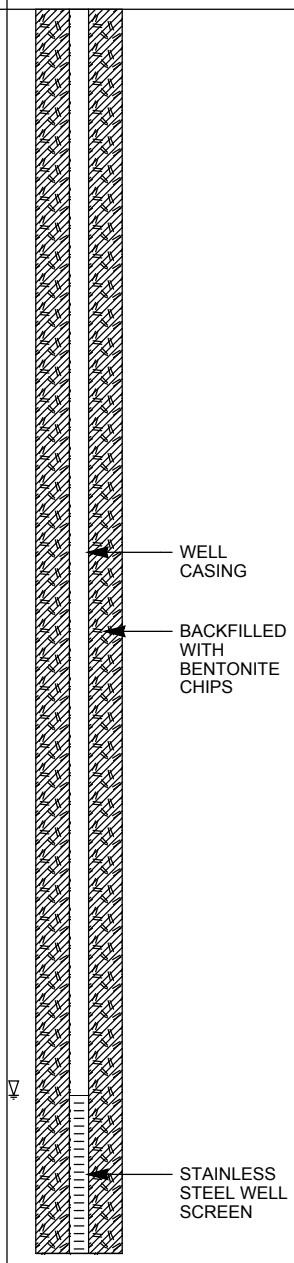
STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH05-18
DATE COMPLETED: 10 May 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS
	SW-SAND (FILL), loose, fine to medium grained, well graded, black, dry	0.50
2	SW-SAND (FILL), little fine gravel, little silt, medium to coarse grained, well graded, slightly consolidated, gray, dry	
4	- 1 crushed brick at 4.0ft BGS	
6	- red clay crushed brick at 6.0ft BGS	
8	- red clay crushed brick at 7.7ft BGS - very little recovery from 8.0 to 12.0ft BGS	
10		
12		
14		
16		
18		
20	GW/SW-SILTY GRAVEL/SAND (NATIVE), loose, fine gravel, fine to coarse sand, well graded, tan, dry	20.20
22		
24		
26		
28	- wet at 27.5ft BGS	
30		
32	CL-CLAY (till), low plasticity, gray, dry END OF BOREHOLE @ 32.0ft BGS	31.50 32.00
34		

TEMP MONITORING WELL



WELL DETAILS
Screened interval:
27.50 to 31.50ft BGS
Length: 4ft
Material: STAINLESS STEEL

SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
1GP		58		0.0 / 0.0
2GP		30		0.0 / 0.0
3GP		10		0.0 / 0.0
4GP		0		-- / --
5GP		48		0.0 / 0.0
6GP		60		0.0 / 0.0
7GP		60		0.0 / 0.0
27-28' NEG SUDAN IV				
8GP		48		0.0 / 0.0

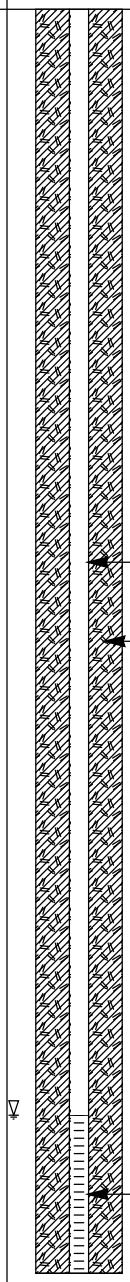
NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH06-18
DATE COMPLETED: 9 May 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS
	ASPHALT	0.33
2	SW-SAND (FILL), trace silt, trace fine gravel, loose, fine to coarse grained, well graded, dark gray/black, dry	
4		
6	- loose, fine to medium grained from 5.0 to 5.7ft BGS	
8		
10		
12	- 1" thick iron staining at 11.7ft BGS - red clay brick fragments at 12.0ft BGS - crushed brick, white/peach at 13.0ft BGS	
14		
16		
18		19.00
20	CL-SILTY CLAY (FILL), cohesive, low to medium plasticity, black, moist	
22		
24	SW-SAND (NATIVE), some fine gravel, loose, medium to coarse grained, well graded, tan/brown, dry	24.00
26	- silty from 25.0 to 26.0ft BGS	
28	- wet at 28.0ft BGS - rock fragments at 29.0ft BGS	
	SW-SAND, trace fine gravel, loose, medium to coarse grained, well graded, brown, wet	29.30
30	- iron stained silt at 31.0ft BGS	
32	END OF BOREHOLE @ 32.0ft BGS	32.00
34		



WELL DETAILS
Screened interval:
28.00 to 32.00ft BGS
Length: 4ft

SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
1GP		78		0.0 / 0.0
2GP		55		0.0 / 0.0
3GP		58		0.0 / 0.0
4GP		50		0.0 / 0.0
5GP		40		0.0 / 0.0
6GP		63		0.0 / 0.0
7GP		53		0.0 / 0.0
27.5-28.5 NEG SUDAN IV				
8GP				0.0 / 0.0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH06-18
DATE COMPLETED: 9 May 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	TEMP MONITORING WELL	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
36			Material: STAINLESS STEEL					
38								
40								
42								
44								
46								
48								
50								
52								
54								
56								
58								
60								
62								
64								
66								
68								

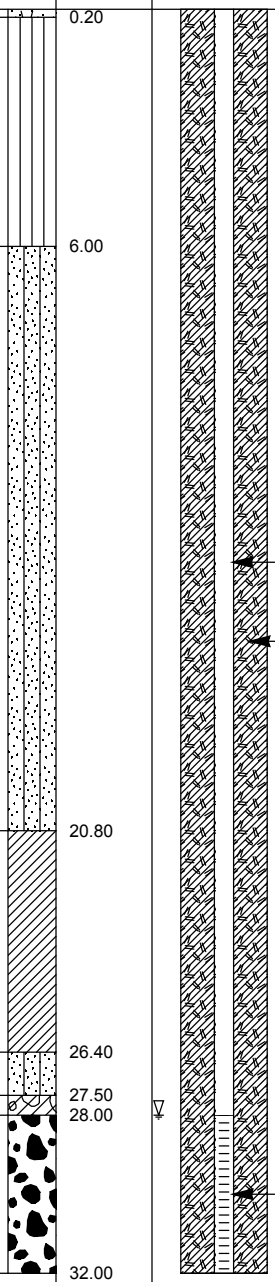
NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH07-18
DATE COMPLETED: 9 May 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS
	TOPSOIL/GRASS	0.20
	ML-SILT (FILL), cohesive, brown, dry - increase in clay content at 1.8ft BGS	
	SM-SILTY SAND (FILL), trace clay, fine grained, consolidated, well graded, brown, moist	6.00
	CL-SILTY CLAY (NATIVE), trace fine sand, cohesive, black/medium brown, moist	20.80
	SM-SILTY SAND, trace clay, fine grained, consolidated, well graded, brown, moist	26.40
	GC-CLAYEY/SILTY GRAVEL, little fine to coarse sand, fine grained, well graded, brown, wet	27.50 28.00
	GW-GRAVEL, little medium to coarse sand, loose, fine to coarse grained, well graded, brown, wet	
	END OF BOREHOLE @ 32.0ft BGS	32.00



WELL DETAILS
Screened interval:
28.00 to 32.00ft BGS
Length: 4ft

SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
1GP		65		0.0 / 0.0
2GP		70		0.0 / 0.0
3GP		65		0.0 / 0.0
4GP		55		0.0 / 0.0
5GP		75		0.0 / 0.0
6GP		98		0.0 / 0.0
7GP		83		0.0 / 0.0
27-28' NEG SUDAN IV				
8GP		50		0.0 / 0.0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH07-18
DATE COMPLETED: 9 May 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	TEMP MONITORING WELL	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
36			Material: STAINLESS STEEL					
38								
40								
42								
44								
46								
48								
50								
52								
54								
56								
58								
60								
62								
64								
66								
68								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇

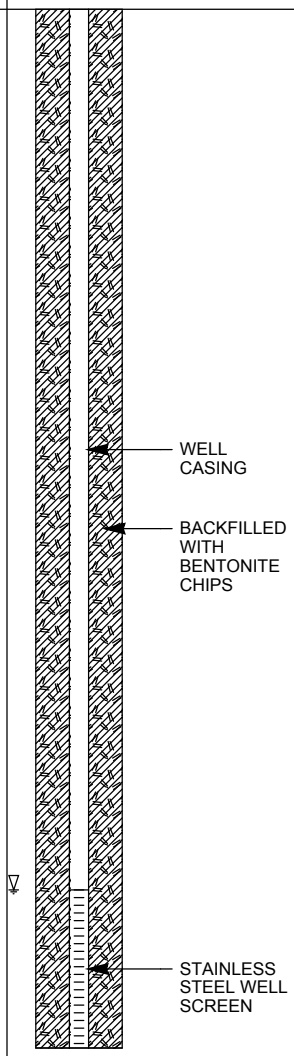
STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH08-18
DATE COMPLETED: 11 May 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS
	ASPHALT	0.25
2	SW-SAND (FILL), little fine gravel, glass, brick, slag, loose, fine to coarse grained, well graded, brown/dark gray, dry - crushed tan brick at 1.0ft BGS - silty sand, gray at 3.3ft BGS	
4		
6	- crushed red clay brick at 6.0ft BGS	
8		8.50
10	SW/GW-SAND/GRAVEL (NATIVE), loose, fine to coarse sand, fine gravel, well graded, tan/brown, dry	
12		
14		
16		
18		
20		
22	- wet at 22.3ft BGS	
24	- gray, wet, odor from 25.0 to 26.0ft BGS	
26	- dark brown staining at 27.0ft BGS	
28	END OF BOREHOLE @ 28.0ft BGS	28.00
30		
32		
34		

TEMP MONITORING WELL



WELL DETAILS
Screened interval:
22.30 to 26.30ft BGS
Length: 4ft
Material: STAINLESS STEEL

SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
1GP		65		0.0 / 0.0
2GP		35		0.0 / 0.0
3GP		63		0.0 / 0.0
4GP		70		0.0 / 0.0
5GP		53		0.0 / 0.0
6GP 22-23' NEG SUDAN IV		53		0.0 / 0.0
25-26' SLIGHT POS SUDAN IV 7GP		53		0.0 / 0.0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇

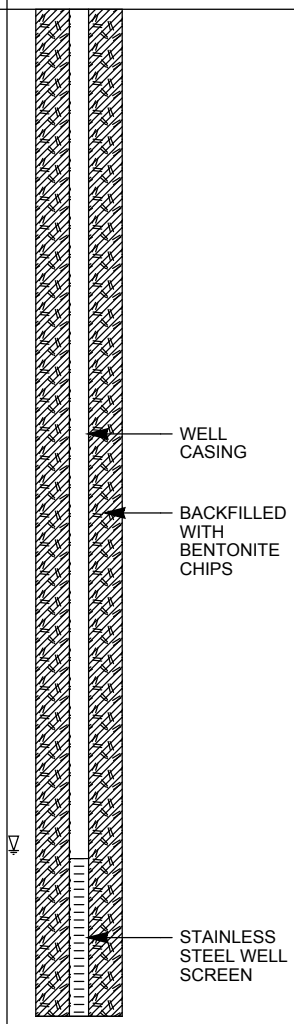
STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH09-18
DATE COMPLETED: 11 May 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS
	SW-SAND (FILL), foundry type sand, slag, glass, loose, fine to medium grained, well graded, brown, dry	
2		
	- gray/black at 3.5ft BGS	
4	- medium to coarse grained, slag at 4.5ft BGS	
6		
	- slag, glass, foundry type sand, black at 6.8ft BGS	
8		
10		
	- increase in silt content at 11.0ft BGS	
12		
14	- perched water from 13.8 to 15.0ft BGS	
16		
	- rock fragments at 17.5ft BGS	
18		
	- red clay brick fragments at 19.5ft BGS	
20		
	- wet at 21.3ft BGS	
22		
24		
26		
	SW-SAND (NATIVE), loose, fine to medium grained, well graded, dry	26.50
28	END OF BOREHOLE @ 28.0ft BGS	28.00
30		
32		
34		

TEMP MONITORING WELL



WELL DETAILS
Screened interval:
21.50 to 25.50ft BGS
Length: 4ft
Material: STAINLESS STEEL

SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
1GP		45		0.0 / 0.0
				0.4
2GP		60		0.0 / 0.0
				1.0
3GP		50		0.0 / 0.0
4GP		75		0.0 / 0.0
5GP		50		0.0 / 0.0
21-22' NEG SUDAN IV 6GP		60		0.0 / 0.0
7GP		50		0.0 / 0.0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH10-18
DATE COMPLETED: 11 May 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	TEMP MONITORING WELL	SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
	ASPHALT	0.25						
2	GW/SW-SAND/GRAVEL (FILL), loose, fine gravel, fine to coarse sand, well graded			1GP		45		0.0 / 0.0
		3.30						
4	SW-SAND (FILL), trace silt, fine to coarse grained, slightly consolidated, gray, dry	4.00						
6	GM/SM-SILTY GRAVEL/SAND (FILL), consolidated, well graded, medium brown, dry			2GP		25		0.0 / 0.0
8		8.00						
10	SW/GW-SAND/GRAVEL (native), loose, fine to coarse sand, fine gravel, well graded, light brown, dry			3GP		63		0.0 / 0.0
12	- 2" seam medium to coarse sand, no gravel at 11.4ft BGS							
14				4GP		63		0.0 / 0.0
16								
18				5GP		60		0.0 / 0.0
			WELL CASING	19-20 NEG SUDAN IV				
20	SW-SAND, loose, medium to coarse grained, well graded, brown, wet	19.50						
			BACKFILLED WITH BENTONITE CHIPS					
22				6GP		50		0.0 / 0.0
24								
26				7GP		45		0.0 / 0.0
28								
30				8GP		60		0.0 / 0.0
32								
	CL-SILTY CLAY, cohesive, firm, low plasticity, gray, moist	32.70						
34				9GP		100		0.0 / 0.0
	SW-SAND, some fine gravel, loose, medium to	34.30						1.4

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH10-18
DATE COMPLETED: 11 May 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	TEMP MONITORING WELL	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
36	coarse grained, well graded, brown, wet							
38				10GP		70		0.0 / 0.0
		39.20						
40	SW-SAND, loose, fine to medium grained, well graded, gray/brown, wet	40.00	STAINLESS STEEL WELL SCREEN	39-41' POS SUDAN IV				
	SW/GW-SAND/GRAVEL, loose, medium to coarse sand, fine gravel, well graded, black, wet, strong odor							5.1
42				11GP		70		0.0 / 0.0
44	END OF BOREHOLE @ 44.0ft BGS	44.00						
46								
48								
50								
52								
54								
56								
58								
60								
62								
64								
66								
68								

WELL DETAILS
Screened interval:
38.00 to 42.00ft BGS
Length: 4ft
Material: STAINLESS STEEL

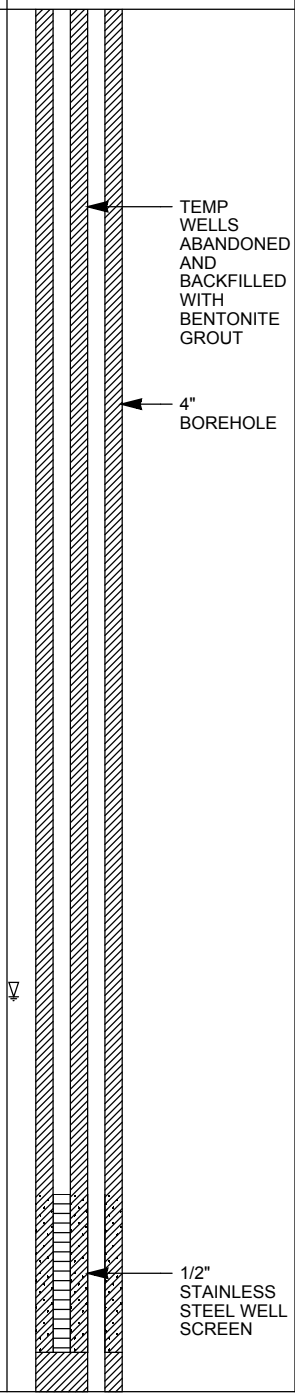
NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH11-18
DATE COMPLETED: 31 July 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS
	SW-SILTY SAND (FILL), trace little fine gravel, slightly cohesive, medium to coarse grained, well graded dark gray/black, dry	
2		
4	- 6" red clay brick fragments, with slag and foundry type sand at 4.0ft BGS - crushed rock/concrete at 4.5ft BGS	
6		
8	ML-SANDY SILT (FILL), cohesive, dark brown, moist	7.90
10	SW/GW-SAND/GRAVEL (NATIVE), loose, fine gravel, medium to coarse sand, well graded, tan/light brown, dry	9.70
12		
14		
16		
18		
20		
22		
24		
26		
28		
30		
32	ML-CLAYEY SILT, trace fine, medium and coarse sand, cohesive, gray, dry	32.00
34	- REFUSAL at 34.0ft BGS	34.50



SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
1RS		48		0/0
2RS		33		0/0
3RS		50		0/0
4RS		50		0/0
5RS		100		0/0
6RS		0		0/0
NEG SUDAN IV				
7RS		63		0/0
8RS		70		0/0
9RS		60		0/0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇

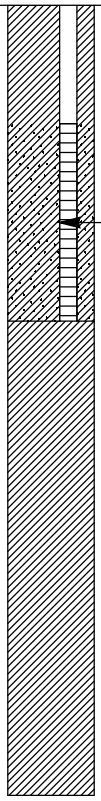
STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH11-18
DATE COMPLETED: 31 July 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS
	SW-SAND, trace fine gravel, loose, fine to medium grained, well graded, brown/gray, wet	
	CL-SILTY CLAY (TILL), little coarse sand to fine gravel, cohesive, gray, damp	43.50
	GW-CLAYEY GRAVEL, loose, fine to coarse grained, well graded, gray, wet	46.00
	END OF BOREHOLE @ 55.0ft BGS	55.00

TEMP MONITORING WELL



WELL DETAILS
Screened interval:
30.00 to 34.00ft BGS
Length: 4ft
Diameter: 0.5in
Slot Size: 0.010
Material: STAINLESS STEEL

Screened interval:
38.00 to 43.00ft BGS
Length: 5ft
Diameter: 2in
Slot Size: 0.010
Material: SCH 40 PVC

SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
10RS		90		0/0
11RS		100		0/0
12RS		100		0/0
13RS		100		0/0
14RS		52		0/0
15RS		100		0/0

36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH12-18
DATE COMPLETED: 18 May 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	TEMP MONITORING WELL	SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
2	SW-SAND (FILL), little fine gravel, loose, medium to coarse grained, well graded, tan/brown, dry	1.60		1GP		58		0.0 / 0.0
4	SM-SILTY SAND (FILL), fine grained, slightly consolidated, well graded, dark gray, moist	4.20						
6	SW-SAND (FILL), trace silt, loose, medium to coarse grained, well graded, tan/light brown, dry			2GP		28		0.0 / 0.0
8	ML-SILT (FILL), cohesive, dark brown, moist	7.90						
10	SW-SAND (FILL), trace fine gravel, loose, medium to coarse grained, little fine sand and silt, well graded, tan/light brown, dry	9.00		3GP		45		0.0 / 0.0
12								
14	SW-SAND (native), trace fine gravel, loose, medium to coarse grained, little fine sand and silt, well graded, tan/light brown, dry	14.00		4GP		53		0.0 / 0.0
16			WELL CASING					
18			BACKFILLED WITH BENTONITE CHIPS	5GP		45		0.0 / 0.0
20								
22	- wet at 22.0ft BGS			6GP 21.5-22.5 NEG SUDAN IV		43		0.0 / 0.0
24								
26				7GP		48		0.0 / 0.0
28								
30								
32			STAINLESS STEEL WELL SCREEN					
34	- iron staining at 34.0ft BGS							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH12-18
DATE COMPLETED: 18 May 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	TEMP MONITORING WELL	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
36	END OF BOREHOLE @ 36.0ft BGS	36.00	WELL DETAILS Screened interval: 30.50 to 34.50ft BGS Length: 4ft Material: STAINLESS STEEL					
38								
40								
42								
44								
46								
48								
50								
52								
54								
56								
58								
60								
62								
64								
66								
68								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH13-18
DATE COMPLETED: 18 May 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	TEMP MONITORING WELL	SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
	TOPSOIL/SILT	0.25						
2	SW-SAND (FILL), trace fine gravel, loose, medium to coarse grained, well graded, tan/brown, dry			1GP		50		0.0 / 0.0
	CL-CLAY (FILL), trace medium to coarse sand and silt, cohesive, dark brown, moist	3.10						
4	SW/GW-SAND/GRAVEL (native), loose, medium to coarse sand, fine gravel, well graded, tan/brown, dry	4.00						
6				2GP		60		0.0 / 0.0
8	SM-SILTY SAND, fine to medium grained, slightly consolidated, well graded, brown, moist	8.00 / 8.50						
10	SW/GW-SAND/GRAVEL, loose, medium to coarse sand, fine gravel, well graded, tan/brown, dry			3GP		58		0.0 / 0.0
12								
14				4GP		28		0.0 / 0.0
16			WELL CASING					
18	- wet at 18.5ft BGS		BACKFILLED WITH BENTONITE CHIPS	5GP 18-19' NEG SUDAN IV		55		0.0 / 0.0
20								
22				6GP		10		0.0 / 0.0
24								
26	- iron staining at 27.0ft BGS			7GP		30		0.0 / 0.0
28								
30				8GP				0.0 / 0.0
32	- gray at 31.8ft BGS		STAINLESS STEEL WELL SCREEN					
34				9GP				0.0 / 0.0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH13-18
DATE COMPLETED: 18 May 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	TEMP MONITORING WELL	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
36			WELL DETAILS Screened interval: 30.50 to 34.50ft BGS Length: 4ft Material: STAINLESS STEEL					
38				10GP				0.0 / 0.0
40	END OF BOREHOLE @ 40.0ft BGS	40.00						
42								
44								
46								
48								
50								
52								
54								
56								
58								
60								
62								
64								
66								
68								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH14-18
DATE COMPLETED: 17 September 2018
DRILLING METHOD: SONIC
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
2	SW-SAND (FILL), foundry type sand, loose, fine, medium and coarse grained, well graded, gray, dry							
4	- rebar at 4.5ft BGS			1RS		55		
6								
8	- concrete debris at 8.5ft BGS - iron rusted sand at 9.2ft BGS							
10								6.5/0
12								
14	- rubber, metal, plastic, wood pieces at 14.0ft BGS - wet at 15.0ft BGS	15.00		2RS		60		3.6/0
16	SW-SAND (FILL), trace fine gravel, medium to coarse grained, little fine grained, well graded, dark gray, wet							
18	- little silt, fine to medium grained, slightly consolidated from 17.5 to 18.5ft BGS							
	- pieces of slag at 19.0ft BGS							
20	- cobble at 19.5ft BGS		BACKFILLED WITH BENTONITE GROUT					
22								
24				3RS		70		
26	SW/GW-SILTY SAND/GRAVEL (FILL), loose, medium to coarse sand, little fine gravel, well graded, dark brown/dark gray, wet	26.00						
28	- copper metal at 27.0ft BGS - thin steel metal, steel/metal debris at 28.0ft BGS							7.2/0
30	- glass, wood, plastic at 28.5ft BGS							
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH14-18
DATE COMPLETED: 17 September 2018
DRILLING METHOD: SONIC
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
				4RS		95		
36								
38				35-40' -171				
	CL-CLAY (NATIVE), low plasticity, cohesive, brown/gray, dry	38.00						5.7/0
40	END OF BOREHOLE @ 40.0ft BGS	40.00						
42								
44								
46								
48								
50								
52								
54								
56								
58								
60								
62								
64								
66								
68								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH14A-18
DATE COMPLETED: 15 May 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	TEMP MONITORING WELL	SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
2	SW-SAND (FILL), loose, little fine sand, medium to coarse grained, little fine grained, well graded, dark gray/black, dry			1GP		53		0.0 / 0.0
4								
6	- concrete fragments at 5.0ft BGS			2GP		53		0.0 / 0.0
8	- no fine sand, little fine gravel, black at 8.0ft BGS							0.6
10	NO RECOVERY	10.00		3GP		48		0.0 / 0.0
12	SW-SAND (FILL), little fine gravel, medium to coarse grained, well graded, black, dry	12.00						
14				4GP		0		NA / NA
16	- wet at 15.7ft BGS		∇	15-16' NEG SUDAN IV				1.1
18			WELL CASING	5GP		38		0.0 / 0.0
20	SW-SAND (FILL), loose, little fine sand, medium to coarse grained, little fine grained, well graded, dark gray/black, dry	18.70	BACKFILLED WITH BENTONITE CHIPS					
22	SW-SAND (FILL), little fine gravel, medium to coarse grained, well graded, black, dry	20.50		6GP		5		0.0 / 0.0
24								
26				7GP		8		0.0 / 0.0
28								
30				8GP		8		0.0 / 0.0
32	SM-SILTY SAND (FILL), fine grained, consolidated, well graded, black, wet GW/SW-GRAVEL/SAND (NATIVE), little silt, fine gravel, medium to coarse sand, well graded, black/brown, wet	30.30 30.60						
34				9GP		55		0.0 / 0.0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH14A-18
DATE COMPLETED: 15 May 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	TEMP MONITORING WELL	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
36								
38			STAINLESS STEEL WELL SCREEN	10GP 38-40' NEG SUDAN IV		45		0.0 / 0.0
40	END OF BOREHOLE @ 40.0ft BGS	40.00	WELL DETAILS Screened interval: 35.50 to 39.50ft BGS Length: 4ft Material: STAINLESS STEEL					
42								
44								
46								
48								
50								
52								
54								
56								
58								
60								
62								
64								
66								
68								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH15-18
DATE COMPLETED: 5 September 2018
DRILLING METHOD: SONIC
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
	CONCRETE	0.50						
2	SW/GW-SAND/GRAVEL (FILL), roadbase, loose, fine, medium and coarse sand, fine gravel, well graded, tan/light brown, dry - 3-4" cobble at 2.0ft BGS	1.70		1RS		100		3.3/0
4	GW-SILTY/SANDY GRAVEL (FILL), slightly consolidated, fine to medium sand, well graded, dark brown, moist - 3-4" cobble at 3.0ft BGS	4.80						
6	- 3-4" cobble at 3.5ft BGS - 4-5" cobble at 4.0ft BGS	6.00						
8	CL-SANDY CLAY (FILL), some fine to medium sand, trace fine gravel, cohesive, dark brown, moist			2RS		80		
10	SM-SAND/SILT (FILL), foundry type sand, cohesive, fine to medium grained, gray							0.8/0
12	SW/GW-SILTY SAND/GRAVEL (NATIVE), loose, fine, medium and coarse sand, fine gravel, little coarse gravel, well graded, tan/brown, dry	11.00		3RS		100		
14								7.3/0
16			BACKFILLED WITH BENTONITE GROUT					
18				4RS		100		2.5/0
20	- increase in silt content at 20.5ft BGS							6.9/0
22				5RS		100		
24	- iron staining from 24.0 to 25.0ft BGS							
26	- 4-5" cobble at 25.8ft BGS - angular broken rock at 27.0ft BGS							
28	- 3-4" cobble at 27.6ft BGS	27.70	∇	6RS NEG SUDAN IV 25-30' -152/ 153		80		4.4/0
	GW-GRAVEL, little medium to coarse sand, loose, fine grained, brown, wet	29.30						
30	SM-CLAYEY SILT/SAND, trace fine gravel, cohesive, fine, medium and coarse grained, well graded, gray, wet	29.60						
32	SW-SAND, little silt, medium to coarse grained, well graded, gray, wet	30.00						
	END OF BOREHOLE @ 30.0ft BGS							
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH16-18
DATE COMPLETED: 4 September 2018
DRILLING METHOD: SONIC
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
	CONCRETE	0.50						
2	SM/GW-SAND/SILT/GRAVEL (FILL), slightly consolidated, fine, medium and coarse sand, fine gravel, well graded, tan/light brown, dry	1.50		1RS		100		
	- medium gray/dark brown at 1.0ft BGS	3.00						
4	GC-CLAYEY GRAVEL (FILL), little fine to medium sand, cohesive, dense, fine grained, dark brown, moist	4.50						10.2/0
6	SW/GW-SILTY SAND/GRAVEL (FILL), slightly consolidated, fine, medium and coarse sand, fine gravel, well graded							
8	SW-SAND (FILL), foundry type sand, slag, loose to slightly consolidated, fine to medium grained, well graded, gray/brown, dry	8.50		2RS		70		3.4/0
10	SM-SILTY SAND (FILL), foundry type sand, slag, consolidated, well graded, gray, moist	9.70						
	CL-SILTY/SANDY CLAY (FILL), cohesive, dense, dark brown, moist	11.50						
12	SW/GW-SAND/GRAVEL (NATIVE), loose, fine, medium and coarse sand, fine gravel, well graded			3RS		100		3.1/0
14								
16			BACKFILLED WITH BENTONITE GROUT					
18				4RS		100		2.6/0
20	- 6" cobble at 19.5ft BGS							
	- 3-4" cobble at 21.0ft BGS							
22	- 4-5" cobble at 22.0ft BGS			5RS		100		2.1/0
24								
26			∇	NEG SUDAN IV				
28				6RS 25-30 -151		100		1.8/0
30	END OF BOREHOLE @ 30.0ft BGS	30.00						
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇
CHEMICAL ANALYSIS ◯

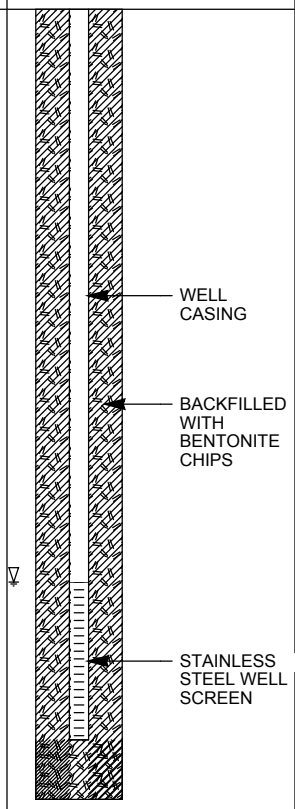
STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH18-19
DATE COMPLETED: 14 January 2019
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS
	TOPSOIL	0.17
	ML-SILT, trace clay, cohesive, dark brown, moist	1.08
2	SW/GW-SAND/GRAVEL, loose, fine, medium and coarse sand, fine gravel, well graded, dry	
4		
6		
8		
10		
12		
14	- wet at 14.5ft BGS	
16		
18		
20	END OF BOREHOLE @ 20.0ft BGS	20.00
22		
24		
26		
28		
30		
32		
34		

TEMP MONITORING WELL



WELL DETAILS
Screened interval:
14.50 to 18.50ft BGS
Length: 4ft
Material: STAINLESS STEEL

SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
1GP		42		0 / 0
2GP		54		0 / 0
3GP		58		0 / 0
4GP 14-15' NEG SUDAN IV		50		0 / 0
14.5-18.5				
5GP		54		0 / 0

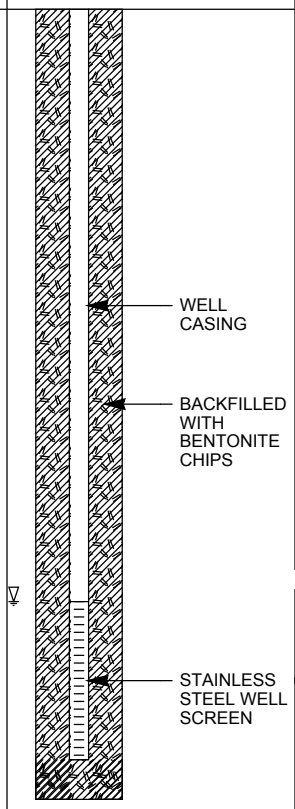
NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH19-19
DATE COMPLETED: 14 January 2019
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS
	ML-SILT, trace clay, cohesive, dark brown, moist	0.75
2	SW/GW-SAND/GRAVEL, loose, fine to coarse sand, fine gravel, well graded, tan/brown, dry	
4		
6		
8		
10	SW-SAND, little fine gravel, fine, medium and coarse grained, tan/brown, dry	10.00
12		
14	GW-GRAVEL, some medium to coarse sand, trace silt, loose, fine grained, well graded - wet at 15.0ft BGS	13.70
16		
18		
20	END OF BOREHOLE @ 20.0ft BGS	20.00
22		
24		
26		
28		
30		
32		
34		



WELL DETAILS
Screened interval:
15.00 to 19.00ft BGS
Length: 4ft
Material: STAINLESS STEEL

SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
1GP		71		0 / 0
2GP		60		0 / 0
3GP		56		0 / 0
4GP 14.5-15.5' NEG SUDAN IV		52		0 / 0
15-19'				
5GP		60		0 / 0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH20-18
DATE COMPLETED: 14 May 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	TEMP MONITORING WELL	SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
2	SW-SAND (FILL), loose, fine, medium and coarse grained, well graded, black, dry			1GP		63		0.0 / 0.0
4								
6	- increase in silt content at 6.0ft BGS			2GP		50		0.0 / 0.0
8								
10				3GP		40		0.0 / 0.0
12	- silty layers, white/iron stained/black from 11.0 to 12.0ft BGS							
14			WELL CASING	4GP		0		NA / NA
16			BACKFILLED WITH BENTONITE CHIPS					
18				5GP		15		0.0 / 0.0
20								
22				6GP		30		0.0 / 0.0
24								
26				7GP		30		0.0 / 0.0
28	GW/SW-GRAVEL/SAND (NATIVE), trace silt, loose, fine gravel, medium to coarse sand, trace fine sand, well graded, tan/brown, wet	27.30	∇	27-28' NEG SUDAN IV				
30			STAINLESS STEEL WELL SCREEN	8GP		35		0.0 / 0.0
32	END OF BOREHOLE @ 32.0ft BGS	32.00	WELL DETAILS Screened interval: 27.30 to 31.30ft BGS Length: 4ft Material: STAINLESS STEEL					
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH94-17
DATE COMPLETED: 20 December 2017
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
	TOPSOIL, grass - 1.5" coarse gravel piece at 0.3ft BGS	0.40						
2	SW-SAND (FILL), slag, foundry type sand, trace fine gravel, medium to coarse grained, well graded, dark gray/black, dry	2.20 2.50		1DP		88		0 / 0
		3.30						
4	SW-SAND (FILL), trace silt, fine to medium grained, well graded, brown, iron stained, dry	3.70						
	CL-SILTY CLAY (FILL), with coarse sand, cohesive, brown/gray, moist	5.50						
6	SW-SAND (FILL), with silt, medium to coarse grained, slightly consolidated, dark brown, moist			2DP		56		0 / 0
8	CL-CLAY (FILL), trace silt, trace fine gravel, cohesive, brown/olive green, moist							
10	SW-SAND (FILL), slag, foundry type sand, medium to coarse grained, well graded, brown/dark gray/orange/rust, dry - red clay brick at 6.0ft BGS							
12	- red clay brick at 7.7ft BGS			3DP		20		0 / 0
14				13-14.8 -016 NEG SUDAN IV				
	- glass pieces at 15.5ft BGS							
16								
18			BACKFILLED WITH BENTONITE CHIPS	4DP		20		0 / 0
20	- wet at 20.5ft BGS							
	SM-SILTY SAND (FILL), fine to medium grained, slightly consolidated, well graded, dark gray, wet	21.00 22.00						
22				5DP		20		0 / 0
	- red clay brick dust and wood pieces in medium sand at 21.5ft BGS							
24	NO RECOVERY							
	FILL, wood pieces/slag, slight sheen, slight odor	25.00 25.50		NEG SUDAN IV				
26	SM-SILTY SAND (FILL), fine to medium grained, slightly consolidated, well graded, dark gray, wet	26.50						
28		28.00		6DP		56		0 / 0
	GM-GRAVEL (FILL), with medium to coarse sand, loose, fine grained, well graded, dark gray, wet	29.00 29.50 29.80						
30	GM-GRAVEL (NATIVE), with medium to coarse sand, loose, fine grained, well graded, dark gray, wet	30.00						
32	LIMESTONE FRAGMENTS	32.00		7DP		68		0 / 0
	ML-SILT, trace clay, cohesive, light brown, moist							
34	CL-CLAY, trace silt, cohesive, gray, moist	34.70						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH94-17
DATE COMPLETED: 20 December 2017
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
36	GM-GRAVEL, with silt, few medium to coarse sand, fine grained, slightly consolidated, well graded	35.00						
38	ML-SILT, with fine to medium sand, trace coarse sand and fine gravel, gray, dry							
40	SW-SAND, with silt, fine, medium and coarse grained, slightly consolidated, well graded, gray, moist to dry							
	END OF BOREHOLE @ 35.0ft BGS							
42								
44								
46								
48								
50								
52								
54								
56								
58								
60								
62								
64								
66								
68								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH95-17
DATE COMPLETED: 19 December 2017
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
	WOOD PIECES	0.10						
	SLAG, with medium to coarse foundry type sand							
2	- sandy silty clay layer, black/brown staining at 1.3ft BGS	1.90		1DP		68		0 / 0
4	GM-SILTY GRAVEL (FILL), with fine to coarse sand, fine grained, slightly consolidated, gray, moist	5.00						0.4
6	GW-SANDY GRAVEL (FILL), trace silt, medium to coarse sand, fine grained, well graded, gray, dry			NEG SUDAN IV 5-7' -015 2DP		62		7 / 0
8	SM-SILTY SAND (FILL), trace coarse gravel, fine to medium grained, slightly consolidated well graded, dark gray/brown, moist	8.00						
10	- wood piece at 10.0ft BGS	10.00						
	NO RECOVERY							
12		12.50		3DP		56		0 / 0
	CL-SILTY CLAY (FILL), trace fine gravel, cohesive, low plasticity, dark brown/gray, moist	12.80						
14	ML-SILT (FILL), with clay, light gray, moist	13.50		NEG SUDAN IV				2
16	GM-SILTY GRAVEL (FILL), fine to coarse gravel, consolidated, well graded, dark brown/gray, moist	15.50						
	- 1" coarse sand/fine gravel layer, dark gray, wet, slight odor at 14.5ft BGS	17.00	BACKFILLED WITH BENTONITE CHIPS	4DP		48		0 / 0
18	SW-SILTY SAND (FILL), with fine gravel, trace coarse gravel, medium to coarse grained, slightly consolidated, well graded, dark gray, wet							
20	SW-SAND (FILL), with silt, trace fine gravel, loose, coarse grained, dark gray, wet, slight sheen, odor	21.00						1.7
22	- perched water at 17.5ft BGS	21.90		5DP		92		0 / 0
24	CL-SILTY CLAY (FILL), with fine gravel, trace medium to coarse sand, cohesive, low plasticity, dark brown, moist - 1" medium to coarse sand, dry at 21.5ft BGS							
26	SW-SAND (FILL), foundry type sand, loose, fine to medium grained, well graded, black, moist			NEG SUDAN IV				
28	- increase in coarse sand and silt content, slightly consolidated at 23.3ft BGS - rock fragments at 24.5ft BGS	28.00		6DP NEG SUDAN IV		96		0 / 0
30	- possible perched water from 25.0 to 28.0ft BGS - wood fragments at 25.5ft BGS							
32	- black fine to medium foundry type sand at 26.0ft BGS	32.00	∇					
	ML-SILT (NATIVE), with coarse sand, light brown, moist			7DP		90		0 / 0
34	SW-SAND, with fine gravel, trace coarse gravel, loose, medium to coarse grained,							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH95-17
DATE COMPLETED: 19 December 2017
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
	brown, wet	35.00						
36	END OF BOREHOLE @ 35.0ft BGS							
38								
40								
42								
44								
46								
48								
50								
52								
54								
56								
58								
60								
62								
64								
66								
68								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH96-18
DATE COMPLETED: 3 January 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
	GW-SILTY GRAVEL (FILL), fine to coarse grained, slight consolidated, well graded, brown, dry	1.40						
2	SW-SILTY SAND (FILL), foundry type sand, trace fine gravel, loose, fine, medium and coarse grained, dark gray/black, dry	2.20		1DP		68		0 / 0
4	CONCRETE FRAGMENTS/POWDER	5.30						
6	SW-SAND (FILL), little silt, trace fine gravel, loose, fine, medium and coarse grained, black (foundry type sand), dry							
8				2DP		58		0 / 0
10								
12	- moist from 12.0 to 13.0ft BGS			3DP		58		0 / 0
14				13-15' -025 NEG SUDAN IV				0.5
	NO RECOVERY	15.00	BACKFILLED WITH BENTONITE CHIPS					
16								
18				4DP		0		
20								
	SW-SAND (FILL), little silt, trace fine gravel, loose, fine, medium and coarse grained, black (foundry type sand), dry	21.00						
22				5DP		76		0 / 0
24	GM-SILTY GRAVEL (NATIVE), some medium to coarse sand, fine to coarse grained, slightly consolidated, well graded, dark gray/brown, moist	24.20 / 25.00						
26	SW-SAND, with fine gravel, loose, medium to coarse grained, well graded, brown, wet							
28				6DP		92		0 / 0
30	END OF BOREHOLE @ 30.0ft BGS	30.00						
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH97-17
DATE COMPLETED: 8 December 2017
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
	ML-SANDY SILT (FILL), medium to coarse sand, slightly cohesive, dark brown/dark gray, dry - slag/foundry type sand intermixed with silt at 0.5ft BGS	0.67		1DP		84		0 / 0
	SW-SILTY SAND (FILL), foundry type sand/slag, little fine gravel, loose, medium to coarse grained, well graded, dark gray, dry	3.40						
	SM-SILTY SAND (FILL), fine to medium grained, little coarse grained, slightly consolidated, well graded, dark gray, dry - red clay brick fragments at 6.0ft BGS	6.40						
	CL-SILTY CLAY (FILL), little fine gravel, cohesive, medium plasticity, dark brown/olive green, dry		BACKFILLED WITH BENTONITE CHIPS	2DP		80		0 / 0
	- coarse gravel pieces at 12.5ft BGS	12.50		3DP		60		0 / 0
	GM-SILTY GRAVEL (FILL), foundry type sand/slag, some coarse sand, fine grained, consolidated, well graded, dark gray, dry			13-15' -005/ 006 NEG SUDAN IV				
	END OF BOREHOLE @ 15.0ft BGS	15.00						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH98-18
DATE COMPLETED: 14 December 2018
DRILLING METHOD: JACKHAMMER
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
	ML-SILT (Topsoil), trace clay, slightly cohesive, brown, moist	0.33		1JH		58		0 / 0
2	CL-CLAY, trace silt, cohesive, low to medium plasticity, brown, moist - increase in fine gravel content at 3.0ft BGS		BACKFILLED WITH BENTONITE CHIPS	2JH 2-5.5' -150		46		0 / 0
4				3JH		44		17.1 / 0
6	- REFUSAL at 5.5ft BGS END OF BOREHOLE @ 5.5ft BGS	5.50						
8								
10								
12								
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH99-18
DATE COMPLETED: 14 December 2018
DRILLING METHOD: JACKHAMMER
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
	ML-SILT (Topsoil), trace clay, cohesive, brown, moist	0.42		1JH		46		0 / 0
2	CL-CLAY, trace silt, little fine gravel, low plasticity, brown, moist			2JH		71		0 / 0
4			BACKFILLED WITH BENTONITE CHIPS	3JH		67		0 / 0
6				4JH		75		12.2 / 0
8				6-9.5' -151				
				5JH		39		5.9 / 0
	- REFUSAL at 9.5ft BGS	9.50						
10	END OF BOREHOLE @ 9.5ft BGS							
12								
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH100-18
DATE COMPLETED: 14 December 2018
DRILLING METHOD: JACKHAMMER
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
	ML-SILT (Topsoil), trace clay, slightly cohesive, brown, moist	0.33		1JH		83		0 / 0
2	CL-CLAY, trace silt, little fine gravel, low to medium plasticity, brown, moist			2JH		92		
4			BACKFILLED WITH BENTONITE CHIPS					1.6 / 0
	- trace fine to medium sand, gray staining at 4.7ft BGS			3JH		96		7.2 / 0
6	- trace fine to medium sand, gray staining at 5.5ft BGS			4-7.5' -152				
				4JH		67		
	- REFUSAL at 7.5ft BGS	7.50						14.6 / 0
8	END OF BOREHOLE @ 7.5ft BGS							
10								
12								
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH101-17
DATE COMPLETED: 7 December 2017
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
	CL-SILTY CLAY (FILL), cohesive, low plasticity, brown, moist	0.25						
	CONCRETE/GRAVEL PIECES	0.67						
	GC-GRAVELLY CLAY (FILL), fine gravel, cohesive, low plasticity, brown, moist	1.20						
2				1DP		58		0 / 0
4	SW-SILTY SAND (FILL), with fine gravel fragments, medium to coarse grained, loose, well graded, brown, wet - wet at 1.3ft BGS							
6	- coarse gravel piece at 6.0ft BGS - increase in silt content at 6.4ft BGS							
	SW-SILTY SAND (FILL), trace clay, fine to medium grained, consolidated, well graded, dark brown, wet	7.30	BACKFILLED WITH BENTONITE CHIPS	2DP				0 / 0
8								
10								
12				3DP				0 / 0
14	- increase in fine to coarse gravel content at 14.6ft BGS	15.00						
16	END OF BOREHOLE @ 15.0ft BGS							
18								
20								
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH102-17
DATE COMPLETED: 7 December 2017
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
	TOPSOIL, grass	0.08						
2	CL-SILTY CLAY (FILL), some fine gravel and coarse sand, cohesive, low plasticity, dark brown, dry			1DP		82		0 / 0
4	- concrete pieces at 4.1ft BGS - slag fragments at 4.8ft BGS	4.60						
6	SW-SILTY SAND (FILL), little fine gravel, medium to coarse grained, slightly consolidated, dark gray, dry - wet at 6.5ft BGS		BACKFILLED WITH BENTONITE CHIPS	4.5-5.5 -004 NEG SUDAN IV 2DP		52		0 / 0
8								
10	- red clay brick and slag fragments at 9.4ft BGS							
12	- fine gravel sized slag pieces at 11.4ft BGS SW-SILTY SAND (NATIVE), little fine gravel, medium to coarse grained, slightly consolidated, dark gray, wet	11.50		3DP		70		0 / 0
14								
	END OF BOREHOLE @ 15.0ft BGS	15.00						
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH103-17
DATE COMPLETED: 7 December 2017
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
	TOPSOIL, grass, moist	0.17						
2	CL-SILTY CLAY (FILL), trace coarse sand and fine gravel, cohesive, low to medium plasticity - cobble at 2.5ft BGS			1DP		82		0 / 0
4				3-5' -002 NEG SUDAN IV				
	- wet at 5.0ft BGS	5.00	∇					
6	SW-SILTY SAND (FILL), trace fine gravel, medium to coarse grained, slightly consolidated, well graded, dark brown, moist - red clay brick at 6.5ft BGS		BACKFILLED WITH BENTONITE CHIPS	2DP		38		0 / 0
8	- concrete pieces at 7.1ft BGS							
10								
12	- fine gravel fragments from 11.2 to 11.5ft BGS - coarse gravel pieces at 11.9ft BGS			3DP		82		0 / 0
14								
	END OF BOREHOLE @ 15.0ft BGS	15.00						
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH104-17
DATE COMPLETED: 7 December 2017
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
	TOPSOIL	0.17						
	CL-SILTY CLAY (FILL), trace fine gravel and coarse sand, cohesive, brown, dry - concrete pieces at 0.9ft BGS	1.00		1DP		56		0 / 0
	SW-SILTY SAND (FILL), trace fine gravel, fine to medium grained, slightly consolidated, well graded, brown, dry - wet at 5.0ft BGS		BACKFILLED WITH BENTONITE CHIPS	3-5' -003 NEG SUDAN IV 2DP		48		0 / 0
	- conglomerate at 9.5ft BGS	9.80						
	SW-SAND (NATIVE), trace fine gravel, medium to coarse grained, well graded, brown, wet	10.40						
	SP-SAND, medium grained, trace coarse grained, poorly graded, tan, wet	12.20		3DP		70		0 / 0
	SW-SAND, with fine gravel, loose, medium to coarse grained, well graded, tan/brown							
	END OF BOREHOLE @ 15.0ft BGS	15.00						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH105-18
DATE COMPLETED: 17 January 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
2	SW-GRAVELLY SAND (FILL), with fine gravel, trace coarse gravel, fine to medium grained, slightly consolidated, well graded, brown, dry	3.00		1DP		60		0 / 0
4	SW-SILTY SAND (FILL), fine to medium grained, slightly consolidated, well graded, dark brown, dry - 0.2' increase in silt content at 4.0ft BGS	4.20						
6	GM-SILTY GRAVEL (FILL), with medium to coarse sand, fine grained, slightly consolidated, well graded, orangish brown, dry	7.20		2DP		58		0 / 0
8	GW-SANDY GRAVEL (FILL), loose, medium to coarse sand, fine to coarse grained, well graded, light brown, dry - red staining at 8.1ft BGS	8.10						
10	SM-SILTY SAND (FILL), fine grained, consolidated, well graded, gray, moist - 0.4' dry at 8.8ft BGS	9.80 10.50	BACKFILLED WITH BENTONITE CHIPS	8.5-10.5 -047 NEG SUDAN IV				
12	GW-SANDY GRAVEL (FILL), medium to coarse sand, fine grained, slightly consolidated, well graded, light brown/gray, dry - orange staining at 10.4ft BGS			3DP		68		0 / 0
14	GW-SANDY GRAVEL (NATIVE), loose, medium to coarse sand, fine grained, trace coarse grained, well graded, light brown, dry							
16								
18				4DP		74		0 / 0
20	END OF BOREHOLE @ 20.0ft BGS	20.00						
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH106-18
DATE COMPLETED: 17 January 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
	GW-SANDY GRAVEL, loose, medium sand, fine grained, well graded, brown, dry							
2	SW-SAND, fine to medium grained, slightly consolidated, well graded, light brown, dry	2.30		1DP		56		0 / 0
4	SM-SILTY SAND, fine to medium grained, consolidated, well graded, dark brown, dry	2.60						
6	GW-GRAVEL, loose, coarse grained, with fine grained, well graded, light gray, dry - coarse gravel blinded sample from 6.1 to 10.0ft BGS	5.60		2DP		26		0 / 0
8								
10	GW-SANDY GRAVEL, fine to medium sand, fine to coarse gravel, slightly consolidated, well graded, dark gray, moist, hydrocarbon odor	10.00						
12			BACKFILLED WITH BENTONITE CHIPS	3DP		54		0 / 0
14	- 0.8' dry material, hydrocarbon odor at 14.2ft BGS			13-15' -048 NEG SUDAN IV				8
16	- 0.3' increase in sand content, hydrocarbon odor at 15.0ft BGS - dry at 15.5ft BGS							1.8
18	- quartz pieces at 18.5ft BGS			4DP		80		0 / 0
20	- fine, medium and coarse sand, moist at 18.8ft BGS	19.00						
22	GW-SANDY GRAVEL, medium to coarse sand, fine to coarse grained, slightly consolidated, well graded, light brown, dry - moist, light gray staining, hydrocarbon odor at 20.0ft BGS							0.3
24				5DP		70		0 / 0
26	END OF BOREHOLE @ 25.0ft BGS	25.00						
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH107-18
DATE COMPLETED: 16 January 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
2	GW-SANDY GRAVEL (FILL), with medium sand and coarse gravel, loose, fine grained, well graded, brown, dry - piece of coarse gravel at 2.2ft BGS	2.00		1DP		72		0 / 0
4	SW-SAND (FILL), fine to medium grained, trace coarse grained, slightly consolidated, well graded, dark gray, moist	3.40						
6	GM-SILTY GRAVEL (FILL), with fine to medium sand, fine grained, slightly consolidated, well graded, light gray/brown, dry - piece of coarse gravel at 4.0ft BGS - red clay brick powder and coarse gravel pieces at 5.0ft BGS	6.00		2DP		30		0 / 0
8	- decrease in silt content at 5.0ft BGS							
10	GW-SANDY GRAVEL (FILL), few silt, medium to coarse sand, fine grained, trace coarse grained, slightly consolidated, well graded, orangish brown, dry		BACKFILLED WITH BENTONITE CHIPS					
12	- increase in fine grained content at 12.3ft BGS	12.50		NEG SUDAN IV 3DP 12-14' -046		42		0 / 0
	GW-SANDY GRAVEL (FILL), loose, fine to medium sand, fine grained, well graded, dark gray, moist, concrete pieces and foundry type sand	13.00						
14		14.00						
16	GM-SILTY GRAVEL (FILL), trace medium to coarse sand, fine grained, slightly consolidated, well graded, dark brown, moist							
18	SW-GRAVELLY SAND (NATIVE), loose, fine gravel, medium to coarse grained, well graded, light brown, dry - coarse gravel pieces at 17.0ft BGS			4DP		80		0 / 0
20	- coarse gravel pieces at 17.5ft BGS - coarse gravel pieces at 20.0ft BGS	20.00						
	END OF BOREHOLE @ 20.0ft BGS							
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH108-18
DATE COMPLETED: 12 January 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
	ASPHALT	0.17						
	SW-SAND (FILL), trace silt, trace fine gravel, loose, fine, medium and coarse grained, well graded, brown, moist - red clay brick fragments from 1.2 to 1.4ft BGS	1.00		1DP		62		0 / 0
	SW-SAND (FILL), foundry type sand, loose, fine to medium grained, some coarse grained, well graded, dark gray/dark brown, moist - 1/2" white chalk-like material at 3.2ft BGS - 1/2" orange/red chalk-like material at 3.4ft BGS - piece of coarse gravel at 7.5ft BGS - increase in coarse sand content at 7.6ft BGS - increase in fine gravel content at 8.3ft BGS		BACKFILLED WITH BENTONITE CHIPS	2DP 7-9' -043 NEG SUDAN IV		72		0 / 0
	GW/SW-GRAVEL/SAND (NATIVE), loose, fine gravel, medium to coarse sand, well graded, tan/light brown, dry	9.00		3DP		80		0 / 0
	END OF BOREHOLE @ 15.0ft BGS	15.00						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH109-18
DATE COMPLETED: 16 January 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
	SW-SAND (FILL), trace fine gravel, loose, medium to coarse grained, little fine grained, well graded, brown/dark gray, dry	1.40						
2	SW-SAND (FILL), foundry type sand, loose, fine to medium grained, well graded, black/dark gray, dry - 2" thick, some coarse grained, trace fine gravel at 4.2ft BGS - fine to medium grained, black at 4.4ft BGS			1DP		68		0 / 0
4								
6	SW-SAND (FILL), foundry type sand, trace fine gravel, loose, medium to coarse grained, trace fine grained, well graded, dark gray/black, dry	6.00	BACKFILLED WITH BENTONITE CHIPS	2DP		60		0 / 0
8				7.5-9.5 -044 NEG SUDAN IV				
10	SW-SAND (NATIVE), trace fine gravel, loose, fine, medium and coarse grained, well graded, light brown/tan, dry	9.50						
12				3DP		76		0 / 0
14								
	END OF BOREHOLE @ 15.0ft BGS	15.00						
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH110-18
DATE COMPLETED: 16 January 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34	GW-SANDY GRAVEL (FILL), medium to coarse sand, fine grained, slightly consolidated, well graded, light gray/brown, dry - concrete pieces at 1.0ft BGS - 2' fine to medium sand, brown at 2.5ft BGS - concrete pieces at 3.0ft BGS - concrete pieces at 4.8ft BGS - concrete pieces at 6.0ft BGS	6.10		1DP		60		0 / 0
	SM-SILTY SAND (FILL), fine to medium grained, trace coarse grained, consolidated, well graded, dark brown, moist, hydrocarbon odor - 0.3' increase in fine gravel pieces at 8.0ft BGS	8.30		6.3-8.3 -045 NEG SUDAN IV 2DP		64		0 / 0 4.3
	GW-SAND GRAVEL (NATIVE), with medium to coarse sand, fine to coarse grained, slightly consolidated, well graded, light gray/dark gray, dry, hydrocarbon odor		BACKFILLED WITH BENTONITE CHIPS					6.2 3.6
				3DP		68		0 / 0
	GW-SANDY GRAVEL, medium to coarse sand, fine to coarse grained, slightly consolidated, well graded, light brown, dry - increase in fine sand content at 17.0ft BGS	15.00		4DP		76		0 / 0
	END OF BOREHOLE @ 20.0ft BGS	20.00						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH111-18
DATE COMPLETED: 11 January 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
	ASPHALT	0.17						
	SW-SAND (FILL), with silt, few fine gravel, fine, medium and coarse grained, slightly cohesive, well graded, light brown, dry	1.20						
2				1DP		60		0 / 0
	SW-SAND (FILL), foundry type sand, trace fine gravel, little silt, medium to coarse grained, well graded, dark gray, dry - glass pieces from 2.0 to 3.0ft BGS - increase in silt content from 3.0 to 5.0ft BGS							
4								
6								
8			BACKFILLED WITH BENTONITE CHIPS	2DP 7.5-9.5 -042 NEG SUDAN IV		58		0 / 0
	GW/SW-GRAVEL/SAND (NATIVE), loose, fine gravel, medium to coarse sand, well graded, tan/brown, dry - possible perched water from 10.5 to 11.0ft BGS	9.50						
10								
12				3DP				0 / 0
14								
	END OF BOREHOLE @ 15.0ft BGS	15.00						
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH112-17
DATE COMPLETED: 19 December 2017
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
	SW-SAND (FILL), little fine gravel, medium to coarse grained, well graded, brown, dry							
2	- black foundry type sand at 2.0ft BGS			1DP		80		0 / 0
4	- slag fragments at 5.1ft BGS							
6	- orange/black at 7.2ft BGS			2DP		62		0 / 0
8								
10								
12	- light green rock fragment at 12.0ft BGS			3DP		72		0 / 0
14			BACKFILLED WITH BENTONITE CHIPS	13-15' -014 NEG SUDAN IV				
16	- wood fragments at 15.8ft BGS							
18				4DP		70		0 / 0
20	GM-SILTY GRAVEL (FILL), little medium to coarse sand, fine grained, consolidated, medium brown, dry	19.80 20.10						
22	SW-SAND (FILL), foundry type sand, little fine gravel, medium to coarse grained, well graded, brown, dry			5DP		72		0 / 0
24	- wet at 20.5ft BGS							
	GW-GRAVEL (NATIVE), some coarse sand, loose, fine grained, trace fine grained, well graded, brown/tan, wet	24.60						
26	- fossiliferous limestone from 26.0 to 26.4ft BGS							
28				6DP		74		0 / 0
30	END OF BOREHOLE @ 30.0ft BGS	30.00						
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH113-18
DATE COMPLETED: 3 January 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
2	SW-SAND (FILL), foundry type sand, trace silt, trace fine gravel, loose, fine, medium and coarse grained, dark gray/brown, dry - 6" sand at 1.0ft BGS - foundry type sand at 1.5ft BGS			1DP		66		0 / 0
8	- sand, with fine gravel, dark brown at 8.4ft BGS - rock fragments/powder at 8.5ft BGS		BACKFILLED WITH BENTONITE CHIPS	2DP		66		0 / 0
10				9-11' -026 NEG SUDAN IV				
12	SW-SAND (NATIVE), little fine to coarse gravel, loose, fine to medium grained, with coarse grained, light brown/tan, dry	11.00		3DP		100		0 / 0
14	END OF BOREHOLE @ 15.0ft BGS	15.00						
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

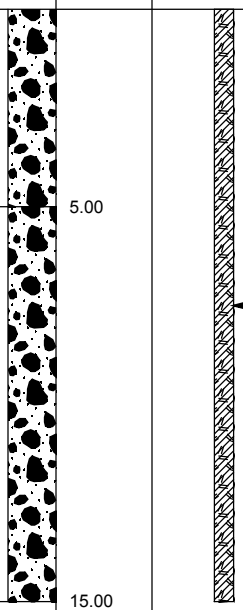
CHEMICAL ANALYSIS

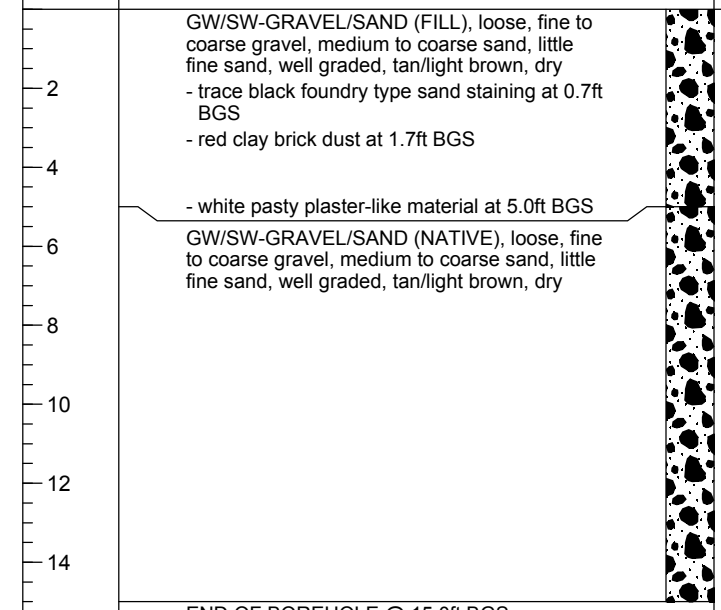
STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH114-18
DATE COMPLETED: 11 January 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
	GW/SW-GRAVEL/SAND (FILL), loose, fine to coarse gravel, medium to coarse sand, little fine sand, well graded, tan/light brown, dry - trace black foundry type sand staining at 0.7ft BGS - red clay brick dust at 1.7ft BGS			1DP		52		0 / 0
	- white pasty plaster-like material at 5.0ft BGS	5.00		3-5' -040/ 041 NEG SUDAN IV				
	GW/SW-GRAVEL/SAND (NATIVE), loose, fine to coarse gravel, medium to coarse sand, little fine sand, well graded, tan/light brown, dry		BACKFILLED WITH BENTONITE CHIPS	2DP		58		0 / 0
				3DP		60		0 / 0
	END OF BOREHOLE @ 15.0ft BGS	15.00						





NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH115-18
DATE COMPLETED: 11 January 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
2	SM-SILT/SAND (FILL), fine grained, trace medium to coarse grained, consolidated, well graded, brown, moist - pieces of coarse gravel at 0.1ft BGS	2.10		1DP		86		0 / 0
4	SW-SAND (FILL), trace silt, fine to medium grained, slightly consolidated, well graded, gray, moist - increase in coarse sand and fine gravel content at 4.8ft BGS			3-5' -039 NEG SUDAN IV				
6	- moist at 5.0ft BGS - perched water in gray/dark gray loose sand at 6.5ft BGS							
8			BACKFILLED WITH BENTONITE CHIPS	2DP		70		0 / 0
	- fine gravel and coarse sand pieces at 8.7ft BGS	8.70						
10	CL-SILTY CLAY (FILL), cohesive, low plasticity, dark brown, moist	9.80						
12	GW/SW-GRAVEL/SAND (NATIVE), loose, fine gravel, medium to coarse sand, trace fine sand, well graded, tan/light brown, dry			3DP		76		0 / 0
14	- pieces of white coarse gravel at 14.6ft BGS	15.00						
	END OF BOREHOLE @ 15.0ft BGS							
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH116-18
DATE COMPLETED: 11 January 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
2	SW-SAND (FILL), foundry type sand, trace silt, trace fine gravel, medium to coarse grained, little fine grained, well graded, dark gray/black, moist - tan/light brown at 0.5ft BGS - black/dark gray/brown at 1.5ft BGS - orange/red fragments at 2.2ft BGS - increase in silt content at 2.8ft BGS - slag fragments at 3.3ft BGS - 1" red clay brick fragments at 5.7ft BGS			1DP		68		0 / 0
4								
6		6.20						
	SM-SILT/SAND (FILL), fine grained, little medium grained, consolidated, well graded, brown, moist	6.40						
8				2DP		36		0 / 0
10	SW-SAND (FILL), foundry type sand, trace silt, trace fine gravel, medium to coarse grained, little fine grained, well graded, dark gray/black, moist		BACKFILLED WITH BENTONITE CHIPS					
12				11-13' -038 3DP		64		0 / 0
	SW-SAND (NATIVE), with fine gravel, loose, medium to coarse grained, well graded, light brown/tan, dry	13.00						
14								
16	- perched water from 16.0 to 17.0ft BGS - rock fragments at 17.0ft BGS			NEG SUDAN IV 4DP		60		0 / 0
18	- rock fragments at 18.4ft BGS - white rock fragments at 19.5ft BGS							
20	END OF BOREHOLE @ 20.0ft BGS	20.00						
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH117-18
DATE COMPLETED: 18 January 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
	GW-SANDY GRAVEL (FILL), with medium to coarse sand, fine grained, slightly consolidated, well graded, brown, dry	1.00						
2	- crushed quartz pieces, light gray staining at 0.7ft BGS	1.80		1DP		76		0 / 0
4	SW-SAND (FILL), with fine gravel, medium to coarse grained, slightly consolidated, well graded, dark brown, dry	4.00						
6	SW-GRAVELLY SAND (FILL), fine gravel, medium grained, with coarse grained, consolidated, well graded, dark brown, dry	5.70						
	CONCRETE PIECES			2DP		66		0 / 0
8	SM-SILTY SAND (FILL), fine to medium grained, consolidated, well graded, light gray, dry							
10	- crushed tan brick at 9.5ft BGS - 0.3' increase in medium grained content at 9.7ft BGS	10.20	BACKFILLED WITH BENTONITE CHIPS	10-12' -050 NEG SUDAN IV 3DP		70		0 / 0
12	CL-SANDY CLAY (FILL), trace fine gravel, compact, fine to medium grained, dark brown, dry	12.00						
14	GW-SANDY GRAVEL (NATIVE), loose, medium to coarse sand, fine grained, trace coarse grained, well graded, light brown, dry - 1' dark brown staining at 15.0ft BGS							
16								
18				4DP		74		0 / 0
20	END OF BOREHOLE @ 20.0ft BGS	20.00						
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH118-18
DATE COMPLETED: 18 January 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
	GP-GRAVEL (FILL), road base	0.60						
2	SW-GRAVELLY SAND (FILL), fine gravel, fine to medium grained, slightly consolidated, well graded, gray, dry	2.00		1DP		88		0 / 0
4	SW-SAND (FILL), foundry type sand, fine to medium grained, trace coarse grained, consolidated, well graded, dark brown, dry			3-5' -051/ 052 NEG SUDAN IV				
6	- with fine gravel pieces, light gray staining at 5.8ft BGS - glass pieces at 6.7ft BGS							
8				2DP		74		0 / 0 0.1
10	- 0.2' clay, with fine sand at 9.0ft BGS - 0.3' gravelly sand at 9.7ft BGS		BACKFILLED WITH BENTONITE CHIPS					
12	SM-SILTY SAND (FILL), medium grained, trace coarse grained, consolidated, well graded, brown, dry	10.60 12.00		3DP		78		0 / 0
14	GW-SANDY GRAVEL (NATIVE), loose, medium to coarse sand, fine grained, well graded, light brown, dry - increase in fine sand content at 13.0ft BGS							
16	- crushed quartz at 14.7ft BGS - piece of quartz at 15.5ft BGS							
18				4DP		72		0 / 0
20	END OF BOREHOLE @ 20.0ft BGS	20.00						
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH119-18
DATE COMPLETED: 18 January 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
	GW-SANDY GRAVEL (FILL), loose, fine to medium sand, fine grained, well graded, gray, dry	1.10						
2	- 0.3' gray clay mix at 1.1ft BGS	2.00		1DP		86		0 / 0
	SM-SILTY SAND (FILL), trace fine gravel, medium grained, with coarse grained, slightly consolidated, well graded, dark gray/black, dry	3.40						
4								
	GW-SANDY GRAVEL (FILL), medium to coarse sand, fine grained, slightly consolidated, well graded, light brown/gray, dry							
6	- rock at 3.2ft BGS							
	SM-SILTY SAND (FILL), fine grained, slightly consolidated, well graded, gray, dry	7.00		2DP		56		0 / 0
8	- 0.4' wet at 4.0ft BGS							
	- 0.3' fine sandy gravel at 4.8ft BGS							
10	- sandy gravel, with orange staining at 5.3ft BGS	10.00	BACKFILLED WITH BENTONITE CHIPS	9-11' -053 NEG SUDAN IV				
	- 0.8' wet at 6.0ft BGS	11.00						
12	SM-SILTY SAND (FILL), with fine gravel, medium to coarse grained, slightly consolidated, dark brown, dry			3DP		42		0 / 0
	- glass pieces at 10.0ft BGS							
14	CL-SANDY CLAY (FILL), trace fine gravel, compact, fine to medium sand, slightly cohesive, dark brown, dry							
16	- rock pieces at 11.0ft BGS							
	GW-SANDY GRAVEL (NATIVE), loose, fine to medium sand, with coarse sand, fine grained, well graded, light brown, dry			4DP		36		0 / 0
18								
20	END OF BOREHOLE @ 20.0ft BGS	20.00						
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH120-18
DATE COMPLETED: 19 January 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
	GM-SILTY GRAVEL (FILL), with medium to coarse sand, loose, fine grained, well graded, dark brown, dry, grass	0.80						
2	SW-GRAVELLY SAND (FILL), fine gravel, medium to coarse grained, trace fine grained, slightly consolidated, well graded, dark brown, dry			1DP		80		0 / 0
4	- silty sandy clay at 2.2ft BGS - rock at 2.5ft BGS - light brown staining at 3.3ft BGS - 0.3' quartz rock at 3.6ft BGS	4.00						
6								
8	CL-SANDY CLAY (FILL), trace fine gravel, medium to coarse sand, slightly cohesive, low plasticity, dark brown, dry - 1' increase in fine sand content at 6.0ft BGS		BACKFILLED WITH BENTONITE CHIPS	2DP 8-10' -055 NEG SUDAN IV		74		0 / 0
10	GW-SANDY GRAVEL (NATIVE), loose, medium to coarse sand, fine grained, well graded, light brown, dry	10.00						
12	- rock at 12.0ft BGS			3DP		68		0 / 0
14	- crushed rock at 13.5ft BGS - rock at 14.6ft BGS	15.00						
16	END OF BOREHOLE @ 15.0ft BGS							
18								
20								
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH121-18
DATE COMPLETED: 19 January 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
	SW-GRAVELLY SAND (FILL), loose, fine gravel, medium to coarse grained, well graded, light brown, dry - fine sand, tan at 1.1ft BGS - light red staining at 3.0ft BGS - dark brown foundry type sand at 3.2ft BGS - glass at 3.8ft BGS			1DP		100		0 / 0
4	GW-SANDY GRAVEL (FILL), loose, medium to coarse sand, fine grained, well graded, light brown, dry	3.90						
8				2DP		34		0 / 0
	- dark brown staining at 9.0ft BGS	9.10		8-10' -054 NEG SUDAN IV				
10	CL-SANDY CLAY (FILL), medium to coarse sand, slightly cohesive, low plasticity, dark brown, moist - light orange staining at 9.7ft BGS	10.00	BACKFILLED WITH BENTONITE CHIPS					
12	GW-SANDY GRAVEL (NATIVE), loose, medium to coarse sand, fine grained, well graded, light brown, dry - dark iron staining at 13.0ft BGS			3DP		40		0 / 0
16	SW-SAND, loose, fine to medium grained, with coarse grained, well graded, brown, dry	16.00		4DP		72		0 / 0
18	GW-SANDY GRAVEL, loose, fine grained, trace coarse grained, well graded, light brown, dry	18.50						
20	END OF BOREHOLE @ 20.0ft BGS	20.00						
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH122-18
DATE COMPLETED: 31 May 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
	GP-GRAVEL (FILL), fine to coarse grained	0.17						
	ML-SANDY SILT (FILL), fine sand, slightly cohesive, black, moist - wood pieces at 1.0ft BGS	0.92		0-2' -114 1GP		50		0.0 / 0
2								
	SW-SILTY SAND (FILL), fine, medium and coarse sand, trace fine gravel, slightly consolidated, well graded, brown, moist - black at 3.6ft BGS - brown at 4.3ft BGS							
4								
6				2GP 6-8' -115		75		0.0 / 0
8								
	SW-SAND (NATIVE), trace fine gravel, loose, medium to coarse grained, well graded, tan/brown, dry	8.30	BACKFILLED WITH BENTONITE CHIPS	3GP		0		-- / --
10								
12								
14				4GP		55		0.0 / 0
16								
18				5GP		15		0.0 / 0
	- wet at 19.8ft BGS			NEG SUDAN IV				
20	END OF BOREHOLE @ 20.0ft BGS	20.00						
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH125-18
DATE COMPLETED: 30 May 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
	SW-SAND (FILL), loose, medium to coarse grained, well graded, brown, dry	0.42		0-2' -104/ 105				
2	ML-SANDY SILT (FILL), cohesive, fine to medium sand, well graded, dark gray, dry - silt section, moist from 1.0 to 1.4ft BGS - increase in coarse sand and fine gravel content at 1.5ft BGS - red clay brick fragments at 3.5ft BGS			1GP		88		0.0 / 0
4								
6				2GP		15		0.0 / 0
8				7-9' -106				
	SW-SAND (NATIVE), little fine gravel, loose, medium to coarse grained, well graded, tan/brown, dry	9.00						
10			BACKFILLED WITH BENTONITE CHIPS	3GP		45		0.0 / 0
12								
14				4GP		68		0.0 / 0
16								
18				5GP NEG SUDAN IV		63		0.0 / 0
	- wet at 19.0ft BGS							
	GW-GRAVEL, some medium to coarse sand, loose, fine grained, well graded, brown/tan, wet	19.50 20.00						
20	END OF BOREHOLE @ 20.0ft BGS							
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH126-18
DATE COMPLETED: 30 May 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
	SW-SAND (FILL), trace fine sand, loose, medium to coarse grained, well graded, dark gray/gray, dry	1.20		0-2' -100				
2	ML-SANDY SILT (FILL), cohesive, black, moist	2.30		1GP		78		0.0 / 0
	SW-SILTY SAND (FILL), slightly consolidated, fine, medium and coarse grained, well graded, dark brown/dark gray, moist							
4								
6				2GP		30		0.0 / 0
8								
10				3GP		30		0.0 / 0
			BACKFILLED WITH BENTONITE CHIPS	10-12' -101				
12	ML-SILT (FILL), very soft, cohesive, dark gray, moist	12.00						
14				4GP		10		0.0 / 0
				NEG SUDAN IV				
16	- grayish white at 17.0ft BGS							
18				5GP		50		0.0 / 0
20	- firm, gray at 20.0ft BGS							
				6GP		100		0.0
22	- REFUSAL at 22.5ft BGS	22.50						
	END OF BOREHOLE @ 22.5ft BGS							
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH127-18
DATE COMPLETED: 30 May 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
	SW-SAND (FILL), little fine gravel, loose, medium to coarse grained, well graded, brown, dry	0.83		0-2' -109				
2	- black at 0.17ft BGS			1GP		88		0.0 / 0
	ML-SILT (FILL), trace fine sand, cohesive, dark gray, moist	3.00						
4	- rock/concrete pieces at 1.5ft BGS	4.00						
	SM-SILT/SAND (FILL), little fine gravel and coarse sand, fine grained, consolidated, tan, moist							
6				2GP		28		0.0 / 0
	ML-SANDY SILT (FILL), medium to coarse grained, cohesive, dark brown, dry							
8				7-9' -110				
	SW-SAND (NATIVE), some fine gravel, loose, fine, medium and coarse grained, well graded, tan/brown, dry	9.00	BACKFILLED WITH BENTONITE CHIPS					
10				3GP		38		0.0 / 0
12								
14				4GP		55		0.0 / 0
16								
18				5GP		43		0.0 / 0
20	END OF BOREHOLE @ 20.0ft BGS	20.00						
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH128-18
DATE COMPLETED: 30 May 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
	SW-SAND (FILL), loose, medium to coarse grained, well graded, brown, dry	1.70		0-2' -107				
2	ML-SILT (FILL), trace fine sand, soft, cohesive, black, moist			1GP		75		0.0 / 0
4	- red clay brick at 3.8ft BGS	4.20						
	CL-SILTY CLAY (FILL), cohesive, medium plasticity, brown, moist	4.50						
6	ML-SILT (FILL), trace fine sand, soft, cohesive, black, moist			2GP		78		0.0 / 0
8	- light gray/chalky white at 8.5ft BGS							
10				3GP		50		0.0 / 0
12								
14				4GP 13-15' -108		25		0.0 / 0
	- rock/concrete fragments/powder at 15.1ft BGS							
16								
18				5GP		95		0.0 / 0
20								
22			BACKFILLED WITH BENTONITE CHIPS	6GP		100		0.0 / 0
24								
26		26.30		7GP		100		0.0 / 0
	SW-SILTY SAND (FILL), with fine gravel, fine, medium and coarse grained, slightly cohesive, moist	26.70						
28	ML-SANDY SILT (FILL), fine sand, cohesive, light gray/chalky white, moist	28.00						
30	SW-SILTY SAND (FILL), fine, medium and coarse grained, slightly consolidated, well graded, dark gray, dry - wet at 30.3ft BGS		∇	8GP		68		0.0 / 0
32								
34				9GP NEG SUDAN		63		0.0 / 0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH128-18
DATE COMPLETED: 30 May 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
36				IV				
38				10GP		68		0.0 / 0
40	- red clay brick pieces at 39.8ft BGS							
42	- red clay brick pieces at 41.4ft BGS - REFUSAL at 41.7ft BGS			11GP		15		0.0 / 0
44	END OF BOREHOLE @ 44.0ft BGS	44.00						
46								
48								
50								
52								
54								
56								
58								
60								
62								
64								
66								
68								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH129-18
DATE COMPLETED: 30 May 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
	SW-SILTY SAND (FILL), little fine gravel, fine, medium and coarse grained, slightly consolidated, well graded, brown, dry	0.83		0-2' -102				
2	ML-SILT (FILL), little fine sand, cohesive, dark gray/black, moist - dry at 1.8ft BGS - concrete fragments at 2.0ft BGS	3.30		1GP		73		0.0 / 0
4	SM-SILTY SAND (FILL), fine to medium grained, consolidated, well graded, dark gray, dry - moist from 4.0 to 4.7ft BGS - concrete fragments at 7.0ft BGS							
6				2GP		60		0.0 / 0
8								
10	- concrete fragments at 11.0ft BGS			3GP		40		0.0 / 0
12	- concrete fragments/powder at 12.0ft BGS		BACKFILLED WITH BENTONITE CHIPS					
14				4GP 13-15' -103		53		0.0 / 0
16								
18	- concrete fragments/powder at 19.0ft BGS - increase in fine gravel at 19.5ft BGS			5GP		25		0.0 / 0
20								
22	SW-SAND (FILL), some silt, medium to coarse grained, slightly consolidated, well graded, brown, wet	21.50 22.00 22.50		6GP NEG SUDAN IV		18		0.0 / 0
24	SW-SAND (NATIVE), some silt, medium to coarse grained, slightly consolidated, well graded, brown, wet - REFUSAL at 22.5ft BGS							
26	END OF BOREHOLE @ 22.5ft BGS							
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH130-18
DATE COMPLETED: 30 May 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
	SW-SAND (FILL), loose, medium to coarse grained, well graded, brown, dry - black foundry type sand from 0.5 to 4.3ft BGS			0-2' -111				
2				1GP		50		0.0 / 0
4								
6				2GP		38		0.0 / 0
8		8.40						
	CL-SILTY CLAY (FILL), cohesive, brown, moist	9.70						
10	SW-SAND (NATIVE), some fine gravel, loose, medium to coarse grained, well graded, tan/brown, moist		BACKFILLED WITH BENTONITE CHIPS	3GP 9.5-11.5 -112		50		0.0 / 0
12								
14				4GP		33		0.0 / 0
16								
18	- wet at 18.8ft BGS		∇	5GP NEG SUDAN IV		53		0.0 / 0
20	END OF BOREHOLE @ 20.0ft BGS	20.00						
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇
CHEMICAL ANALYSIS ◯

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH132-18
DATE COMPLETED: 31 May 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
	SW-SAND (FILL), cinder, loose, medium to coarse grained, well graded, brown, dry - black at 0.18ft BGS			0-2' -118 1GP		50		0.0 / 0
4	SM-SILTY SAND (FILL), fine to medium grained, consolidated, well graded, brown, moist - light gray at 4.6ft BGS	4.00		2GP 6.5-8.5' -119		55		0.0 / 0
8	SW/GW-SAND/GRAVEL (NATIVE), loose, medium to coarse sand, fine gravel, well graded, brown/tan, dry	8.60	BACKFILLED WITH BENTONITE CHIPS	3GP		48		0.0 / 0
14				4GP		60		0.0 / 0
18	- wet at 19.0ft BGS - limestone road fragments, flour at 19.8ft BGS			5GP NEG SUDAN IV		50		0.0 / 0
20	END OF BOREHOLE @ 20.0ft BGS	20.00						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH133-18
DATE COMPLETED: 31 May 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
	TOPSOIL/SILT	0.25						
	GP-GRAVEL (FILL), fine to coarse grained	0.30		0-2' -116				
2	SW-SILTY SAND (FILL), fine to medium grained, slightly consolidated, well graded, dark gray/dark brown, dry			1GP		38		0.0 / 0
4	SW-SAND (FILL), some fine gravel, loose, medium to coarse grained, some fine grained, well graded, dark brown, dry	4.00						
6	- VOID SPACE from 6.0 to 7.5ft BGS			2GP		15		0.0 / 0
8	CL-SANDY CLAY (FILL), little silt, medium to coarse sand, dark brown, moist	8.00		7-9' -117				
		9.00						
10	SW-SAND (NATIVE), trace fine gravel, loose, medium to coarse grained, well graded, tan/brown, dry		BACKFILLED WITH BENTONITE CHIPS	3GP		48		0.0 / 0
12								
14				4GP		58		0.0 / 0
16								
18	- wet at 18.8ft BGS			5GP NEG SUDAN IV		60		0.0 / 0
20	END OF BOREHOLE @ 20.0ft BGS	20.00						
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH136-18
DATE COMPLETED: 8 January 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
	ASPHALT	0.50						
2	SW-SAND (FILL), with fine gravel, loose, medium to coarse grained, well graded, dark gray/dark brown, dry - no fine gravel, medium to coarse foundry type sand, black at 1.2ft BGS			1-3' -032/ 033 NEG SUDAN IV 1DP		74		2.9 0 / 0
4	- fine grained slag, gray at 4.4ft BGS							
6	- 1" little fine gravel at 5.8ft BGS							
8	- fine to medium gray foundry type sand at 8.5ft BGS			2DP		58		0 / 0
10	- roots, plastic pieces, rubber pieces at 11.0ft BGS							
12	- 1" rock fragments at 12.0ft BGS			3DP		44		0.4 0 / 0
14			BACKFILLED WITH BENTONITE CHIPS					
16	- black plastic shavings, trash odor at 16.0ft BGS			15-17' -034 NEG SUDAN IV 4DP		64		1 0 / 0
18	SW-SAND (FILL), fine to medium grained, slightly consolidated	18.00						
20	SW-SAND (FILL), trace fine gravel, loose, medium to coarse grained, with fine grained, well graded, dark brown/dark gray, dry	20.00						0.5
22	SM-SILT/SAND (NATIVE), fine grained, some medium grained, cohesive, gray, moist	22.00		5DP		80		0 / 0
24	- 2" fine subrounded gravel at 24.7ft BGS							
26	NO RECOVERY	25.00						
28				6DP		0		
30	END OF BOREHOLE @ 30.0ft BGS	30.00						
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH137-18
DATE COMPLETED: 8 January 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
	ASPHALT	0.50						
2, 4	SW-GRAVELLY SAND (FILL), loose, fine gravel, medium to coarse grained, well graded, dark brown, dry - light brown/gray at 1.0ft BGS - dark brown at 2.7ft BGS			1DP		80		0 / 0
6	SW-SAND (FILL), trace fine gravel, loose, fine, medium and coarse grained, well graded, dark brown/dark gray, dry	5.50						
8				2DP		50		0 / 0
10								
12				3DP		42		0 / 0
14				13-15' -030 NEG SUDAN IV				2.8
16								
18	GW-SANDY GRAVEL (FILL), loose, fine to medium sand, fine grained, well graded, dark brown, dry	18.00	BACKFILLED WITH BENTONITE CHIPS	4DP		34		0 / 0
20	SW-SAND (FILL), trace fine gravel, loose, fine to medium grained, well graded, dark brown, dry - glass and plastic shards at 20.5ft BGS - wood pieces at 21.2ft BGS	20.00 21.20						
22				5DP		24		0 / 0
24	NO RECOVERY							
26	SW-SAND (FILL), with fine gravel, trace silt, loose, fine, medium and coarse grained, well graded, dark brown, dry	25.00						
28	SW-SILTY SAND (FILL), with fine gravel, fine, medium and coarse grained, slightly consolidated, well graded, dark brown/light gray, moist, hydrocarbon odor and sheen - tan at 29.5ft BGS	28.00	∇	NEG SUDAN IV- 26-28' -031 6DP		42		0 / 0 4.5
30	SW-GRAVELLY SAND (NATIVE), fine gravel, fine, medium and coarse grained, slightly consolidated, well graded, dark gray, wet	30.00 32.00		POS SUDAN IV 7DP		100		4.8 0 / 0
34	GW-SANDY GRAVEL, fine to medium sand, fine grained, slightly consolidated, well graded, wet, hydrocarbon odor and sheen	33.00						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH137-18
DATE COMPLETED: 8 January 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
36	CL-SILTY CLAY, with coarse sand and fine gravel, compact, cohesive, gray, dry	35.00						
	END OF BOREHOLE @ 35.0ft BGS							
38								
40								
42								
44								
46								
48								
50								
52								
54								
56								
58								
60								
62								
64								
66								
68								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH138-18
DATE COMPLETED: 9 January 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
	SW-GRAVELLY SAND (FILL), loose, fine gravel, fine, medium and coarse grained, well graded, dark brown, dry	1.50						
2	SW-SAND (FILL), with silt, fine to medium grained, slightly consolidated, well graded, brown, dry	1.80		1DP		84		0 / 0
4	SW-SAND, few silt, fine to medium grained, slightly consolidated, well graded, black, dry - gray at 2.05ft BGS							
6	- 3" increase in silt content, light brown at 5.5ft BGS - 2" wood chips at 6.4ft BGS							
8				2DP		54		0 / 0
				8-10' -035 NEG SUDAN IV				0.3
10	- moist from 10.2 to 12.0ft BGS							
12	- 1' fine gravel sized cinder at 12.0ft BGS - moist at 13.0ft BGS		BACKFILLED WITH BENTONITE CHIPS	3DP		62		0 / 0
14		15.00						
16	SW-SAND (FILL), with fine gravel, few silt, fine to medium grained, slightly consolidated, well graded, dark brown, dry	16.00 16.40						
18	SM-SILTY SAND (FILL), fine to medium grained, slightly consolidated, well graded, dark brown, moist			4DP		66		0 / 0
20	GW-SANDY GRAVEL (NATIVE), fine, medium and coarse sand, fine grained, trace coarse grained, slightly consolidated, well graded, light brown, dry							
22				5DP		80		0 / 0
24		25.00						
26	END OF BOREHOLE @ 25.0ft BGS							
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH139-18
DATE COMPLETED: 4 January 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
	ASPHALT		ASPHALT					
2, 4	SW-SAND (FILL), trace fine gravel, trace silt, fine, medium and coarse grained, slightly consolidated, well graded, dark brown/black, dry	1.50		1GP		98		0.0 / 0.0
6	SW-SAND (FILL), trace fine gravel, loose, fine to medium grained, well graded, black, dry	5.50						
	GW-SANDY GRAVEL (FILL), with fine, medium and coarse sand, trace silt, loose, fine to coarse grained, light brown, dry	6.30						
8	GW-SANDY GRAVEL (FILL), with fine, medium and coarse sand, loose, fine to coarse grained, well graded, dark gray, dry	7.10		2GP		62		0.0 / 0.0
10	- trace fine grained, light brown at 7.3ft BGS	10.80						
12	SW-SAND (FILL), loose, fine to medium grained, well graded, dark gray, dry	11.50		3GP		72		0.0 / 0.0
14	SM-SILTY SAND (FILL), fine to medium grained, slightly consolidated, well graded, gray, dry - 3" tan rock at 11.6ft BGS - 8" brown at 12.0ft BGS			13-15' NEG SUDAN IV 13-15' -028				
16	- 8" trace fine gravel, fine, medium and coarse grained, dark brown at 15.0ft BGS		BACKFILLED WITH BENTONITE CHIPS					
18	- 8" trace white rock, light brown at 16.0ft BGS GW-SANDY GRAVEL (FILL), red clay brick and glass, fine to coarse grained, slightly consolidated, well graded, reddish orange, dry	17.30		4GP		64		0.0 / 0.0
20	SW-SAND (FILL), with silt, fine to medium grained, slightly consolidated, well graded, dark brown/dark gray, moist	20.50						
22	- 6" light gray and green rock at 21.3ft BGS	22.00		5GP		60		0.0 / 0.0
24	SM-SILTY SAND (FILL), with fine gravel, fine, medium and coarse grained, slightly consolidated, well graded, light brown, moist							
26	SM-SILTY SAND (NATIVE), trace fine gravel, fine to medium grained, consolidated, well graded, light brown, moist	26.00						
28	SW-GRAVELLY SAND, with fine to coarse gravel, fine, medium and coarse grained, slightly consolidated, well graded, light brown, dry	27.00		6GP		72		0.0 / 0.0
30	SW-SAND, trace fine gravel, loose, fine, medium and coarse grained, well graded, light brown, moist	29.00 30.00						
32	END OF BOREHOLE @ 30.0ft BGS							
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH140-18
DATE COMPLETED: 8 January 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
	SW-SAND (FILL), trace fine gravel, fine, medium and coarse grained, slightly consolidated, well graded, brown, dry	0.40						
2	SW-SAND (FILL), with fine gravel, fine, medium and coarse grained, slightly consolidated, well graded, dark brown/black, dry			1DP		98		0 / 0
4	- glass shards at 4.8ft BGS - 2" increase in silt content at 5.1ft BGS - 4" light brown at 5.5ft BGS							
6	- 4" thick with plastic and glass debris, light orange at 7.0ft BGS	7.50		2DP		70		0 / 0
8	SW-SAND (FILL), with silt, fine to medium grained, slightly consolidated, well graded, dark brown/black, moist							
10	- with rubber and red clay brick, fine to coarse gravel from 11.0 to 14.0ft BGS							
12			BACKFILLED WITH BENTONITE CHIPS	3DP		52		0 / 0
14	- 3" thick concrete pieces, coarse grained, multicolored at 14.0ft BGS			13-15' -029 NEG SUDAN IV				
	SW-GRAVELLY SAND (FILL), loose, fine, medium and coarse grained, brown/gray, moist	15.00						
16	- 1" glass shards at 16.0ft BGS	16.10						
18	SW-SAND (FILL), with sit, trace fine gravel, fine to medium grained, slightly consolidated, dark brown, moist - light tan at 16.3ft BGS			4DP		54		0 / 0
20		20.50						
22	SM-SILTY SAND (NATIVE), fine to medium grained, consolidated, well graded, dark brown, moist			5DP		100		0 / 0
24	- light brown at 24.0ft BGS	24.50						
26	SW-GRAVELLY SAND, with silt, fine gravel, fine to medium grained, slightly consolidated, well graded, light brown, moist	25.00						
	END OF BOREHOLE @ 25.0ft BGS							
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH141-18
DATE COMPLETED: 9 January 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
	ASPHALT	0.20						
	CONCRETE PIECES	1.00						
2	SW-GRAVELLY SAND (FILL), loose, fine gravel, fine, medium and coarse grained, well graded, light brown, dry - dark brown at 1.25ft BGS			1DP		100		0 / 0
4	- 0.5' increased silt content, light brown at 2.4ft BGS - 0.2' increased silt content at 3.7ft BGS	3.90						
6	SW-SAND (FILL), few silt, fine to medium grained, slightly consolidated, well graded, dark gray/black, dry - 0.2' trace fine gravel, light gray at 5.0ft BGS - 0.2' consolidated, light brown at 5.2ft BGS - 0.2' silty clay, with green and red wood chips/plastic at 6.6ft BGS	7.00		6-8' -036 NEG SUDAN IV 2DP		64		0 / 0
8								
10								
12	SW-GRAVELLY SAND (FILL), loose, fine gravel, fine, medium and coarse grained, well graded, dark gray, dry, slag pieces - decrease in slag and gravel content at 9.0ft BGS - 0.3' increase in fine to medium grained, light brown at 11.0ft BGS - 0.3' no slag, yellowish orange at 14.0ft BGS			3DP		66		0 / 0
14								
16	CL-SILTY CLAY (FILL), cohesive, dark brown/dark gray, moist - wood chips at 16.3ft BGS	15.30	BACKFILLED WITH BENTONITE CHIPS	4DP		90		0 / 0
18								
20	SM-SILTY SAND (FILL), compact, fine to medium grained, well graded, light brown, moist	19.30 20.00						
22	SW-SAND (FILL), few silt, fine to medium grained, slightly consolidated, well graded, light brown/light gray, hydrocarbon odor - 0.2' concrete pieces at 23.0ft BGS			5DP		82		0 / 0 9.2
24	GW-SANDY GRAVEL (NATIVE), loose, fine, medium and coarse sand, fine grained, trace coarse grained, well graded, light gray, dry, hydrocarbon odor	23.20		POS SUDAN IV				
26								5.2
28	- wet, hydrocarbon sheen and odor at 28.3ft BGS			6DP POS SUDAN IV		52		0 / 0
30	END OF BOREHOLE @ 30.0ft BGS	30.00						
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH142-18
DATE COMPLETED: 4 January 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
	ASPHALT	0.50	ASPHALT					
2	SW-SAND (FILL), few fine gravel, loose, fine, medium and coarse grained, well graded, brown/off-white, dry - fine to medium grained, black at 1.7ft BGS			1GP		94		0.0 / 0.0
4								
6	- 1" fine gravel, medium to coarse grained at 5.7ft BGS - fused/conglomerated black foundry type sand at 6.5ft BGS			2GP		90		0.0 / 0.0
8	- little dark brown with black foundry type sand at 7.0ft BGS - one piece coarse gravel at 8.0ft BGS			8-10' NEG SUDAN IV 8-10' -027				0.3
10	- glass shards/pieces from 9.8 to 10.4ft BGS							
12				3GP		60		0.0 / 0.0
14								
16	- increase in silt content at 15.0ft BGS - glass fragments at 15.2ft BGS		BACKFILLED WITH BENTONITE CHIPS					
18	- green glass pieces at 17.5ft BGS			4GP		48		0.0 / 0.0
20	- reddish orange silt from 20.0 to 20.3ft BGS							
22	CL-SILTY CLAY (FILL), glass pieces, cohesive, dark brown, moist	21.00		5GP		60		0.0 / 0.0
24	SM-SILTY SAND (NATIVE), fine grained, little medium grained, slightly consolidated, well graded, brown, moist	24.00						
26	SW-SAND, with fine gravel, loose, medium to coarse grained, well graded, brown/tan, dry	26.00		6GP		74		0.0 / 0.0
28								
30	END OF BOREHOLE @ 30.0ft BGS	30.00						
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH143-18
DATE COMPLETED: 23 January 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
	GW-GRAVEL (FILL), with medium sand, loose, fine grained, well graded, dark gray, dry	1.50						
2	SM-SILTY SAND (FILL), with fine gravel, medium grained, consolidated, well graded, brown, dry	2.10		1DP		76		0 / 0
		2.70						
4	CL-SANDY CLAY (FILL), with fine gravel, medium to coarse sand, cohesive, low plasticity, brown, dry	3.90						
		4.50						
6	SM-SILTY SAND (FILL), with fine gravel, medium to coarse grained, slightly consolidated, well graded, brown, dry							
8	SW-GRAVELLY SAND (FILL), fine gravel, medium to coarse grained, slightly consolidated, well graded, dark gray, dry - light red staining at 4.7ft BGS			2DP		66		0 / 0
10	SM-SILTY SAND (FILL), foundry type sand, loose, fine grained, well graded, light gray, dry - 0.5' increase in clay and fine gravel content at 5.0ft BGS			10-12' -061/ 062 NEG SUDAN IV				0.1
12	- slag pieces at 8.1ft BGS - fine gravel pieces at 9.4ft BGS			3DP		56		0 / 0
14	- crushed black gravel and plastic debris at 14.4ft BGS							
16	- wood piece blinded off sample at 15.0ft BGS - large wood pieces blinded off sample at 15.3ft BGS							
18	- fine gravel pieces and light red staining at 15.7ft BGS		BACKFILLED WITH BENTONITE CHIPS	4DP		36		0 / 0
	- wet at 19.3ft BGS							
20	- silt from 20.0 to 21.0ft BGS							
22				5DP		100		0 / 0
24		25.00						
	NO RECOVERY							
26								
28				6DP		0		0 / 0
30		30.00						
	ML-CLAYEY SILT (NATIVE), cohesive, medium plasticity, gray, moist							
32	- with fine sand at 32.0ft BGS			7DP		90		0 / 0
		33.30						
34	CL-SANDY CLAY, with fine gravel, fine, medium and coarse sand, low plasticity, slightly cohesive, light brown, dry	34.00						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇
CHEMICAL ANALYSIS

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH143-18
DATE COMPLETED: 23 January 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
36	CL-CLAY (glacial till), few medium and coarse sand, cohesive, low plasticity dark brown, dry	35.00						
	END OF BOREHOLE @ 35.0ft BGS							
38								
40								
42								
44								
46								
48								
50								
52								
54								
56								
58								
60								
62								
64								
66								
68								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH144-18
DATE COMPLETED: 22 January 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
	GW-SANDY GRAVEL (FILL), loose, medium to coarse sand, fine grained, well graded, light brown, dry - glass pieces at 2.0ft BGS	2.20		1DP		62		0 / 0
	SM-SILTY SAND (FILL), with fine gravel, medium grained, slightly consolidated, well graded, dark brown, dry - concrete pieces at 3.7ft BGS - red clay brick rock at 3.8ft BGS - iron staining at 4.1ft BGS - increase in find sand content at 4.3ft BGS	5.80						
	SW-SAND (FILL), foundry type sand, loose, fine grained, with medium grained, well graded, light gray, dry - glass pieces at 7.5ft BGS - fine gravel pieces at 9.5ft BGS	10.00	BACKFILLED WITH BENTONITE CHIPS	2DP		76		0 / 0
	SW-GRAVELLY SAND (FILL), with fine gravel, loose, medium grained, well graded, dark brown, dry	10.40						
	NO RECOVERY			3DP		8		0 / 0
	CL-SANDY CLAY (FILL), fine grained, slightly compact, cohesive, brown, moist	15.00		14.5-16.5 -057 NEG SUDAN IV				
	GW-SANDY GRAVEL (NATIVE), loose, fine, medium and coarse sand, fine grained, well graded, light brown, dry - iron staining at 19.2ft BGS	16.50		4DP		76		0 / 0
	END OF BOREHOLE @ 20.0ft BGS	20.00						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH145-18
DATE COMPLETED: 22 January 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
	TOPSOIL	0.20						
	GW-SANDY GRAVEL (FILL), loose, fine to medium sand, fine grained, well graded, light brown, dry	2.00						
2	- glass pieces at 2.3ft BGS	2.30		1DP		74		0 / 0
	CL-SILTY CLAY (FILL), with fine sand, cohesive, low plasticity, dark brown, dry	3.00						
4	CRUSHED CLAY BRICK, red							
6	SM-SILTY SAND (FILL), foundry type sand, fine grained, trace medium grained, slightly consolidated, well graded, light gray, dry							
8	- 0.3' wet at 6.8ft BGS		BACKFILLED WITH BENTONITE CHIPS	2DP		100		0 / 0
	CL-SANDY CLAY (FILL), with fine gravel, fine to medium sand, cohesive, low plasticity, dark gray, moist	9.10						
10				9-11' -059 NEG SUDAN IV				
	GW-SANDY GRAVEL (NATIVE), loose, fine, medium and coarse sand, fine grained, well graded, light brown, dry	11.00						
12	- crushed rock at 12.9ft BGS			3DP		80		0 / 0
14	- crushed rock at 14.4ft BGS							
	END OF BOREHOLE @ 15.0ft BGS	15.00						
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH146-18
DATE COMPLETED: 17 May 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
	SM-SANDY SILT (FILL), slightly consolidated, fine to medium grained, little coarse grained, well graded, brown, dry	1.00		0-2' -080/ 081				
2	ML-SILT (FILL), with fine to medium sand, soft, cohesive, white/gray, some lamination, moist			1GP		88		0.0 / 0.0
4								
6				2GP		95		0.0 / 0.0
8								
10				3GP		80		0.0 / 0.0
12	SW-SAND (FILL), loose, medium to coarse grained, well graded, tan/brown, dry	12.00						
		13.00						
14	ML-SILT (FILL), with fine to medium sand, soft, cohesive, white/gray, some lamination, moist			4GP 13-15' -082		80		0.0 / 0.0
16								
18				5GP		68		0.0 / 0.0
20								
22			BACKFILLED WITH BENTONITE CHIPS	6GP		95		0.0 / 0.0
24	SM-SILTY SAND (FILL), fine, medium and coarse grained, firm, gray, dry	23.70						
26	- wet at 25.5ft BGS - soft, fine to medium sand/silt at 26.0ft BGS		∇	25-26' NEG SUDAN IV 7GP		65		0.0 / 0.0
	GM/SM-SILTY GRAVEL/SAND (FILL), loose, fine gravel, fine, medium and coarse sand, well graded, dark gray, wet	27.00						
28								
30				8GP		68		0.0 / 0.0
32	- red clay brick fragment at 31.5ft BGS							
34				9GP		48		0.0 / 0.0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH146-18
DATE COMPLETED: 17 May 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
36								
38				10GP		5		0.0 / 0.0
40	GW/SW-GRAVEL/SAND (NATIVE), loose, fine gravel, medium to coarse sand, well graded, light brown, wet	40.00						
42				11GP		80		0.0 / 0.0
44	END OF BOREHOLE @ 44.0ft BGS	44.00						
46								
48								
50								
52								
54								
56								
58								
60								
62								
64								
66								
68								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH147-18
DATE COMPLETED: 17 May 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
	SW-SAND (FILL), loose, medium to coarse grained, well graded, dark gray, dry			0-2' -076				
2				1GP		60		0.0 / 0.0
	- trace silt, brown at 3.0ft BGS							
4	ML-CLAYEY SILT (FILL), trace fine to medium sand, slightly cohesive, brown, dry	3.80						
6				2GP		45		0.0 / 0.0
8	GW/SW-GRAVEL/SAND (NATIVE), trace silt, loose, little fine gravel, fine, medium and coarse sand, well graded, tan/brown, dry	7.90						
10				3GP		23		0.0 / 0.0
12				12-14' -077				
14			BACKFILLED WITH BENTONITE CHIPS	4GP		38		0.0 / 0.0
16								
18	- wet at 18.0ft BGS		∇	5GP 17.5-18.5' NEG SUDAN IV		53		0.0 / 0.0
20								
22				6GP		53		0.0 / 0.0
24	- strong iron staining at 25.0ft BGS							
26				7GP		58		0.0 / 0.0
28	END OF BOREHOLE @ 28.0ft BGS	28.00						
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH148-18
DATE COMPLETED: 17 May 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
	GP-GRAVEL (FILL)	0.17		0-2' -078				
	CL-SILTY CLAY (FILL), trace fine sand, cohesive, low plasticity, brown, dry	1.50						
2	ML-SILT (FILL), loose, gray, dry			1GP		75		0.0 / 0.0
4								
6				2GP				0.0 / 0.0
				6-8' -079				
8	NO RECOVERY	8.00						
10				3GP		0		NA / NA
12								
14				4GP		0		NA / NA
16	ML-SILT (FILL), loose, gray, dry	16.00	BACKFILLED WITH BENTONITE CHIPS					
18	- perched water at 18.7ft BGS			5GP		30		0.0 / 0.0
20	CL-CLAY (FILL), some coarse sand, trace fine gravel, cohesive, low plasticity, dark brown	19.50						
22				6GP		55		0.0 / 0.0
	SW-SAND (FILL), trace fine gravel, loose, fine, medium and coarse grained, well graded, tan/brown, dry	23.00						
24		23.80						
	SM-SILTY SAND (FILL), fine grained, slightly consolidated, well graded, dark gray, moist	25.00		24.5-25.5 NEG SUDAN IV				
26	GW/SW-SILTY GRAVEL/SAND (FILL), fine gravel, fine, medium and coarse sand, slightly consolidated, well graded, dark brown, wet			7GP		80		0.0 / 0.0
28								
30				8GP		60		0.0 / 0.0
32	- REFUSAL at 32.0ft BGS	32.00						
	END OF BOREHOLE @ 32.0ft BGS							
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH149-18
DATE COMPLETED: 29 May 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
	TOPSOIL	0.17						
	ML-CLAYEY SILT (FILL), cohesive, brown, dry	0.83		0-2' -087				
2	CL-SILTY CLAY (FILL), trace medium to coarse sand, cohesive, brown, moist			1GP		55		0.0 / 0
4	SW-SAND (NATIVE), little fine gravel, loose, fine, medium and coarse grained, well graded, brown, dry	3.80 4.30 4.50						
6	CRUSHED ROCK		BACKFILLED WITH BENTONITE CHIPS	2GP		50		0.0 / 0
	CL-CLAY, little silt, cohesive, brown, dry							
8	SW-SAND, little fine gravel, loose, fine, medium and coarse grained, well graded, brown, dry	7.80 8.50						
10	SM-SILT/SAND, trace fine gravel, fine, medium and coarse sand, consolidated, well graded, dark gray, moist	10.00		3GP 10-12' -088		43		0.0 / 0
12	SW/GW-SAND/GRAVEL, loose, fine to coarse sand, fine gravel, well graded, off-white/tan, dry - REFUSAL at 12.5ft BGS	12.50		4GP		100		0.0 / 0
14	END OF BOREHOLE @ 12.5ft BGS							
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH150-18
DATE COMPLETED: 29 May 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
	CL-CLAY (FILL), cohesive	1.00		0-2' -085				
	SW-SAND (FILL), loose, medium to coarse grained, well graded, dark brown/dark gray, dry	1.20		1GP		58		0.0 / 0
2	CL-CLAY (FILL), cohesive	3.40						
4	ROCK/CONCRETE FRAGMENTS (FILL)	4.00						
	CL-CLAY (FILL), little silt, low to medium plasticity, cohesive, dark gray, moist							
6				2GP		60		0.0 / 0
8	NO RECOVERY	8.00						
10				3GP		0		-- / --
12	GM/SM-SILTY GRAVEL/SANDY CLAY (FILL), fine gravel, fine, medium and coarse sand, consolidated, well graded, dark gray, moist	12.00						
14				4GP 13-15' -086		53		0.0 / 0
16			BACKFILLED WITH BENTONITE CHIPS					
18				5GP		60		0.0 / 0
20								
22				6GP		50		0.0 / 0
24								
26				7GP		58		0.0 / 0
	CL-CLAY (NATIVE), low plasticity, cohesive, dark gray/dark brown, dry	27.00		NEG SUDAN IV				
28	- wet at 27.7ft BGS	27.70	∇					
	SW-SAND, loose, medium to coarse grained, well graded, brown/gray, wet	28.30						
30	CL-SILTY CLAY, low plasticity, cohesive, light gray, moist	29.00		8GP		50		0.0 / 0
32	GW-GRAVEL, with medium to coarse sand, loose, fine grained, well graded, light gray, wet	32.00						
34	END OF BOREHOLE @ 32.0ft BGS							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH151-18
DATE COMPLETED: 29 May 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
	ML-CLAYEY SILT (FILL), red clay brick fragments, little coarse sand and fine gravel, cohesive, gray, dry - 1" red clay brick at 1.5ft BGS - concrete fragment at 2.2ft BGS			0-2' -089 1GP		63		0.0 / 0
2								
4								
6				2GP		55		0.0 / 0
8								
10			BACKFILLED WITH BENTONITE CHIPS	3GP 10-12' -090		8		0.0 / 0
12								
14				4GP NEG SUDAN IV		43		0.0 / 0
	- wet at 15.0ft BGS	15.00						
16	GW/SW-SILTY GRAVEL/SAND (NATIVE), slightly consolidated, well graded, brown, wet	16.00						
18	CL-CLAY (till), little coarse sand and fine gravel, firm, low plasticity, cohesive, gray, moist			5GP		75		0.0 / 0
20	END OF BOREHOLE @ 20.0ft BGS	20.00						
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH152-18
DATE COMPLETED: 29 May 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
	ML-CLAYEY SILT (FILL), cohesive, dark gray, moist			0-2' -098				
2				1GP		40		0.0 / 0
4								
6				2GP		25		0.0 / 0
8								
10			BACKFILLED WITH BENTONITE CHIPS	3GP 9-11' -099 NEG SUDAN IV		38		0.0 / 0
12	SM-SILTY SAND, fine to medium grained, slightly consolidated, well graded, black, wet	11.00						
14				4GP		43		0.0 / 0
16	GW/SW-GRAVEL/SAND (NATIVE), loose, fine gravel, coarse sand, well graded, brown, wet	16.00						
18	SW-SAND, loose, fine to medium grained, well graded, brown, wet	17.50		5GP		80		0.0 / 0
20	CL-CLAY, little medium to coarse sand and fine gravel, low plasticity, cohesive, gray, moist	19.70						
	END OF BOREHOLE @ 20.0ft BGS	20.00						
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH153-18
DATE COMPLETED: 29 May 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
	ML-CLAYEY SILT (FILL), trace coarse sand and fine gravel, cohesive, dark brown/dark gray, moist			0-2' -091				
2				1GP		50		0.0 / 0
4								
6				2GP		25		0.0 / 0
8								
10			BACKFILLED WITH BENTONITE CHIPS	3GP		25		0.0 / 0
12								
14				4GP 13-15' -092		33		0.0 / 0
16	GW-SILTY GRAVEL (NATIVE), some coarse sand, slightly consolidated, well graded, light brown, wet	16.00						
18	- wet, perched at 17.7ft BGS	18.00		NEG SUDAN IV 5GP		63		0.0 / 0
20	CL-CLAY (till), little coarse sand and fine gravel, dense, cohesive, low plasticity, gray, moist	20.00						
	END OF BOREHOLE @ 20.0ft BGS							
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH154-18
DATE COMPLETED: 29 May 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
	ML-CLAYEY SILT (FILL), little coarse sand and fine gravel, cohesive, dark gray/dark brown, dry			0-2' -093				
2				1GP		75		0.0 / 0
4								
6				2GP		25		0.0 / 0
8								
10			BACKFILLED WITH BENTONITE CHIPS	3GP		10		0.0 / 0
12	- crushed red clay brick at 12.1ft BGS - crushed red clay brick at 12.6ft BGS							
	SW/GW-SILTY SAND/GRAVEL (FILL), medium to coarse sand, fine gravel, slightly consolidated	13.30						
14				4GP 13-15' -094		38		0.0 / 0
16								
	CL-CLAY (NATIVE-TILL), little coarse and fine gravel, firm, dense, cohesive, low plasticity, moist	17.50						
18				5GP		55		0.0 / 0
20	END OF BOREHOLE @ 20.0ft BGS	20.00						
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH155-18
DATE COMPLETED: 29 May 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
	ML-CLAYEY SILT (FILL), trace sand, cohesive, dark gray, moist			0-2' -095				
2				1GP		65		0.0 / 0
4								
6				2GP		38		0.0 / 0
8	- rock/concrete fragments at 8.0ft BGS							
10			BACKFILLED WITH BENTONITE CHIPS	3GP		13		0.0 / 0
12								
14				4GP 13-15' -096/ 097		38		0.0 / 0
16								
18	- rock pieces at 17.8ft BGS	18.00		5GP		60		0.0 / 0
	CL-CLAY (NATIVE), trace coarse and fine gravel, low plasticity, cohesive, gray, moist							
20	END OF BOREHOLE @ 20.0ft BGS	20.00						
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH156-18
DATE COMPLETED: 16 May 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
2	ML-SILT (FILL), trace silt, little medium to coarse sand, cohesive, gray, dry			0-2' -073 1GP		73		0.0 / 0.0
4	SW-SAND (FILL), loose, fine, medium and coarse grained, well graded, dark gray/black, dry	3.00						
6				2GP		33		0.0 / 0.0
8	CL-SILTY CLAY (NATIVE), some coarse to fine gravel, cohesive, low plasticity, gray/dark gray, moist	7.00						
10				3GP		53		0.0 / 0.0
12								
14				4GP 13-15' -074		35		0.0 / 0.0
16			BACKFILLED WITH BENTONITE CHIPS					
18				5GP		40		0.0 / 0.0
20								
22				6GP		30		0.0 / 0.0
24								
26	- wet at 27.0ft BGS			7GP 26.5-27.5' NEG SUDAN IV		25		0.0 / 0.0
28	GM-SILTY GRAVEL, little medium to coarse sand, loose, fine grained, trace coarse grained, well graded, dark gray, wet	27.30 28.00						
30	SW-SAND, loose, medium to coarse grained, well graded, brown/tan, wet			8GP				0.0 / 0.0
32	END OF BOREHOLE @ 32.0ft BGS	32.00						
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH157-18
DATE COMPLETED: 17 May 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
	SW-SAND (FILL), trace silt, little fine gravel, loose, medium to coarse grained, well graded, dark gray, dry	0.60		0-2' -075				
2	ML-SILT (FILL), trace clay, little fine to medium sand, cohesive, brown, dry			1GP		73		0.0 / 0.0
4								
6				2GP		15		0.0 / 0.0
8	SW-SAND (FILL), little fine gravel, loose, fine, medium and coarse grained, well graded, tan/brown, dry	8.10	BACKFILLED WITH BENTONITE CHIPS					
10				3GP		30		0.0 / 0.0
12				12-14' -083				
14	- red clay brick fragments at 14.0ft BGS	14.10	∇	4GP 13.5-14.5' NEG SUDAN IV		63		0.0 / 0.0
16	SW-SAND (NATIVE), little fine gravel, loose, fine, medium and coarse grained, well graded, tan/brown, dry, - wet at 14.1ft BGS	16.00						
18	END OF BOREHOLE @ 16.0ft BGS							
20								
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH158-17
DATE COMPLETED: 6 December 2017
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
	TOPSOIL	0.33						
2	CL-SILTY CLAY (FILL), little to some coarse sand and fine gravel, low to medium plasticity, brown, dry	1.70		1DP		98		0 / 0
4	GC-SILTY GRAVELLY CLAY (FILL), cohesive, fine gravel, low plasticity, dark gray, dry - red clay brick at 2.8ft BGS - wet at 5.0ft BGS	5.00	∇	3-5' -001 NEG SUDAN IV				
6	SM-SILTY SAND (FILL), trace fine gravel, fine to medium grained, little coarse grained, slightly consolidated, well graded, brown, wet - piece of slag at 7.0ft BGS		BACKFILLED WITH BENTONITE CHIPS					
8				2DP		48		0 / 0
10								
12	SW-SILTY SAND (FILL), medium to coarse grained, well graded	11.50		3DP		90		0 / 0
	SP-SILTY SAND (FILL), trace fine gravel, medium grained, light/dark gray, moist	12.80 13.30						
14	CL-CLAY (NATIVE), trace fine gravel, cohesive, laminated, tan/brown, dry	15.00						
16	END OF BOREHOLE @ 15.0ft BGS							
18								
20								
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH159-17
DATE COMPLETED: 18 December 2017
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
2, 4	SW-SAND (FILL), foundry type sand, some fine gravel, fine, medium and coarse grained, slightly consolidated, well graded, black/dark gray			1DP		68		0 / 0
		5.00						
6, 8	GW-SANDY GRAVEL (FILL), loose, medium to coarse sand, fine grained, well graded, light brown/gray, dry			2DP		40		0 / 0
		10.00						
10, 12, 14, 16, 18, 20, 22	SW-SAND (FILL), foundry type sand, some fine gravel, fine, medium and coarse grained, slightly consolidated, well graded, black/dark gray, pieces of slag - pieces of brick at 12.0ft BGS - pieces of clear glass at 14.0ft BGS - wood pieces at 15.0ft BGS - REFUSAL, rock at 21.0ft BGS END OF BOREHOLE @ 21.0ft BGS		BACKFILLED WITH BENTONITE CHIPS	3DP		50		0 / 0
				13-15' -010 NEG SUDAN IV				
				4DP		54		0 / 0
				19-21' -011 NEG SUDAN IV 5DP		100		0 / 0
		21.00						
24, 26, 28, 30, 32, 34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH160-18
DATE COMPLETED: 18 May 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
	SW-SAND (FILL), loose, fine, medium and coarse grained, well graded, dark gray/black, dry							
2	- crushed red clay brick at 2.3ft BGS			1GP		70		0.0 / 0.0
	- glass pieces, slag at 3.0ft BGS							
4								
6				2GP		30		0.0 / 0.0
8								
10				3GP		38		0.0 / 0.0
12	- increase in silt content, slightly consolidated from 12.0 to 13.0ft BGS							
14			BACKFILLED WITH BENTONITE CHIPS	4GP		38		0.0 / 0.0
	- increase in silt content, slightly consolidated at 15.0ft BGS							
16	GW/SW-GRAVEL/SAND (NATIVE), loose, fine gravel, fine, medium and coarse sand, well graded, tan/black, dry	16.00						
18				5GP		45		0.0 / 0.0
20								
22				6GP		45		0.0 / 0.0
24								
26				7GP 26.5-27.5' NEG SUDAN IV		38		0.0 / 0.0
	- wet at 27.1ft BGS		∇					
28	END OF BOREHOLE @ 28.0ft BGS	28.00						
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH161-18
DATE COMPLETED: 8 May 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE/A. FELDMAN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
	TOPSOIL	0.20						
2	SW-SAND (FILL), glass, slag, loose, medium to coarse grained, well graded, dark gray/dark brown, dry	2.00		1GP		40		0.0 / 0.0
4	ML-SILT (FILL), trace fine sand, trace clay, cohesive, dark brown, dry							
6				2GP		25		0.0 / 0.0
8								
10				3GP		35		0.0 / 0.0
12								
14				4GP		60		0.0 / 0.0
16			BACKFILLED WITH BENTONITE CHIPS					
18				5GP		60		0.0 / 0.0
	CL-SILTY CLAY (NATIVE), trace fine sand, cohesive, low to medium plasticity, tan, moist	18.80						
20								
22	SW-SAND, loose, medium to coarse grained, well graded, brown, dry	21.50		6GP		60		0.0 / 0.0
24	SM-SILTY SAND, fine grained, consolidated, well graded, brown/tan, dry	24.00						
26	- wet at 27.0ft BGS		∇	7GP 26.5-27.5' NEG SUDAN IV		38		0.0 / 0.0
28	GW/SW-GRAVEL/SAND, trace silt, loose, fine grave, medium to coarse sand, trace fine sand, well graded, brown, wet	27.50						
30				8GP		38		0.0 / 0.0
32	END OF BOREHOLE @ 32.0ft BGS	32.00						
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH163-18
DATE COMPLETED: 8 May 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE/A. FELDMAN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
	TOPSOIL/GRASS	0.20						
	SM-SILTY SAND (FILL), fine to medium grained, consolidated, well graded, dark gray, dry	0.70						
2				1GP		45		0.0 / 0.0
	ML-SANDY SILT (FILL), trace clay, cohesive, dark brown, dry - trace fine gravel at 4.0ft BGS							
4								
6				2GP		40		0.0 / 0.0
8								
10				3GP		58		0.0 / 0.0
12								
14			BACKFILLED WITH BENTONITE CHIPS	4GP		75		0.0 / 0.0
16								
18				5GP 17-19 -070		85		0.0 / 0.0
20	CL-SILTY CLAY (NATIVE), cohesive, low plasticity, medium brown/tan, moist	20.00						
22				6GP		100		0.0 / 0.0
24								
26	SM/SC-SILTY/CLAYEY SAND, fine to medium grained, slightly consolidated, well graded, tan/light brown, wet	26.00	∇	7GP 25.5-26.5 NEG SUDAN IV		78		0.0 / 0.0
		27.50						
28	GW/SW-SILTY GRAVEL/SAND, loose, fine gravel, medium to coarse sand, well graded, brown, wet	28.00						
30	END OF BOREHOLE @ 28.0ft BGS							
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH164-17
DATE COMPLETED: 20 December 2017
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
	TOPSOIL	0.50						
	SW-SAND (FILL), with silt, trace fine gravel, fine to coarse grained, well graded, slightly consolidated, gray/dark gray, dry - 1' slag at 1.5ft BGS	1.30 1.70		1DP		64		0 / 0
	ML-CLAYEY SILT (FILL), with fine sand, well graded, brown, moist							
	SW-SILTY SAND (FILL), trace fine gravel, fine to medium grained, well graded, dark brown, dry - 2" dark gray at 2.6ft BGS - 3" with coarse sand, metal debris, light brown at 3.1ft BGS - 0.7' increase in fine gravel content, dark brown at 5.7ft BGS - 0.6' increase in silt content, black at 6.3ft BGS - ceramic material and glass debris at 6.6ft BGS - glass debris at 7.5ft BGS	8.10 10.00 10.90		2DP		64		0 / 0 0.2
	CONCRETE, blinded off		BACKFILLED WITH BENTONITE CHIPS	3DP		56		0 / 0
	SW-SAND (FILL), with fine gravel, glass, loose, fine to coarse grained, well graded, yellowish orange, moist			13-15' -017 NEG SUDAN IV				23.8
	SW-SILTY SAND (FILL), with fine gravel, fine to medium grained, slightly consolidated, well graded, dark gray, moist, glass - 0.1' glass pieces at 11.5ft BGS - 0.1' glass, light gray at 11.9ft BGS - 0.1' plastic at 12.1ft BGS - glass, light gray at 12.8ft BGS - concrete/glass blind sample from 12.9 to 15.0ft BGS	16.00 20.00		4DP		54		0 / 0 0.3
				18-20' -018 NEG SUDAN IV				
	SW-SAND (FILL), foundry type sand, with fine gravel, fine to medium grained, slightly consolidated, well graded, black, moist	21.90		5DP		70		0 / 0
	GW-GRAVEL (NATIVE), with fine to coarse sand, rock flour, slightly consolidated, well graded, light brown/light gray, dry							
	GW-SANDY GRAVEL, trace silt, fine to coarse grained, slightly consolidated, well graded, gray, wet - iron staining at 24.5ft BGS	25.00						
	END OF BOREHOLE @ 25.0ft BGS							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH165-17
DATE COMPLETED: 20 December 2017
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
	SW-SAND (FILL), trace silt, loose, coarse to fine grained, well graded, black, dry	0.80						
	SW-SILTY SAND (FILL), trace fine gravel, slightly consolidated, well graded, brown, moist	1.50						
2	- concrete at 1.1ft BGS			1DP		52		0 / 0
	SW-SAND (FILL), foundry type sand, trace silt and fine gravel, loose, coarse to fine grained, well graded, dark gray, moist							
4	- 0.4' increase in silt content at 5.3ft BGS							
6	- 0.2' iron color at 5.8ft BGS							0.1
	- 0.3' concrete chunk at 6.9ft BGS			2DP		58		0 / 0
8								
10	- piece of rubber hose at 10.5ft BGS							
	- glass/concrete pieces at 11.0ft BGS							
12	- rock at 11.3ft BGS							
	- red clay brick at 11.8ft BGS			3DP		70		0 / 0
14	- increase in coarse grained, gray at 14.0ft BGS			13-15' -019 NEG SUDAN IV				
	- wood piece at 15.2ft BGS							
16	- 0.2' fine to medium sand, white/light gray at 15.4ft BGS			4DP		52		0 / 0
	- 1' increase in silt content, slightly consolidated, dark gray at 16.0ft BGS		BACKFILLED WITH BENTONITE CHIPS					
18	- 0.2' fine grained at 17.0ft BGS							
	- iron red at 17.5ft BGS			5DP		50		0.4
	- concrete piece at 18.2ft BGS							0 / 0
20	- 0.1' fine to medium grained, white/light gray at 18.3ft BGS							
	- wood piece at 19.2ft BGS							
	- 3' increase in silt content at 21.0ft BGS							
22				6DP 21.5-23.5 -020 NEG SUDAN IV		50		0 / 0 1.9
24	- increase in medium to fine gravel content at 24.0ft BGS							
26		26.50	▽					
	GW-SAND GRAVEL (FILL), trace silt, loose, fine to coarse grained, well graded, dark gray/black, wet			7DP		70		0 / 0
28	- wood piece at 26.7ft BGS	28.60						1.6
	OL-ORGANIC SILT (NATIVE), fibers, dark brown, moist	28.80						
30	GW-SANDY GRAVEL, loose, fine to coarse grained, well graded, light gray, wet	30.00						
	GW-SANDY GRAVEL, loose, fine grained, well							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽
CHEMICAL ANALYSIS ◯

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH165-17
DATE COMPLETED: 20 December 2017
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
	graded, gray, wet - piece of coarse gravel at 31.0ft BGS - 1' increase in silt content at 31.1ft BGS - piece of coarse gravel at 33.0ft BGS	33.70						
	ML-SILT, cohesive, layered, yellow/brown, moist - 1/4" iron staining at 34.0ft BGS	35.00						
	END OF BOREHOLE @ 35.0ft BGS							

34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇
CHEMICAL ANALYSIS

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH166-17
DATE COMPLETED: 15 December 2017
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
2	SW-SAND (FILL), little fine gravel, fine, medium and coarse grained, slightly consolidated, well graded, black/dark gray, dry - rock fragments, fine gravel at 1.0ft BGS			1-3' -011 NEG SUDAN IV 1DP		56		0 / 0
4								
6								
8				2DP		36		0 / 0
10	- wood fragments, red clay brick dust at 9.0ft BGS - 0.67' moist at 10.5ft BGS - increase in silt content at 10.7ft BGS							
12	- 3" long concrete fragments at 12.2ft BGS			3DP		60		0 / 0
14								
16	- 5" long concrete fragments at 15.2ft BGS GM-SILTY GRAVEL (FILL), little coarse to medium sand, slightly consolidated, dark brown, moist	16.00 17.00						
18	SW-SAND (FILL), foundry type sand, little fine gravel, coarse to medium grained, slightly consolidated, well graded, black, dry			4DP		82		0 / 0
20	- wet at 20.2ft BGS		∇	18-20' -012 NEG SUDAN IV				
22			BACKFILLED WITH BENTONITE CHIPS	5DP		62		0 / 0
24	- red clay brick fragment at 25.0ft BGS							
26	CL-CLAY (FILL), trace silt and fine sand, cohesive, brown, wet	25.40 25.70						
28	SW-SAND (FILL), foundry type sand, little fine gravel, coarse to medium grained, slightly consolidated, well graded, black, dry - degraded brick, light orange at 29.5ft BGS			6DP		78		0 / 0
30								
32				7DP		82		0 / 0
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH166-17
DATE COMPLETED: 15 December 2017
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
36								
38	SW-SAND (NATIVE), trace to little fine gravel, trace coarse gravel, loose, medium to coarse grained, well graded, wet	38.00		8DP		64		0 / 0
40								
42				9DP		90		0 / 0
44								
	END OF BOREHOLE @ 45.0ft BGS	45.00						
46								
48								
50								
52								
54								
56								
58								
60								
62								
64								
66								
68								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH168-17
DATE COMPLETED: 21 December 2017
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
	SW-SAND (FILL), foundry type sand, trace silt, fine to medium grained, trace coarse grained, well graded, dark gray/black, dry							
2	- increase in coarse sand and fine gravel content at 1.0ft BGS			1DP		46		0 / 0
4								
6								
8	- increase in silt content, brown at 8.2ft BGS			2DP		42		0 / 0
	- fine gravel pieces at 9.3ft BGS							
10	- dark gray/black foundry type sand at 9.4ft BGS							
	- red clay brick at 9.5ft BGS							
12	- fine to medium grained, black at 9.6ft BGS							
	- medium grained, orange/yellowish brown, iron staining at 10.0ft BGS		BACKFILLED WITH BENTONITE CHIPS	3DP		40		0 / 0
14	- wet at 14.8ft BGS			12.5-14.5 -024 NEG SUDAN IV				
16								
18	SW-SAND (NATIVE), with silt, medium to coarse grained, slightly consolidated, well graded, dark gray/black, wet	17.80		4DP		60		0 / 0
	- piece of coarse gravel at 18.2ft BGS	18.30						
20	SW-SILTY SAND (NATIVE), with fine gravel, fine to medium grained, slightly consolidated, well graded, brown	19.30						
		20.00						
22	ML-SILT, trace fine sand, cohesive, tan/light brown, moist	22.20		5DP		66		0 / 0
24	GW-SANDY GRAVEL, loose, medium to coarse sand, fine grained, few coarse grained, well graded, brown, wet	25.00						
26	ML-SILT, trace clay, cohesive, light gray, moist							
	END OF BOREHOLE @ 25.0ft BGS							
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇
CHEMICAL ANALYSIS ⬭

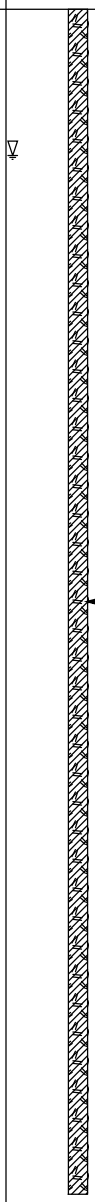
STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH171-18
DATE COMPLETED: 15 May 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS
	ML-SILT (FILL), trace clay, cohesive, dark brown, dry	
2		2.50
	CONCRETE DEBRIS, powder	3.70
4	SW-SAND (NATIVE), some fine gravel, loose, medium to coarse grained, well graded, dark gray/brown, wet	
6		
8		
10		
12		
14		
16		
18		
20		
22		
24		
26		
28		
30	- REFUSAL at 30.0ft BGS	30.00
	END OF BOREHOLE @ 30.0ft BGS	
32		
34		

BOREHOLE



SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
1GP		58		0.0 / 0.0
3.5-4.5' NEG SUDAN IV				
2GP		30		0.0 / 0.0
3GP		15		0.0 / 0.0
4GP		25		0.0 / 0.0
5GP		0		NA / NA
6GP		6		0.0 / 0.0
7GP		15		0.0 / 0.0
8GP		30		0.0 / 0.0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH172-17
DATE COMPLETED: 8 December 2017
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
	CL-SILTY CLAY (FILL), some fine gravel, cohesive, low plasticity, brown, dry							
2				1DP		64		0 / 0
4	- white plastic at 4.5ft BGS							
	CONCRETE FRAGMENTS/POWDER	5.10						
6	SW-SILTY SAND (FILL), little fine gravel, fine, medium and coarse gained, consolidated, well graded, brown, moist	5.50						
8	SW-SILTY SAND (FILL), foundry type sand, medium to coarse grained, slightly consolidated, well graded, brown/black, dry	7.20		2DP		46		0 / 0
10	- loose at 7.4ft BGS							
12				3DP 12-14' -017 -007 NEG SUDAN IV		68		0 / 0
14	- wet at 14.0ft BGS - 1"-2" red clay brick at 14.5ft BGS		∇					
16								
18				4DP		84		0 / 0
20								
22			BACKFILLED WITH BENTONITE CHIPS	5DP		100		0 / 0
24								
26								
	ML-SANDY SILT (FILL), cohesive, black, moist	27.00		6DP		100		0 / 0
28								
30								
	SP-SAND (FILL), foundry type sand, loose, medium grained, poorly graded, black, wet	30.50						
32				7DP				0 / 0
	- hydrocarbon sheen at 33.5ft BGS	33.70						
34	SW-SAND (FILL), foundry type sand, loose,	34.20						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH172-17
DATE COMPLETED: 8 December 2017
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
36	fine, medium and coarse grained, well graded, black, wet - pieces of very thin black shale at 34.1ft BGS							
		37.10						
38	ML-SILT (FILL), cohesive, gray/reddish brown - red clay brick powder at 34.5ft BGS			8DP		88		0 / 0
		38.70						
40	SW-SAND (FILL), trace fine gravel, loose, fine, medium and coarse grained, well graded, odor							
	GW-GRAVEL (FILL), with medium to coarse sand, loose, fine grained, well graded, black, wet, odor			NEG SUDAN IV				
42								
		42.60		9DP				0 / 0
	CL-CLAY (NATIVE), with coarse sand, dense, cohesive, olive green, dry							
		43.50						
44	END OF BOREHOLE @ 43.5ft BGS							
46								
48								
50								
52								
54								
56								
58								
60								
62								
64								
66								
68								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH173-17
DATE COMPLETED: 21 December 2017
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
2	SW-SAND (FILL), trace fine gravel, fine grained, slightly consolidated, well graded, brown, dry - with styrofoam debris, coarse grained, light gray at 1.0ft BGS - organic root material at 2.4ft BGS			1DP		58		0.2 0 / 0
4								
6	- clayey, light gray at 6.6ft BGS - large rock blinded sample from 7.2 to 10.0ft BGS			NEG SUDAN IV 5-7' -021 2DP		44		0.3 0 / 0
8								
10	- large rock blinded sample from 10.7 to 15.0ft BGS							
12			BACKFILLED WITH BENTONITE CHIPS	3DP		14		0 / 0
14	- red brick powder at 15.2ft BGS							
16	- 2" glass shards at 16.0ft BGS - red brick powder at 17.0ft BGS							0.1
18				4DP 17.5-18.5' -023/ 023 17.5-18.5 -022/ -23 NEG SUDAN IV		44		0 / 0
20	CL-SILTY CLAY (NATIVE), cohesive, low to medium plasticity, brown, moist - increase in fine to medium sand content at 21.3ft BGS	19.50						
22	SW-GRAVELLY SAND, loose, fine to coarse gravel, medium to coarse grained, well graded, light brown, dry - 1" seam fine grained, poorly graded, beige at 23.0ft BGS - rock blinded sample from 23.5 to 25.0ft BGS	21.70		5DP		70		0.2 0 / 0
24		25.00						
26	END OF BOREHOLE @ 25.0ft BGS							
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH174-18
DATE COMPLETED: 15 May 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
	TOPSOIL	0.40						
	ML-SILT (FILL), cohesive, brown, dry	1.00						
2	SW-SAND (FILL), loose, fine, medium and coarse grained, well graded, black/dark gray, dry			1GP		50		0.0 / 0.0
4								
6				2GP		63		0.0 / 0.0 1.7
8	- trace silt, fine to medium grained, slightly consolidated at 7.5ft BGS							
	SM-SILTY SAND (FILL), fine grained, trace medium grained, consolidated, well graded, dark gray, dry	8.50						33.1
10				3GP		53		0.0 / 0.0
12								
14		14.10	∇	4GP 13.5-14.5' NEG SUDAN IV		55		0.0 / 0.0
	SW-SAND (FILL), loose, fine to medium grained, slightly consolidated, well graded, dark gray, wet							
16	- red clay brick at 15.0ft BGS - red clay brick at 15.6ft BGS							
18				5GP		73		0.0 / 0.0
20	- increase in clay content at 19.5ft BGS		BACKFILLED WITH BENTONITE CHIPS					
	SW-SAND (FILL), trace silt, loose, fine to medium grained, well graded, dark gray, wet	21.00						
22		22.00		6GP		93		0.0 / 0.0
	ML-SILT (FILL), slightly cohesive, dark gray/light gray, wet	23.40						
24	SW-SAND (FILL), trace silt, fine to medium grained, slightly consolidated, dark gray/black, wet			24-25' NEG SUDAN IV				
26				7GP		65		0.0 / 0.0
	CL-SANDY CLAY (FILL), fine to medium sand, cohesive, low plasticity, light brown, moist	27.00						
28		28.60						
30	SW-SAND (FILL), trace silt, fine, medium and coarse grained, slightly consolidated, dark gray/black, wet			8GP		55		0.0 / 0.0
	CL-SANDY CLAY (FILL), fine to medium sand, cohesive, low plasticity, light brown, moist	30.40						
	SM-SILTY SAND (FILL), fine grained, well graded, red clay brick color/gray, wet	31.40						
32	GW/SW-GRAVEL/SAND (NATIVE), little silt, loose, medium to coarse sand, fine gravel, well graded, dark gray/brown, wet	32.00						
34				9GP		25		0.0 / 0.0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH174-18
DATE COMPLETED: 15 May 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
36								
38				10GP		60		0.0 / 0.0
40	END OF BOREHOLE @ 40.0ft BGS	40.00						
42								
44								
46								
48								
50								
52								
54								
56								
58								
60								
62								
64								
66								
68								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH175-17
DATE COMPLETED: 18 December 2017
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
2	SW-SILTY SAND (FILL), fine, medium and coarse grained, slightly consolidated, brown, moist - red clay brick dust at 1.6ft BGS	2.00		1DP		68		0 / 0
4	SW-SAND (FILL), slag, loose, fine to medium grained, brown/dark gray, dry - 3/16" piece of rubber at 2.7ft BGS - 2" red at 3.0ft BGS - black, some brown at 3.2ft BGS							
6								
8				2DP		68		0 / 0
10								
12				3DP		74		0 / 0
14			BACKFILLED WITH BENTONITE CHIPS	13-15' -008 NEG SUDAN IV				
16				NEG SUDAN IV 15.5-17.5' -009 4DP				
18	- wet at 17.8ft BGS					78		0 / 0
20								
22	GW-SANDY GRAVEL (NATIVE), loose, medium to coarse sand, well graded, brown, wet	22.60		5DP		78		0 / 0
24								
26								
28				6DP		60		0 / 0
30	END OF BOREHOLE @ 30.0ft BGS	30.00						
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH176-18
DATE COMPLETED: 16 May 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
2	SW-SAND (FILL), loose, medium to coarse grained, trace fine grained, well graded, black, dry - concrete fragments at 1.5ft BGS	1.50		1GP		50		0.0 / 0.0
4	CONCRETE/RED CLAY BRICK - concrete fragments at 1.5ft BGS - red clay/brick fragments at 1.7ft BGS	4.00						
6	CL-SILTY CLAY (FILL), trace fine sand, cohesive, brown, moist - concrete fragments at 6.0ft BGS - concrete fragments at 7.0ft BGS			2GP		50		0.0 / 0.0
8	SW-SAND (FILL), loose, fine, medium and coarse grained, well graded, black, dry	8.00						
10				3GP		40		0.0 / 0.0
12			BACKFILLED WITH BENTONITE CHIPS					
14				4GP		25		0.0 / 0.0
16	CL-SILTY CLAY (FILL), little coarse sand to fine gravel, cohesive, dark brown, moist	15.70						
18				5GP 18-20' -072		25		0.0 / 0.0
20	GW-GRAVEL (NATIVE), trace coarse sand, loose, fine grained, trace coarse grained, tan/brown, wet - wet at 22.0ft BGS	20.00						
22				6GP 2.15-22.5' NEG SUDAN IV		50		0.0 / 0.0
24	END OF BOREHOLE @ 24.0ft BGS	24.00						
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇
CHEMICAL ANALYSIS ◯

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH177-18
DATE COMPLETED: 16 May 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
	ML-SILT (FILL), trace fine sand, cohesive, dark brown, moist							
2	SW-SAND (FILL), foundry type sand, loose, fine to medium grained, well graded, black, dry	2.00		1GP		40		0.0 / 0.0
4								
6				2GP		0		NA / NA
8								
10			BACKFILLED WITH BENTONITE CHIPS	3GP		25		0.0 / 0.0
12	- wet at 11.7ft BGS			11-12' NEG SUDAN IV				
14				4GP		55		0.0 / 0.0
16								
18	- REFUSAL at 18.0ft BGS END OF BOREHOLE @ 18.0ft BGS	18.00		5GP		85		0.0 / 0.0
20								
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇

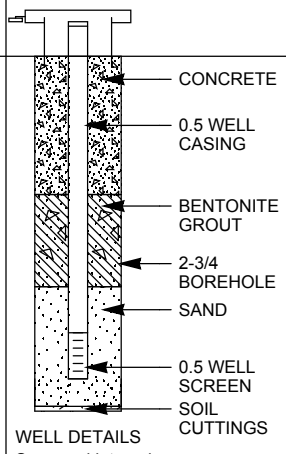
STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: GP01-18
DATE COMPLETED: 25 January 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE/A. FELDMAN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS
	CONCRETE SLAB	0.50
2	SW-GRAVELLY SAND (FILL), fine gravel, medium to coarse grained, slightly consolidated, well graded, dark brown, dry - 0.3' light brown at 3.3ft BGS - glass pieces at 3.9ft BGS - red clay brick at 4.1ft BGS - broken rock at 4.3ft BGS - increase in fine grained at 4.8ft BGS	
4		
6	- red clay brick at 5.5ft BGS	6.00
8	CL-SANDY CLAY (FILL), with fine gravel, coarse sand, slightly cohesive, low plasticity, light brown, moist - large glass pieces at 6.4ft BGS - 0.5' book pages at 7.0ft BGS - with fine gravel, medium grained, black at 8.0ft BGS	
10		10.00
12	- glass, metal pieces and concrete piece at 9.0ft BGS - wood chips and glass at 9.8ft BGS - red clay brick staining at 10.0ft BGS	
14	SW-SAND (FILL), with fine gravel, loose, medium to coarse grained, well graded, light gray, dry - light brown staining at 12.0ft BGS - slag piece at 12.9ft BGS - crushed rock fragment at 13.0ft BGS	13.30
16	ML-CLAYEY SILT (FILL), with medium to coarse sand, slightly cohesive, low plasticity, dark gray, moist - light brown rock fragments at 13.8ft BGS - glass chunks at 15.0ft BGS - asphalt at 15.5ft BGS	16.00
18		
20	GW-SANDY GRAVEL (NATIVE), loose, fine grained, trace coarse grained, well graded, light brown, dry - crushed rock fragment at 17.0ft BGS - crushed white quartz fragment at 17.5ft BGS - crushed rock fragment at 19.5ft BGS - crushed rock fragment at 19.8ft BGS	20.00
22		
	END OF BOREHOLE @ 20.0ft BGS	
24		
26		
28		

GAS PROBE



WELL DETAILS
Screened interval:
6.00 to 7.00ft BGS
Length: 1ft
Diameter: 0.5in
Material: TEFLON LINED POLYETHYLENE
Seal:
3.00 to 5.00ft BGS
Material: BENTONITE GROUT
Sand Pack:
5.00 to 7.70ft BGS
Material: SAND

SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
1DP		100		0 / 0
5.5-6.5 -064				2.3
2DP		74		0 / 0
3DP		62		0 / 0
4DP		82		0 / 0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

STRATIGRAPHIC LOG
(OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: GP03-18
DATE COMPLETED: 30 January 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE/A. FELDMAN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
2	SW-SAND (FILL), with silt and fine gravel, loose, medium to coarse grained, well graded, brown, moist - 0.2' concrete pieces at 1.0ft BGS - 0.1' concrete pieces at 2.0ft BGS		1DP		50		0 / 0
4	ML-CLAYEY SILT (FILL), with fine to medium sand, slightly cohesive, low plasticity, dark gray, wet	4.00					
	CONCRETE, dry	5.00					
6	SM-SILTY SAND (FILL), with fine gravel, loose, medium to coarse grained, well graded, brown, wet - dry at 6.7ft BGS	6.00	2DP		100		0 / 0
8	- 0.3' dry foundry type sand at 8.6ft BGS - light brown at 9.0ft BGS						
10	NO RECOVERY, sample blinded	10.00					
12			3DP		28		0 / 0
14	SM-SILTY SAND (FILL), foundry type sand, with fine gravel, loose, medium to coarse grained, well graded, brown, wet	13.60					0.1
16	NO RECOVERY, very soft material	15.00					
18			4DP		0		0 / 0
20	END OF BOREHOLE @ 20.0ft BGS	20.00					
22							
24							
26							
28							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

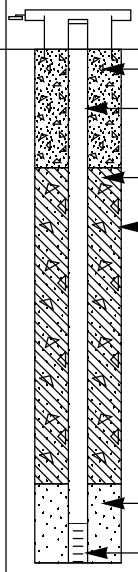
STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: GP07-18
DATE COMPLETED: 11 August 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS
	SM-GRAVELLY/SILTY SAND (FILL), consolidated, dark brown/dark gray, moist, odor	0.50
2	CL-SILTY CLAY (FILL), cohesive, dark gray, damp	1.50
4	SW/GW-SAND/GRAVEL (FILL), little silt, loose, medium to coarse sand, fine gravel, well graded, brown/tan, dry	4.20
6	SW-SAND (NATIVE), loose, fine to medium grained, trace coarse grained, medium brown, dry, strong petroleum odor	7.40
8	SW/GW-SAND/GRAVEL (NATIVE), little silt, loose, medium to coarse sand, fine gravel, well graded, brown/tan, dry	
10		
12		
14	- wet at 15.0ft BGS	
16	END OF BOREHOLE @ 16.0ft BGS	16.00
18		
20		
22		
24		
26		
28		
30		
32		
34		

GAS PROBE



WELL DETAILS
Screened interval:
12.00 to 13.00ft BGS
Length: 1ft
Diameter: 0.5in
Material: TEFLON LINED POLYETHYLENE
Seal:
3.00 to 11.00ft BGS
Material: BENTONITE GROUT
Sand Pack:
11.00 to 13.00ft BGS
Material: SAND

SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
1GP		38		32.4 / 0
2GP		50		1558 / 0
3GP		63		342 / 0
12-13				
4GP		60		15.2 / 0
NEG SUDAN IV				

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

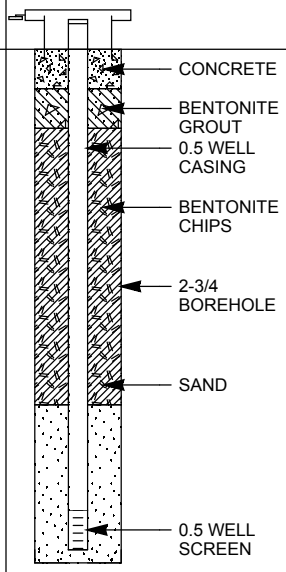
STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: GP08-19
DATE COMPLETED: 15 January 2019
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS
	ML-SILT, little clay, cohesive, dark brown, moist	
	SW-SAND, little fine gravel, loose, medium to coarse grained, trace fine grained, well graded, tan/brown, dry	5.00
	SW/GW-SAND/GRAVEL, loose, fine, medium and coarse sand, fine gravel, well graded, tan/brown, dry - iron staining at 11.0ft BGS - wet at 14.5ft BGS - increase in silt content at 15.0ft BGS	7.80
	END OF BOREHOLE @ 20.0ft BGS	20.00

GAS PROBE



WELL DETAILS
Screened interval:
11.67 to 12.67ft BGS
Length: 1ft
Diameter: 0.5in
Slot Size: 0.010
Material: TEFLON LINED POLYETHYLENE
Seal:
2.00 to 9.00ft BGS
Material: BENTONITE CHIPS
Sand Pack:
9.00 to 13.00ft BGS
Material: SAND

SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
1GP		54		0 / 0
2GP		52		0 / 0
3GP		60		0 / 0
11.67-12.67				
4GP 14.5-15.5' NEG SUDAN IV		52		0 / 0
5GP		44		0 / 0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇
CHEMICAL ANALYSIS ⬭

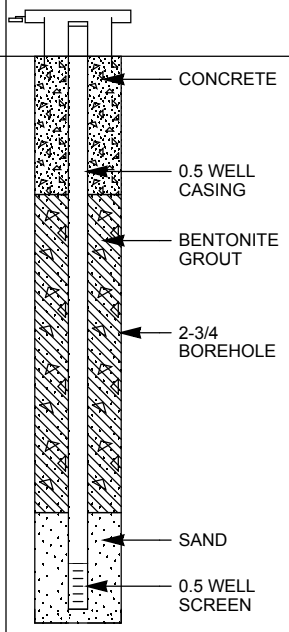
STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: GP19-18
DATE COMPLETED: 24 January 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE/A. FELDMAN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS
	TOPSOIL	0.10
2	GC-CLAYEY GRAVEL (FILL), with medium to coarse sand, fine grained, slightly consolidated, well graded, dark brown, dry - crushed rock at 1.0ft BGS - crushed rock at 3.2ft BGS	
4	- light brown staining at 4.1ft BGS	4.20
	SM-SILTY SAND (FILL), fine grained, slightly consolidated, well graded, light gray, dry	
6		
8		
	- medium grained, plastic pieces at 9.0ft BGS	
10	- medium to coarse grained at 10.0ft BGS - medium grained, plastic pieces at 10.2ft BGS	
12		
	- concrete piece at 13.2ft BGS	
14		
	- slag at 15.0ft BGS - plastic and glass pieces at 15.3ft BGS	
16	- wet at 16.0ft BGS	
18		
	CL-SANDY CLAY (FILL), fine to medium sand, cohesive, low plasticity, dark gray, moist	19.00
20	- transitions to native sandy material at 20.0ft BGS	20.00
	END OF BOREHOLE @ 20.0ft BGS	
22		
24		
26		
28		

GAS PROBE



WELL DETAILS
Screened interval:
11.00 to 12.00ft BGS
Length: 1ft
Diameter: 0.5in
Material: TEFLON LINED POLYETHYLENE
Seal:
2.80 to 9.90ft BGS
Material: BENTONITE GROUT
Sand Pack:
9.90 to 12.30ft BGS
Material: SAND

SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
1DP		66		0 / 0
2DP		46		0 / 0
				0.6
11-12'-063				1.6
3DP		50		0 / 0
4DP		94		0 / 0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

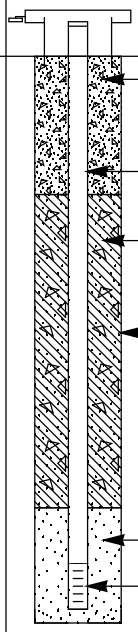
CHEMICAL ANALYSIS

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: GP20-18
DATE COMPLETED: 22 January 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE/A. FELDMAN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS
	SM-SILTY SAND (FILL), loose, fine to medium grained, trace coarse grained, well graded, brown, moist	0.50
	SW-GRAVELLY SAND (FILL), loose, fine gravel, medium grained, with coarse grained, well graded, light brown, dry	1.00
	SW-SAND (FILL), foundry type sand, loose, fine grained, slightly consolidated, well graded, dark gray, dry - slag pieces at 3.5ft BGS	3.50
	SM-SILTY SAND (FILL), foundry type sand, fine grained, trace medium grained, slightly consolidated, well graded, light gray, dry - 0.7' wet at 4.0ft BGS - crushed rock, with medium grained at 5.3ft BGS - 0.5' wet at 6.0ft BGS - crushed black rock material at 6.5ft BGS	6.70
	GM-SILTY GRAVEL (FILL), with medium to coarse sand, loose, fine grained, well graded, orangish brown, moist - glass pieces at 7ft BGS - 0.1' clay section at 8.7ft BGS	9.10
	CL-SANDY CLAY (FILL), trace fine gravel, medium sand, cohesive, low plasticity	10.00
	GW-SANDY GRAVEL (NATIVE), trace fine sand, loose, medium to coarse sand, fine grained, well graded, light brown, dry - crushed rock pieces at 12.5ft BGS - crushed rock pieces at 13.5ft BGS - rock at 15.0ft BGS - gray staining from 15.0 to 16.0ft BGS - crushed rock pieces at 19.7ft BGS	
	END OF BOREHOLE @ 20.0ft BGS	20.00



WELL DETAILS
Screened interval:
11.00 to 12.00ft BGS
Length: 1ft
Diameter: 0.5in
Material: TEFLON LINED POLYETHYLENE
Seal:
3.00 to 9.80ft BGS
Material: BENTONITE GROUT
Sand Pack:
9.80 to 12.30ft BGS
Material: SAND

SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
1DP		90		0 / 0
NEG SUDAN IV				0.5
2DP		70		0 / 0
11-12' -060 NEG SUDAN IV 3DP		64		0 / 0
4DP		88		0 / 0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

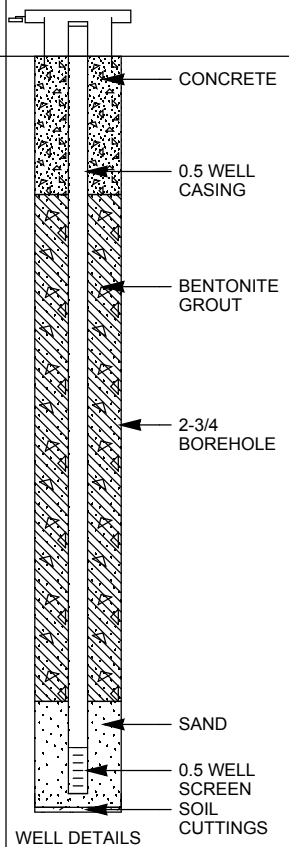
CHEMICAL ANALYSIS

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: GP25-18
DATE COMPLETED: 29 January 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE/A. FELDMAN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS
	SW-SAND (FILL), trace silt, loose, medium to coarse grained, little fine grained, well graded, black, moist - rock pieces at 0.7ft BGS	
	GC-GRAVELLY CLAY (FILL), fine gravel, cohesive, low plasticity, dark gray/olive green, moist - concrete fragments at 3.0ft BGS	2.50 3.20
	CL-CLAY (FILL), little fine gravel, cohesive, low plasticity, olive green, moist - 2 black medium grained foundry type sand at 3.9ft BGS	5.50
	SW-SAND (FILL), little silt, loose, medium to coarse grained, well graded, gray/olive green, dry - red clay brick powder/pieces at 8.9ft BGS	
	SW/GW-SAND/GRAVEL (FILL), loose, medium to coarse sand, fine gravel, well graded, dark gray/black, dry	10.00
	SW-SAND (FILL), trace silt, loose, fine to medium grained, well graded, black, dry - medium to coarse grained, gray at 16.0ft BGS - white clay brick fragments at 16.2ft BGS	14.50
	SW-SILTY SAND (FILL), medium to coarse grained, consolidated, rust/dark gray, dry	16.70
	END OF BOREHOLE @ 20.0ft BGS	20.00



WELL DETAILS
Screened interval:
15.00 to 16.00ft BGS
Length: 1ft
Diameter: 0.5in
Material: TEFLON LINED POLYETHYLENE
Seal:
3.00 to 14.00ft BGS
Material: BENTONITE GROUT
Sand Pack:
14.00 to 16.40ft BGS
Material: SAND

SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
1DP		74		0 / 0
				1.4
2DP		60		0 / 0
3DP		64		0 / 0
15-16' -057				
4DP		60		0 / 0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

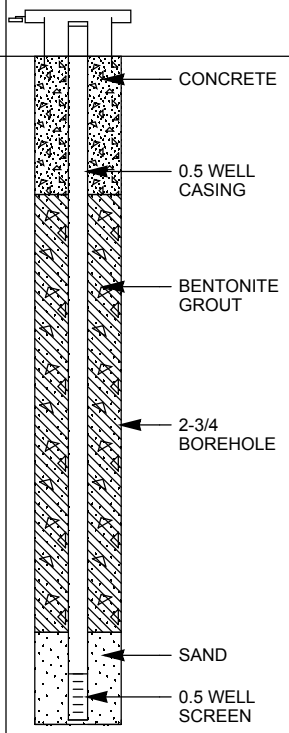
STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: GP26-18
DATE COMPLETED: 29 January 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE/A. FELDMAN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS
	TOPSOIL	0.25
	SW-SAND (FILL), trace fine gravel, loose, medium to coarse grained, well graded, dark gray/brown, dry	
	SW-SAND (FILL), trace fine gravel, loose, fine to medium grained, trace coarse grained, well graded, dark brown, dry	3.20
	- slag pieces at 4.0ft BGS	
	- increase in silt content, slightly consolidated, dark gray at 4.1ft BGS	5.40
	SW-SAND (FILL), trace silt, loose, fine, medium and coarse grained, well graded, gray/light gray, dry	
	- red clay brick at 13.0ft BGS	13.00
	SM-SILTY SAND (FILL), fine, medium and coarse grained, consolidated, dark gray	
	- red clay brick at 19.8ft BGS	20.00
	END OF BOREHOLE @ 20.0ft BGS	

GAS PROBE



WELL DETAILS
Screened interval:
13.40 to 14.40ft BGS
Length: 1ft
Diameter: 0.5in
Material: TEFLON LINED POLYETHYLENE
Seal:
3.00 to 12.50ft BGS
Material: BENTONITE GROUT
Sand Pack:
12.50 to 14.50ft BGS
Material: SAND

SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
1DP				0 / 0
2DP				0 / 0
3DP				0 / 0
13.5-14.5 -065				0.5
4DP				0 / 0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

OVERBURDEN LOG 038443-50-WATERLOO.GPJ CRA_CORP.GDT 15/5/19

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: GP27-18
DATE COMPLETED: 30 January 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE/A. FELDMAN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	GAS PROBE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
2, 4, 6, 8	SW-SAND (FILL), fine to medium grained, slightly consolidated, well graded, brown, dry - concrete pieces at 1.8ft BGS - 0.2' increase in silt content at 2.4ft BGS - with fine gravel, with coarse grained, dark gray at 2.7ft BGS - loose, increase in silt content at 5.0ft BGS		CONCRETE BENTONITE GROUT 0.5 WELL CASING 2-3/4 BOREHOLE SAND 0.5 WELL SCREEN SOIL CUTTINGS	1DP 2DP 7-8' -067		96 100		0 / 0 2.7 3.2 0 / 0
10, 12	SW-SAND (FILL), trace fine gravel, loose, fine to medium grained, with coarse grained, well graded, brown, dry - 0.5' metallic paper at 11.8ft BGS	9.60		3DP		80		0 / 0
14, 16, 18	SM-SILTY SAND (FILL), fine to medium grained, slightly consolidated, well graded, dark gray, dry - 0.2' multicolored frock fragments at 12.9ft BGS - 0.1' light green slag fragments at 13.4ft BGS - moist at 15.0ft BGS - wet at 17.0ft BGS - clayey, brown at 19.0ft BGS	12.40		4DP		82		0 / 0
20	END OF BOREHOLE @ 20.0ft BGS	20.00						

WELL DETAILS
Screened interval:
7.00 to 8.00ft BGS
Length: 1ft
Diameter: 0.5in
Material: TEFLON LINED POLYETHYLENE
Seal:
3.00 to 6.00ft BGS
Material: BENTONITE GROUT
Sand Pack:
6.00 to 8.10ft BGS
Material: SAND

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

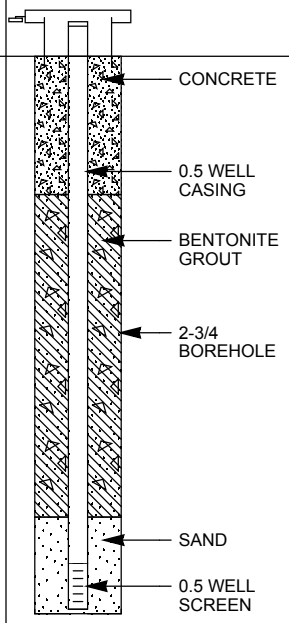
STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: GP28-18
DATE COMPLETED: 30 January 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE/A. FELDMAN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS
	SW-SAND (FILL), with fine gravel, loose, fine to medium grained, well graded, gray, dry	
2		
4	- wood chip at 4.0ft BGS - increase in silt content, moist at 4.0ft BGS	5.00
6	SM-SILTY SAND (FILL), with fine gravel, medium to coarse grained, slightly consolidated, well graded, brown, dry - concrete pieces at 6.0ft BGS	6.20
8	SW/SM-SAND (FILL), with silt, fine to medium grained, slightly consolidated, well graded, dark gray, dry - plastic pieces and wood chips at 7.6ft BGS	7.60
10	NO RECOVERY, sample blinded	10.00
	GW-SANDY GRAVEL (FILL), loose, medium to coarse sand, fine grained, well graded, gray/brown, dry - large wood chips at 10.5ft BGS	10.50
12	NO RECOVERY, sample blinded	
14		14.50
	GM-SILTY GRAVEL (FILL), with clay, fine grained, slightly consolidated, well graded, brown/gray, dry	15.00
16	SM-SILTY SAND (FILL), foundry type sand, loose, fine grained, trace medium grained, well graded, dark gray, dry - 0.1' brown staining at 15.5ft BGS - 0.2' concrete pieces at 18.0ft BGS - increase in moisture content at 18.0ft BGS	
18		
20	END OF BOREHOLE @ 20.0ft BGS	20.00
22		
24		
26		
28		

GAS PROBE



WELL DETAILS
Screened interval:
11.00 to 12.00ft BGS
Length: 1ft
Diameter: 0.5in
Material: TEFLON LINED POLYETHYLENE
Seal:
3.00 to 10.00ft BGS
Material: BENTONITE GROUT
Sand Pack:
10.00 to 12.10ft BGS
Material: SAND

SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
1DP		44		0 / 0
2DP		52		8.3 0 / 0
				1.4
3DP		24		0 / 0
15-16'-068				456
4DP		50		0 / 0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

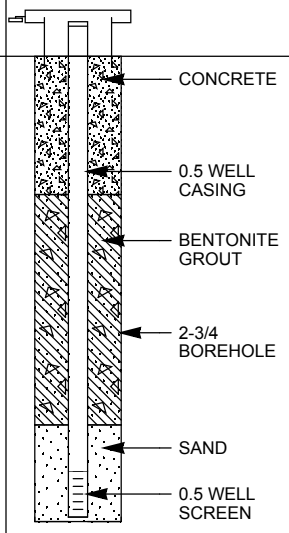
CHEMICAL ANALYSIS

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: GP29-18
DATE COMPLETED: 30 January 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE/A. FELDMAN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS
	TOPSOIL	0.20
	GW-SANDY GRAVEL (FILL), loose, medium to coarse sand, trace fine sand, fine grained, well graded, brown/gray, dry - 0.2' clay material, slightly consolidated at 1.0ft BGS - intermixed with crushed slag at 1.0ft BGS	
	GM-SILTY GRAVEL (FILL), with fine sand, fine grained, consolidated, well graded, brown, moist - 0.1' concrete pieces at 6.5ft BGS	5.70 6.50
	SM-SILTY SAND (FILL), fine grained, slightly consolidated, well graded, dark brown, dry - 0.1' iron staining at 8.4ft BGS - slag pieces at 9.0ft BGS - 0.1' pink staining at 10.0ft BGS	
	- 0.6' increase in clay content, poorly graded, moist at 13.0ft BGS - moist from 13.0 to 15.0ft BGS	
	- with clay, purple ink from 17.0 to 18.0ft BGS	
	- REFUSAL at 18.5ft BGS	18.50
	END OF BOREHOLE @ 18.5ft BGS	



WELL DETAILS
Screened interval:
9.00 to 10.00ft BGS
Length: 1ft
Diameter: 0.5in
Material: TEFLON LINED POLYETHYLENE
Seal:
3.00 to 8.00ft BGS
Material: BENTONITE GROUT
Sand Pack:
8.00 to 10.10ft BGS
Material: SAND

SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
1DP		60		0 / 0
2DP		68		0 / 0
9-10' -069				0.6
3DP		82		0 / 0
4DP		100		0 / 0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

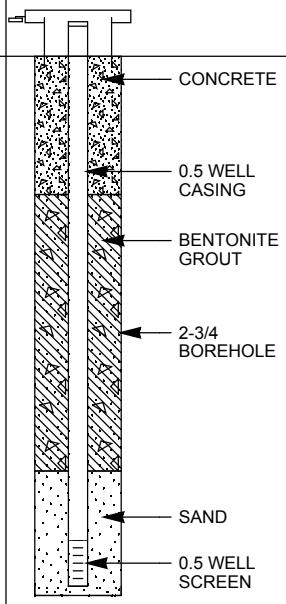
CHEMICAL ANALYSIS

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: GP30-18
DATE COMPLETED: 17 January 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS
	TOPSOIL, grass	0.20
	GW-SANDY GRAVEL (FILL), loose, medium to coarse sand, fine grained, well graded, light brown, dry	0.50
2	SM-SILTY SAND (FILL), fine grained, slightly consolidated, well graded, gray, dry	1.40
4	GW-SANDY GRAVEL (FILL), medium to coarse sand, fine grained, slightly consolidated, well graded, light brown, dry, glass pieces, plastic pieces	4.00
6	SM-SILTY SAND (FILL), fine grained, slightly consolidated, gray, dry	5.00
8	SM-SILTY SAND (FILL), fine grained, trace coarse grained, slightly consolidated, well graded, light gray, wet	5.50
10	GM-SILTY GRAVEL (FILL), with medium to coarse sand, fine grained, slightly consolidated, well graded, orangish brown, moist - glass pieces at 9.2ft BGS	9.50
12	GW-SAND GRAVEL (NATIVE), medium to coarse sand, fine to coarse grained, slightly consolidated, well graded, light brown, dry - broken rock at 10.5ft BGS	
14	- dark brown staining at 15.1ft BGS	
16	- light gray rock at 16.5ft BGS - 0.2' light brown sand at 17.0ft BGS	
18	- light gray rock at 18.5ft BGS	
20	- light gray rock at 19.5ft BGS END OF BOREHOLE @ 20.0ft BGS	20.00
22		
24		
26		
28		



WELL DETAILS
Screened interval:
10.50 to 11.50ft BGS
Length: 1ft
Diameter: 0.5in
Material: TEFLON LINED POLYETHYLENE
Seal:
3.00 to 9.00ft BGS
Material: BENTONITE GROUT
Sand Pack:
9.00 to 11.70ft BGS
Material: SAND

SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
1DP		58		0 / 0
2DP		42		0 / 0
10.5-11.5 -049				
3DP		74		0 / 0
4DP		84		0 / 0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

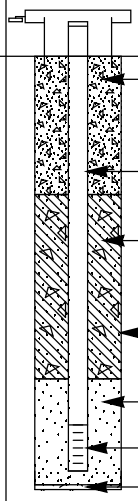
PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: GP31-18
DATE COMPLETED: 19 January 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS
	ASPHALT	0.17
	SW-SAND (FILL), foundry type sand, loose, medium to coarse grained, some fine grained, well graded, black/dark gray, dry - red clay brick fragments at 1.0ft BGS - yellow/tan brick fragments from 1.7 to 1.9ft BGS - rust staining at 2.0ft BGS - fine grained, gray, moist from 2.4 to 2.6ft BGS - little coarse gravel pieces at 2.8ft BGS - little coarse gravel pieces at 4.7ft BGS - slag fragments at 5.3ft BGS	5.80 6.40
	CL-CLAY (FILL), trace silt and fine sand, cohesive, low plasticity, dark brown, moist - fine gravel pieces at 6.0ft BGS	
	SW-SAND (NATIVE), with fine gravel, loose, fine, medium and coarse grained, well graded, tan/off white, dry	
	GM-SILTY GRAVEL, fine grained, slightly cohesive, well graded, medium brown, dry	18.00
	SW-SAND, loose, fine to medium grained, well graded, light brown/tan, dry	19.20 20.00
	END OF BOREHOLE @ 20.0ft BGS	

2 4 6 8 10 12 14 16 18 20 22 24 26 28

GAS PROBE



WELL DETAILS
Screened interval:
8.00 to 9.00ft BGS
Length: 1ft
Diameter: 0.5in
Material: TEFLON LINED POLYETHYLENE
Seal:
3.00 to 7.00ft BGS
Material: BENTONITE GROUT
Sand Pack:
7.00 to 9.30ft BGS
Material: SAND

SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
1DP		76		0 / 0
2DP		78		0 / 0
8-9'-056				
3DP		80		0 / 0
4DP		60		0 / 0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

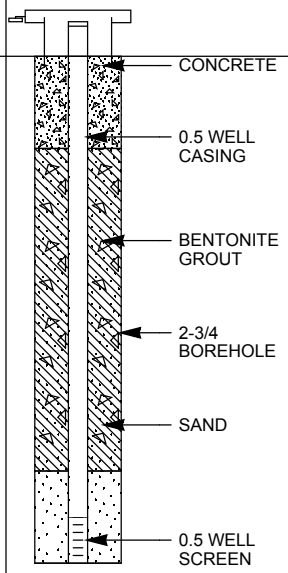
STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: GP32-18
DATE COMPLETED: 10 January 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS
	GW-SANDY GRAVEL (FILL), few silt, loose, fine, medium and coarse sand, fine grained, well graded, dark gray/light brown, moist	1.00
2	SW-GRAVELLY SAND (FILL), few silt, fine gravel, fine, medium and coarse grained, slightly consolidated, well graded, dark gray/black, moist	2.00
4	- 0.2' section light brown sand and coarse gravel at 1.8ft BGS	
	SW-SAND (FILL), with fine gravel, fine to medium grained, slightly consolidated, well graded, dark gray, dry	
6	- 0.2' dark brown at 3.0ft BGS	
	- 0.1' dark brown at 4.7ft BGS	
	- fine gravel pieces, slough at 5.1ft BGS	
8	- yellowish/orange coarse gravel piece at 6.5ft BGS	8.00
	SM-SILTY SAND (FILL), fine to medium grained, slightly consolidated, well graded, light gray, dry	9.70
10	SW-SAND (FILL), loose, medium to coarse grained, well graded, light brown, dry	
12		
14	- coarse gravel pieces, glass, and white powder at 14.0ft BGS	
	- increase in silt content, fine gravel pieces, yellowish orange at 14.7ft BGS	
16		
18		
	- tan at 18.9ft BGS	19.00
20	SW-SAND (FILL), with fine gravel, medium to coarse grained, slightly consolidated, well graded, light gray, dry	19.80
	SW-GRAVELLY SAND (FILL), loose, fine gravel, medium to coarse grained, well graded, dark brown/orange, dry	20.00
22	END OF BOREHOLE @ 20.0ft BGS	
24		
26		
28		

GAS PROBE



WELL DETAILS
Screened interval:
10.00 to 11.00ft BGS
Length: 1ft
Diameter: 0.5in
Material: TEFLON LINED POLYETHYLENE
Seal:
2.00 to 9.00ft BGS
Material: BENTONITE GROUT
Sand Pack:
9.00 to 11.00ft BGS
Material: SAND

SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
				2.2
1DP		70		0 / 0
2DP		66		0 / 0
10-11'-037				
3DP		20		0 / 0
4DP		32		0 / 0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

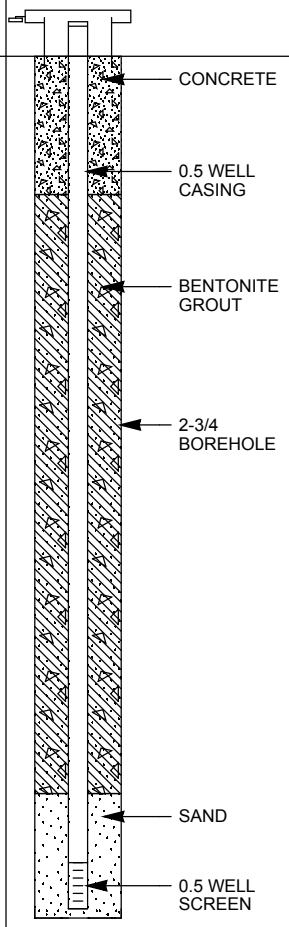
STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: GP33-18
DATE COMPLETED: 22 January 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS
	SW-SAND (FILL), loose, fine to medium grained, well graded, dark brown, moist	1.00
2	SW-GRAVELLY SAND (FILL), with fine gravel, loose, medium to coarse grained, well graded, brown, dry	2.30
4	SM-SILTY SAND (FILL), with fine gravel, slightly consolidated, well graded, dark brown, dry	3.60
6	SW-GRAVELLY SAND (FILL), medium to coarse grained, with fine grained, slightly consolidated, well graded, dark brown, dry - black cinders at 3.7ft BGS - yellowish brown staining at 4.3ft BGS	6.00
8	SM-SILTY SAND, foundry type sand, fine grained, trace coarse grained, consolidated, well graded, light gray, dry	
10	- moist at 11.0ft BGS	
12	GW-SAND GRAVEL (FILL), loose, medium to coarse sand, fine grained, well graded, orangish brown, dry	12.00
14	CL-SANDY CLAY (FILL), fine sand, with medium sand, cohesive, slightly compact, brown, dry	14.00
16		
18	GW-SANDY GRAVEL (NATIVE), loose, medium to coarse sand, fine grained, well graded, light brown, dry	17.00
20	END OF BOREHOLE @ 20.0ft BGS	20.00
22		
24		
26		
28		

GAS PROBE



WELL DETAILS
Screened interval:
17.50 to 18.50ft BGS
Length: 1ft
Diameter: 0.5in
Material: TEFLON LINED POLYETHYLENE
Seal:
3.00 to 16.00ft BGS
Material: BENTONITE GROUT
Sand Pack:
16.00 to 18.70ft BGS
Material: #3 SAND

SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
1DP		70		0 / 0
2DP		94		0 / 0
3DP		40		0 / 0
4DP 17.5-18.5 -078 NEG SUDAN IV		88		0 / 0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

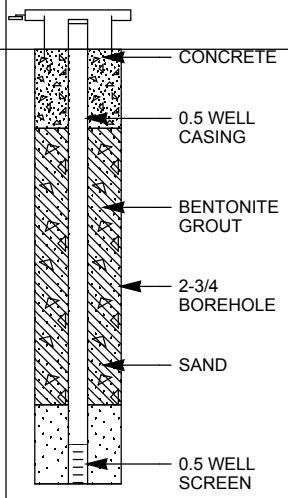
STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: GP34-18
DATE COMPLETED: 31 July 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS
	TOPSOIL, silt, grass	0.50
2	SW/GW-SAND/GRAVEL (FILL), loose, fine sand, fine gravel, well graded, tan/off-white, dry	
4	SM-SILTY SAND (FILL) (foundry type sand), slightly consolidated, fine grained, well graded, gray, dry	3.50 4.00 4.50
6	SW/GW-SAND/GRAVEL (FILL), loose, fine sand, fine gravel, well graded, tan/off-white, dry	
	SW-SAND (FILL), loose, fine to medium grained, well graded, brown/dark gray, dry	7.50
8	SM-SILTY SAND (FILL), consolidated, fine grained, dark brown, dry	9.00
10	SW/GW-SAND/GRAVEL (NATIVE), loose, medium to coarse sand, fine gravel, well graded, tan/light brown, dry	
12		
14		
16		
18		
20		
22	- wet at 22.3ft BGS	
24	END OF BOREHOLE @ 24.0ft BGS	24.00
26		
28		
30		
32		
34		

GAS PROBE



WELL DETAILS
Screened interval:
10.00 to 11.00ft BGS
Length: 1ft
Diameter: 0.5in
Material: TEFLON LINED POLYETHYLENE
Seal:
2.00 to 9.00ft BGS
Material: BENTONITE GROUT
Sand Pack:
9.00 to 11.00ft BGS
Material: SAND

SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
1GP		75		0 / 0
2GP		40		0 / 0
3GP 10-11'		55		0 / 0
4GP		53		0 / 0
5GP		63		0 / 0
6GP NEG SUDAN IV		65		0 / 0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇
CHEMICAL ANALYSIS ⬭

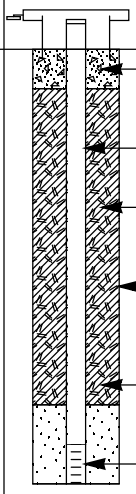
STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: GP35-19
DATE COMPLETED: 15 January 2019
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS
	TOPSOIL	0.17
	ML-SILT, little clay cohesive, dark brown, moist	1.00
2	SW/GW-SAND/GRAVEL, loose, fine, medium and coarse sand, fine gravel, well graded, tan/brown, dry	
4		
6	- 2" silty sand at 5.7ft BGS	
8		
10		
12		
14		
16	- wet at 15.7ft BGS	
18		
20	END OF BOREHOLE @ 20.0ft BGS	20.00
22		
24		
26		
28		
30		
32		
34		

GAS PROBE



WELL DETAILS
Screened interval:
10.00 to 11.00ft BGS
Length: 1ft
Diameter: 0.5in
Slot Size: 0.010
Material: TEFLON LINED POLYETHYLENE
Seal:
1.00 to 9.00ft BGS
Material: BENTONITE CHIPS
Sand Pack:
9.00 to 11.00ft BGS
Material: SAND

SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
1GP		35		0 / 0
2GP		56		0 / 0
3GP 10-11'		63		0 / 0
4GP 14.5-15.5' NEG SUDAN IV		63		0 / 0
5GP		40		0 / 0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇
CHEMICAL ANALYSIS ◯

Table 1a

Summary of Stratigraphy
OU1 - Surface Soil Sample Locations
South Dayton Dump Landfill Site
Moraine, Ohio

OU1	Location ID	Date	GHD Supervisor	Stratigraphy Depth (ft BGS) From	Stratigraphy Depth (ft BGS) To	Sample Description	Sampling Method	Recovery (inches)	PID/FID (ppm)	Sample Interval Depth (ft BGS) From	Sample Interval Depth (ft BGS) To	Chemical Analysis	Radiation
EU1	SS-37	11/20/2018	Jason Close	0	2	SM-SAND/SILT, slightly consolidated, fine to medium to coarse sand, little fine gravel, well graded, dark grey, moist	Hand Auger	24	0	0	2	JC-037	0
	SS-38 / SS-41 / SS-153-AS	11/20/2018	Jason Close	0	2	SM-SAND/SILT, slightly consolidated, well graded, fine to medium to coarse sand, little fine gravel, trace coarse gravel, brown, moist	Hand Auger	24	0	0	2	JC-038 / JC-041 / JC-153	0
	SS-39 / TT41	11/1/2017	Bart Williams	0	3	See Stratigraphy log for TT41	DPT	n/a	0.4	0	2	BW-013/BW-014	0
	SS-40 / SS-122/ SS-154-AS	11/20/2018	Jason Close	0	2	SW-SAND, some silt, some fine gravel, fine to medium to coarse sand, slightly consolidated, well graded, brown, moist	Hand Auger	24	0	0	2	JC-040 / JC-122 / JC-154	0
	SS-42	11/27/2018	Andy Schwartz	0	0.67		Hand Auger		2.9	0	0.67	AS-042	0
	SS-43	11/27/2018	Andy Schwartz	0 0.17	0.17 1	Topsoil CL-SILTY CLAY (FILL) See Stratigraphy log for BH104-17	Hand Auger		0	0.17	1	AS-043	0
	SS-44	11/27/2018	Andy Schwartz	0 0.08	0.08 1	Topsoil CL-SILTY CLAY (FILL) See Stratigraphy log for BH102-17	Hand Auger		0	0.08	1	AS-044	0
	SS-45 / SS-124 / SS-155-AS	11/27/2018	Andy Schwartz	0 0.17	0.17 1.5	Topsoil CL-SILTY CLAY (FILL) See Stratigraphy log for BH103-17	Hand Auger		93.7	0.17	1.5	AS-045	0
EU2	SS-14	11/20/2018	Jason Close	0 0.5	0.5 2	ML-SILT, trace clay, consolidated, trace fine to medium sand, brown, moist CL-CLAY, trace silt, trace medium to coarse sand, cohesive, low to medium plasticity, brown, moist	Hand Auger	24	0	0	2	JC-014	0
	SS-15	11/120/18	Jason Close	0 0.5	0.5 2	ML-SILT, trace clay, little fine to medium sand, cohesive, brown, moist CL-CLAY, trace silt, cohesive, low to medium plasticity, brown, moist	Hand Auger	24	0	0	2	JC-015	0
	SS-16 / SS-148 / SS-156-AS	11/20/2018	Jason Close	0 0.5	0.5 2	ML-SILT, trace clay, slightly consolidated, trace medium to coarse sand, brown, moist CL-CLAY, cohesive, trace silt, low to medium plasticity, brown, moist	Hand Auger	24	0	0	2	JC-016 / JC-148 / JC-156	0
	SS-17	11/20/2018	Jason Close	0 0.67	0.67 2	ML-SILT, trace clay, slightly cohesive, brown, moist CL-CLAY, little silt, cohesive, trace silt, low plasticity, brown, trace medium to coarse sand, moist	Hand Auger	24	0	0	2	JC-017	0
	SS-18 / SS-152 / SS-157-AS	11/20/2018	Jason Close	0 0.67	0.67 2	ML-SILT, consolidated, trace fine to medium to coarse sand, trace clay, brown, moist CL-CLAY, cohesive, low plasticity, brown, trace silt, moist	Hand Auger	24	0	0	2	JC-018 / JC-152 / JC-157	0
EU3	SS-146 / BH152-18	5/29/2018	Jason Close	0	2	ML-CLAYEY SILT (FILL) See stratigraphy log for BH152-18	DPT		0	0	2	JC-098	0
	SS-147 / BH153-18	5/29/2018	Jason Close	0	2	ML-CLAYEY SILT (FILL) See stratigraphy log for BH153-18	DPT		0	0	2	JC-091	0
	SS-149 / BH155-18	5/29/2018	Jason Close	0	2	ML-CLAYEY SILT (FILL) See stratigraphy log for BH155-18	DPT		0	0	2	JC-095	0
	SS-150 / BH154-18	5/29/2018	Jason Close	0	2	ML-CLAYEY SILT (FILL) See stratigraphy log for BH154-18	DPT		0	0	2	JC-093	0
	SS-151 / BH156-18	5/16/2018	Jason Close	0	2	ML-SILT (FILL) See stratigraphy log for BH156-18	DPT		0	0	2	JC-073	0
	SS-153 / BH157-18	5/17/2018	Jason Close	0 0.6	0.6 2	SW-SAND (FILL) See stratigraphy log for BH157-18 ML-SILT (FILL) See stratigraphy log for BH157-18	DPT		0	0	2	JC-075	0
EU4	SS-138 / BH146-18	5/17/2018	Jason Close	0 1	1 2	SM-SAND SILT (FILL) See stratigraphy log for BH146-18 ML-SILT (FILL) See stratigraphy log for BH146-18	DPT		0	0	2	JC-081 / JC-081	0
	SS-139 / BH147-18	5/17/2018	Jason Close	0	2	SW-SAND (FILL) See stratigraphy log for BH147-18	DPT		0	0	2	JC-076	0
	SS-140 / BH148-18	5/17/2018	Jason Close	0 0.17 1.5	0.17 1.5 2	GP-GRAVEL (FILL) See stratigraphy log for BH148-18 CL-SILTY CLAY (FILL) See stratigraphy log for BH148-18 ML-SILT (FILL) See stratigraphy log for BH148-18	DPT		0	0.17	2.17	JC-078	0
	SS-142 / BH150-18	5/29/2018	Jason Close	0 1 1.2	1 1.2 2	CL-CLAY (FILL) See stratigraphy log for BH150-18 SW-SAND (FILL) See stratigraphy log for BH150-18 CL-CLAY (FILL) See stratigraphy log for BH150-18	DPT		0	0	2	JC-085	0
	SS-144 / BH149-18	5/29/2018	Jason Close	0 0.17 0.83	0.17 0.83 2	Topsoil ML-CLAYEY SILT (FILL) See stratigraphy log for BH149-18 CL-SILTY CLAY (FILL) See stratigraphy log for BH149-18	DPT		0	0.17	2.17	JC-087	0
	SS-145 / BH151-18	5/29/2018	Jason Close	0	2	ML-CLAYEY SILT (FILL) See stratigraphy log for BH151-18	DPT		0	0	2	JC-089	0
EU5	SS-101 / SS-158-AS	11/2/2018	Jason Close	0 0.25	0.25 2	TOPSOIL/GRASS SW-SAND, medium to coarse sand, some fine gravel, loose, well graded, brown to black, moist	Hand Auger	24	0	0.25	2.25	JC-101/JC-158	0
	SS-123 / BH133-18	5/31/2018	Jason Close	0 0.3	0.3 2	TOPSOIL/GRAVEL SW-SILTY SAND (FILL) See stratigraphy log for BH133-18	DPT		0	0.3	2.3	JC-116	0
EU6	SS-116 / BH130-18	5/30/2018	Jason Close	0	2	SW-SAND (FILL) See stratigraphy log for BH130-18	DPT		0	0	2	JC-111	0
	SS-120 / BH132-18	5/31/2018	Jason Close	0	2	SW-SAND (FILL) See stratigraphy log for BH132-18	DPT		0	0	2	JC-118	0
EU7	SS-102 / BH125-18	5/30/2018	Jason Close	0 0.42	0.42 2	SW-SAND (FILL) See stratigraphy log for BH125-18 ML-SANDY SILT (FILL) See stratigraphy log for BH125-18	DPT		0	0	2	JC-104 / JC-105	0
	SS-103 / BH129-18	5/30/2018	Jason Close	0 0.83	0.83 2	SW-SILTY SAND (FILL) See stratigraphy log for BH129-18 ML-SILT (FILL) See stratigraphy log for BH129-18	DPT		0	0	2	JC-102	0
	SS-104 / BH126-18	5/30/2018	Jason Close	0 1.2	1.2 2	SW-SAND (FILL) See stratigraphy log for BH126-18 ML-SANDY SILT (FILL) See stratigraphy log for BH126-18	DPT		0	0	2	JC-100	0
	SS-109 / BH127-18	5/30/2018	Jason Close	0 0.83	0.83 2	SW-SAND (FILL) See stratigraphy log for BH127-18 ML-SILT (FILL) See stratigraphy log for BH127-18	DPT		0	0	2	JC-109	0
	SS-112 / BH128-18	5/30/2018	Jason Close	0 1.7	1.7 2	SW-SAND See stratigraphy log for BH128-18 ML-SILT (FILL) See stratigraphy log for BH128-18	DPT		0	0	2	JC-107	0
EU8	SS-98 / BH122-18	5/31/2018	Jason Close	0 0.17 0.92	0.17 0.92 2	GP-GRAVEL (FILL) See stratigraphy log for BH122-18 ML-SANDY SILT (FILL) See stratigraphy log for BH122-18 SW-SILTY SAND (FILL) See stratigraphy log for BH122-18	DPT		0	0.17	2.17	JC-114	0
	SS-99 / SS-159-AS	11/2/2018	Jason Close	0 0.25	0.25 2	TOPSOIL/GRASS SW/GW-SAND/GRAVEL, medium to coarse sand, little silt, fine gravel, loose, well graded	Hand Auger	24	0	0.25	2.25	JC-099/JC-159	0
	SS-100 / SS-160-AS	11/2/2018	Jason Close	0 0.17 1	0.17 1 2	TOPSOIL SW-SAND, fine sand, little fine gravel, trace cobble, loose, well graded, brown, moist GW-GRAVEL (Slag), fine gravel, loose, black to gray, moist	Hand Auger	24	0	0.17	2.17	JC-100/JC-121FD/JC-160	0

Table 1a

Summary of Stratigraphy
OU1 - Surface Soil Sample Locations
South Dayton Dump Landfill Site
Moraine, Ohio

OU1	Location ID	Date	GHD Supervisor	Stratigraphy Depth (ft BGS) From	To	Sample Description	Sampling Method	Recovery (inches)	PID/FID (ppm)	Sample Interval Depth (ft BGS) From	To	Chemical Analysis	Radiation
EU9	SS-86 / TP17	11/2/2017	Bart Williams	0	2	SW/GW-SAND/GRAVEL (FILL) See stratigraphy log for TP17	Excavator		0.7	0	2	BW-015	0
	SS-87 / SS-161-AS	10/31/2018	Jason Close	0	0.5	TOPSOIL	DPT	26	0.3 @ 2.5 ft BGS	0.5	2.5	JC-087 / JC-161	0
				0.5	5	SW/GW-SAND/GRAVEL, silty, loose, well graded, brown, dry							
	SS-88 / SS-91	10/31/2018	Jason Close	0	0.5	TOPSOIL/GRASS	DPT	32	0.2 @ 4 ft BGS	0.5	2.5	JC-088 / JC-091	0
				0.5	4.5	SW/GW-SAND/GRAVEL, fine to medium to coarse sand, fine gravel, loose, well graded, tan/brown, dry							
				4.5	5	SW-SILTY SAND, fine to medium to coarse sand, slightly consolidated, well graded, dark brown to black , moist							
	SS-90 / SS-162-AS	10/31/2018	Jason Close	0	0.17	TOPSOIL/GRASS/GRAVEL	DPT	48	0.5 @ 3 ft BGS	0.17	2.17	JC-90 / JC-162	0
				0.17	0.75	ML-SILT, gravely sand, slightly cohesive, brown, dry							
				0.75	2.3	SW-SAND, medium to coarse sand, trace fine gravel, brown/tan, dry							
				2.3	2.9	ML-SILT, cohesive, trace coarse sand, trace fine gravel, brown, moist							
				2.9	4.7	SW/GW-SAND/GRAVEL, fine sand, fine gravel, loose, well graded, brown, dry							
				4.7	5	CL-CLAY, cohesive, trace fine gravel, brown, moist							
	SS-92	10/31/2018	Jason Close	0	5	SW/GW-SAND/GRAVEL, fine to medium coarse sand, fine gravel, loose, well graded, gray/black, dry, odor @4.8 ft bgs red clay brick	DPT	45	32 @ 3.5 ft BGS	0	2	JC-92	0
	SS-93	10/31/2018	Jason Close	0	5	SW-SAND, fine to medium to coarse sand, little fine gravel, loose well graded, trace silt, brown/dark grey/off-white, dry	DPT	48	1.2 @ 3 ft BGS	0	2	JC-93	0
EU10	SS-32 / SS-85 / SS-164-AS	10/31/2018	Jason Close	0	0.25	TOPSOIL/GRASS	DPT	48	0	0.25	2.25	JC-032 / JC-085 / JC-164	0
				0.25	3.5	SW/GW-SAND/GRAVEL, fine to medium to coarse sand, fine gravel, loose, well graded, tan/brown, dry							
				3.5	5	ML-SILT, trace fine gravel, coarse sand, cohesive, dark brown, dry @4.5 ft bgs red clay brick fragment							
	SS-78	10/31/2018	Jason Close	0	1.3	SW-SAND, fine to coarse sand, loose, well graded, tan/brown, dry	DPT	55	0	0	2	JC-078	n/a
				1.3	3.5	ML-CLAYEY SILT, cohesive, trace sand, brown, dry							
				3.5	4	SW-SAND, medium to coarse sand, loose, well graded, grey/off-white, dry							
				4	5	SW-SAND, fine to medium sand, loose, well graded, brown/black, dry							
	SS-79	10/31/2018	Jason Close	0	2.4	SW-SAND, fine to medium to coarse, loose, well graded, tan/brown, brown	DPT	43	0	0	2	JC-079	n/a
				2.4	3.5	ML-CLAYEY SILT, trace fine to medium sand, cohesive, brown, dry							
				3.5	5	SW-SAND, fine to medium to coarse, loose, well graded, brown to grey, dry							
	SS-80	10/31/2018	Jason Close	0	2	SW-SAND, fine to medium to coarse sand, trace fine gravel	DPT	43	0	0	2	JC-080	n/a
				2	2.3	ML-SILT, clayey, cohesive, brown, dry							
				2.3	4	SW/GW-SAND/GRAVEL, medium to coarse sand, fine gravel, loose, well graded, tan/brown, dry							
				4	5	SW-SAND, fine to medium san, loose, well graded, grey, moist							
	SS-81 / SS-163-AS	10/31/2018	Jason Close	0	0.33	TOPSOIL/GRASS	DPT	48	27.3 @ 3 ft BGS	0.33	2.33	JC-081 / JC-163	n/a
				0.33	3	ML-SILT, cohesive, trace fine gravel and fine to medium sand, brown, moist							
				3	4	SW-SAND, medium to coarse sand, loose, well graded, tan/grey, dry							
				4	5	CL-SILTY CLAY, cohesive dense, trace fine gravel and coarse sand, brown, moist							
	SS-82	10/31/2018	Jason Close	0	2.7	SW-SAND, fine to medium to coarse grained, trace fine gravel, loose, well graded, tan/off-white/dark grey	DPT	54	12.2 @ 2.5 ft BGS	0	2	JC-082	n/a
				2.7	5	SW-SAND, fine to medium sand, little to some silt, slightly consolidated, well graded, black, dry							
	SS-83	10/31/2018	Jason Close	0	3.4	SW-SAND, fine to medium to coarse sand, loose, well graded, trace fine gravel, tan/off-white/grey, dry	DPT	48	0.3 @ 2.5 ft BGS	0	2	JC-083	n/a
				3.4	5	ML-SILT, cohesive, trace fine sand, grey, dry							
	SS-84	10/31/2018	Jason Close	0	2	SW/GW-SAND/GRAVEL	DPT	53	0.5 @ 2.5 ft BGS	0	2	JC-084	n/a
				2	5	ML-SILT, little clay, trace fine to coarse sand, cohesive, brown							
EU11	SS-25 / TP13	1/1/2017	Bart Williams	0	2	SP-SAND (FILL) See stratigraphy log for TP13	Excavator		0.7	0	2	BW-011	0
	SS-70	10/30/2018	Jason Close	0	4.2	SW/GW-SAND/GRAVEL, medium to coarse sand, fine gravel, loose, well graded, dark grey, dry	DPT	36	0	0	2	JC-070	0
				4.2	5	CL-GRAVELLY CLAY, cohesive, trace fine gravel, dark brown, moist							
	SS-71	10/30/2018	Jason Close	0	3.6	SW/GW-SAND/GRAVEL, loose, well graded, medium to coarse sand, fine gravel, brown/grey/tan, dry	DPT		0.3 @ 3.5 ft BGS	0	2	JC-071	n/a
				3.6	5	SW-SAND, medium to coarse, little fine gravel, loose, well graded, black, dry (red clay brick fragments)							
	SS-72 / SS-165-AS	10/30/2018	Jason Close	0	0.5	TOPSOIL/GRASS	DPT	42	0	0.5	2.5	JC-072 / JC-165	n/a
				0.5	4.5	ML-SILT, little clay, cohesive, trace medium to coarse sand							
	SS-73	10/30/2018	Jason Close	0	0.17	TOPSOIL/GRASS	DPT	44	0	0.17	2.17	JC-073	n/a
				0.17	4	ML-SILT, trace medium to coarse sand, fine gravel, cohesive, brown, moist							
				4	5	SW-SAND, medium to coarse sand, loose well graded, dark grey/dark brown/black, dry							
	SS-74	10/30/2018	Jason Close	0	2	ML-SILT, cohesive, little fine gravel and coarse sand, loose, well graded, brown, dry	DPT	48	0	0	2	JC-074	n/a
				2	5	SW-SILTY SAND/GRAVEL, slightly consolidated, medium to coarse sand, trace fine gravel, brown, dry							
	SS-75 / SS-77 / SS-166-AS	10/30/2018	Jason Close	0	0.5	TOPSOIL/GRASS	DPT	44	0	0.5	2.5	JC-075 / JC-077 / JC-166	n/a
				0.5	2.8	ML-SILT, cohesive, trace coarse sand and fine gravel, grey/brown, moist							
				2.8	3.5	Red clay brick							
				3.5	5	SW-SAND, fine to medium, silty, slightly consolidated, well graded, brown, dry							
	SS-76	10/30/2018	Jason Close	0	1.1	SW-SAND, fine to medium to coarse sand, trace fine gravel, loose, well graded, black , dry	DPT	54	0.3 @ 4 ft BGS	0	2	JC-076	n/a
				1.1	2.5	SW/GW-SAND/GRAVEL, fine to medium to coarse sand, fine gravel, loose, well graded, off-white/tan, dry							
				2.5	5	SW-SAND, medium to coarse sand, some fine gravel, loose, well graded, black, dry, red clay brick fragments							
EU12	SS-62	10/30/2018	Jason Close	0	0.17	ASPHALT	DPT	42	0	0.17	2.17	JC-062	n/a
				0.17	3.7	SW/GW-SAND/GRAVEL, loose, well graded, medium to coarse sand, fine gravel, little silt, brown, dry							
				3.7	4.3	Concrete fragments							
				4.3	5	SW-SAND, medium to coarse sand, loose, well graded, black/grey							
	SS-63	10/30/2018	Jason Close	0	0.17	TOPSOIL/GRASS	DPT		0	0.17	2.17	JC-063	n/a
				0.17	5	SW-SAND, medium to coarse sand, loose, well graded, trace fine gravel, brown/black, dry							
	SS-64 / SS-89 / SS-167-AS	10/30/2018	Jason Close	0	5	SW-SAND, medium to coarse sand, trace fine gravel, loose, well graded, dark grey, dry (foundry sand/slag)	DPT	36	0	0	2	JC-064 / JC-89 / JC-167	n/a
	SS-65	10/30/2018	Jason Close	0	0.25	TOPSOIL	DPT	36	0	0.25	2.25	JC-065 / JC-118	n/a
				0.25	5	SW-SAND, medium to coarse sand, trace fine gravel, loose, well graded, black, dry							
	SS-66	10/30/2018	Jason Close	0	0.17	ASPHALT	DPT	24	0.4 @ 2.5 ft BGS	0.17	2.17	JC-066	n/a
				0.17	5	SW/GW-SAND/GRAVEL, loose, well graded, medium to coarse sand, fine gravel, silty, brown, dry to moist							
	SS-67	10/30/2018	Jason Close	0	0.17	ASPHALT	DPT	30	0.2 @ 2.5 ft BGS	0.17	2.17	JC-067	n/a
				0.17	2	SW/GW-SAND/GRAVEL, medium to coarse sand, fine gravel							
				2	5	ML-SANDY, GRAVELLY, SILT, cohesive, fine to medium sand, trace fine gravel, brown to dark brown, moist							
	SS-68	10/30/2018	Jason Close	0	0.17	TOPSOIL/GRASS	DPT	36	0	0.17	2.17	JC-086	n/a
				0.17	5	SW/GW-SAND/GRAVEL, medium to coarse sand, fine gravel, loose, well graded, brown, dry							
	SS-69	10/30/2018	Jason Close	0	0.33	TOPSOIL/GRASS	DPT	42	7 @ 4.5 ft BGS	0.33	2.33	JC-069	n/a
				0.33	5	SW-SILTY SAND, fine to medium to coarse sand, slightly consolidated, well graded, dark brown to black , moist (foundry sand/slag)							

Table 1a

Summary of Stratigraphy
OU1 - Surface Soil Sample Locations
South Dayton Dump Landfill Site
Moraine, Ohio

OU1	Location ID	Date	GHD Supervisor	Stratigraphy Depth (ft BGS) From	To	Sample Description	Sampling Method	Recovery (inches)	PID/FID (ppm)	Sample Interval Depth (ft BGS) From	To	Chemical Analysis	Radiation
EU13	SS-54	10/30/2018	Jason Close	0	0.25	ASPHALT	DPT	30	1 @ 3 ft BGS	0.25	2.25	JC-054 / JC-117	n/a
				0.25	2	SW-SAND, medium to coarse sand, little fine gravel, loose, well graded, brown, dry							
				2	4.5	SW-SAND, fine to medium sand, loose, slightly consolidated, well graded, black/brown, moist							
				4.5	5	SM-SILT/SAND, consolidated, well graded, fine to medium sand, brown/dark grey, moist							
	SS-55	10/29/2018	Jason Close	0	5	SW-SAND, fine to medium to coarse sand, loose, well graded, black, dry (foundry sand)	DPT	42	0	0	2	JC-055 / JC-115	n/a
	SS-56	10/30/2018	Jason Close	0	4	SW-SILTY SAND, fine medium to coarse sand, little fine gravel, slightly consolidated, well graded, brown, dry	DPT	42	2.4 @ 2.5 ft BGS	0	2	JC-056	n/a
				4	5	SW-SAND, fine to medium sand, loose, well graded, brown, dry							
	SS-57	10/30/2018	Jason Close	0	0.25	ASPHALT	DPT	30	2.5 @ 4.3 ft BGS	0.25	2.25	JC-057	n/a
				0.25	3.5	SW-SAND, medium to coarse sand, loose well graded, brown, dry							
				3.5	4.5	ML-SILT, cohesive, little fine sand, grey, moist							
				4.5	5	SP-SAND, fine grained, silt, poorly graded, grey, wet							
	SS-58 / TT40	11/3/2017	Bart Williams	0	2	SW/GW-SAND/GRAVEL (FILL) See stratigraphy log for TT40	Excavator		31.3	0	2	BW-021	n/a
	SS-59 / SS-094 / SS-168-AS		Jason Close	0	5	SW-SAND, medium to coarse sand, little fine gravel, trace silt, loose well graded, dark grey/black, dry	DPT	30	13 @ 2.5 ft BGS	0	2	JC-059 / JC-094 / JC-168	n/a
	SS-60	10/30/2018	Jason Close	0	0.17	ASPHALT	DPT	42	0	0.17	2.17	JC-060	n/a
				0.17	1	SW-SAND, medium to coarse sand, loose, well graded, little fine gravel, brown, dry							
				1	5	SW-SAND (foundry sand), fine to medium sand, loose, well graded, black, dry							
	SS-61	10/30/2018	Jason Close	0	5	SW-SAND (foundry sand), medium to coarse sand, little fine gravel, loose, well graded, black/dark brown, dry @3-5 ft bgs glass fragments	DPT	30	0	0	2	JC-061	n/a
EU14	SS-46 / SS-169-AS	10/30/2018	Jason Close	0	5	SW-SAND, medium to coarse sand, little fine gravel, loose, well graded, brown to dark brown, dry @3.5 ft BGS glass fragments	DPT	36	0	0	2	JC-046/JC-169	n/a
	SS-47	11/2/2018	Jason Close	0	2	SW/GW-SAND/GRAVEL, well graded, loose, brown to gray, moist, medium to coarse sand, fine gravel @1 ft BGS 1-inch cobble	Hand Auger	24	0	0	2	JC-047	n/a
	SS-48	10/29/2018	Jason Close	0	0.25	ASPHALT	DTP	36	0	0.25	2.25	JC-048	n/a
				0.25	3.5	SW-SAND, loose, well graded, medium to coarse sand, little fine gravel, dark gray to black to dark brown, dry, perched water at 3.5 ft bgs							
				3.5	5	SM-SILT, sandy, consolidated, fine to medium grained sand, dark gray, wet							
	SS-49 / SS-52 / SS-170-AS	10/29/2018	Jason Close	0	5	SW-SAND, silty, slightly consolidated, fine to coarse grained sand, well graded, black to dark brown, gray, dry @3.5-5.0 ft bgs foundry sand	DPT	36	0	0	2	JC-049/JC-052/JC-170	n/a
	SS-50	10/29/2018	Jason Close	0	0.17	GRAVEL BASE	DPT	36	2.1 @4.3 ft BGS	0.17	2.17	JC-050	n/a
				0.17	2	SW/GW-SAND/GRAVEL, medium to coarse grained sand, fine gravel, loose, well graded, dark gray to black, dry							
	SS-51	10/29/2018	Jason Close	0	0.25	ASPHALT	DPT	30	0	0.25	2.25	JC-051	n/a
				0.25	5	SW-SAND, silty, fine to medium to coarse grained sand, loose, well graded, dark gray to black, dry @4 ft BGS increase in silt content, moist							
	SS-53	10/29/2018	Jason Close	0	5	SW - SAND, med-coarse sand, little fine gravel, loose, well graded, dark brown to black, dry (glass fragments)	DPT	48	0	0	2	JC-053	n/a
EU15	SS-130	10/29/2018	Jason Close	0	0.25	GRAVEL BASE	DPT	54	0	0.25	2.25	JC-130 / JC-114	n/a
				0.25	3	CL-CLAY, cohesive, silty, trace fine gravel, coarse sand, brown							
				3	5	SW/GW-SAND/GRAVEL, loose, well graded, medium to coarse sand, fine gravel, brown/tan, dry							
	SS-131	10/29/2018	Jason Close	0	4.5	SW/GW-SAND/GRAVEL, loose well graded fine gravel, medium to coarse sand, brown, tan, dry	DPT	42	0	0	2	JC-131	n/a
				4.5	5	SW-SAND (black foundry sand), fine to medium coarse, loose, well graded, black, dry							
	SS-132 / TT43	11/8/2017	Bart Williams	0	0.7	GRAVEL BASE	Excavator		44.2	0.7	2.7	BW-031 / BW-032	0
				0.7	2	SW/GW-SAND/GRAVEL (FILL) See stratigraphy log for TT43							
	SS-133	10/29/2018	Jason Close	0	0.5	SAND BLAST MATERIAL	DPT	36	1.7 @ 3 ft BGS	0.5	2.5	JC-133	n/a
				0.5	5	SW-SILTY SAND, fine to medium to coarse grained (foundry sand, glass, slag), brown/dark brown/black, dry							
	SS-134	10/29/2018	Jason Close	0	0.25	ASPHALT	DPT	48	0	0.92	2.92	JC-134	n/a
				0.25	0.92	GRAVEL BASE							
				0.92	5	SW-SAND, fine to medium to coarse sand, loose, well graded, grey/dark grey, dry (foundry sand)							
	SS-135	10/29/2018	Jason Close	0	0.25	ASPHALT	DPT		0.4 @ 3 ft BGS	0.25	2.25	JC-135	n/a
				0.25	5	SW-SAND, medium to coarse sand, trace to little fine gravel, loose, well graded, brown/dark brown, dry, trace glass/slag							
	SS-136 / SS-125 / SS-171-AS	10/29/2018	Jason Close	0	5	SW-SAND, fine to medium to coarse sand, loose, well graded, black, foundry sand @ 3.5-5 ft bgs grey foundry sand, fine to medium sand	DPT	42	146 @ 4.5 ft BGS	0	2	JC-136 / JC-125 / JC-171	n/a
	SS-137 / SS-172-AS	10/29/2018	Jason Close	0	0.17	TOPSOIL/GRASS	DPT	30	0	0.17	2.17	JC-137 / JC-172	n/a
				1.7	0.5	GW/SW-SAND/GRAVEL, medium to coarse sand, fine gravel, loose, well graded, brown/tan, dry							
				0.5	5	SW-SAND, medium to coarse sand, trace fine gravel, brown/tan, loose, well graded, dry							
	SS-141 / SS-173-AS	10/29/2018	Jason Close	0	5	SW/GW-SAND/GRAVEL, fine to medium to coarse, grained sand, fine gravel, loose, well graded, brown/tan, dry @ 3-5 ft bgs slag, cinders, glass	DPT	36	0	0	2	JC-141 / JC-173	n/a
	SS-143	10/29/2018	Jason Close	0	1.5	SW/GW-SAND/GRAVEL, loose, well graded, brown/tan, medium to coarse sand, dry, pieces of glass	DPT	24	0	0	2	JC-143	n/a
				1.5	2	SW-SAND, (black foundry sand), loose, fine to medium sand, well graded, black, dry							
EU17	SS-1 / TP8	11/9/2017	Bart Williams	0	2	SW/GW-SAND/GRAVEL See stratigraphy log for TP8	Excavator		>2000	0	2	BW-039	0
	SS-2 / TP9	11/9/2017	Bart Williams	0	0.2	TOPSOIL	Excavator		71	0.2	2.2	BW-037	0
				0.2	2	SP-SAND (FILL) See stratigraphy log for TP9							
	SS-3 / TP10	11/9/2017	Bart Williams	0	0.3	TOPSOIL	Excavator		0	0.3	2.3	BW-034 / BW-035	0
				0.3	2	SP-SAND (FILL) See stratigraphy log for TP10							
	SS-95 / SS-174	12/20/2018	Jason Close	0	2	See Stratigraphy log for SS-2/TP-9	Hand Auger	24	0	0	2	JC-095/JC-174	0
	SS-4 / SS-96 / SS-175-AS	12/20/2018	Jason Close	0	2	TOPSOIL/ML-silt, cohesive, brown, trace clay, moist, trace fine sand	Hand Auger	24	0	0	2	JC-004/JC-096/JC-175	0
	SS-5	12/20/2018	Jason Close	0	0.33	TOPSOIL/ML-SILT, consolidated, brown, moist	Hand Auger	24	0	0.33	2.33	JC-005/JC-226FD	0
				0.33	2	SW-SAND, silty, fine to coarse sand, loose, well graded, dark brown, moist							
	SS-6 / SS-97 / SS-176-AS	12/20/2018	Jason Close	0	0.33	ML-SILT, slightly cohesive, trace fine sand, dark brown, moist	Hand Auger	24	0	0.33	2.33	JC-006/JC-097	0
				0.33	2	SM-SILTY SAND, fine to coarse sand, consolidated, trace fine gravel, dark brown, moist							
	SS-7	12/20/2018	Jason Close	0	2	SW-SAND, silty, medium to coarse grained, slightly consolidated, well graded, dark brown, moist	Hand Auger	24	0	0	2	JC-007	0
	SS-8 / SS-127 / SS-177-AS	12/20/2018	Jason Close	0	2	ML-SILT, slightly cohesive, trace fine sand, brown, moist	Hand Auger	24	0	0	2	JC-008/JC-127/JC-177	0
	SS-9 / SS-128	12/20/2018	Jason Close	0	2	SM-SILTY SAND, slightly consolidated, fine sand, well graded, dark brown, moist	Hand Auger	24	0	0	2	JC-009/JC-128	0
	SS-10 / SS-178-AS	12/20/2018	Jason Close	0	2	ML-SILT, trace fine sand, trace fine gravel, slightly cohesive, dark brown, moist	Hand Auger	24	0	0	2	JC-010/JC-178	0
	SS-11 / SS-129	12/20/2018	Jason Close	0	2	ML-SILT, trace fine sand, trace fine gravel, slightly cohesive, dark brown, moist	Hand Auger	24	0	0	2	JC-011/JC-129	0

Table 1a

Summary of Stratigraphy
OU1 - Surface Soil Sample Locations
South Dayton Dump Landfill Site
Moraine, Ohio

OU1	Location ID	Date	GHD Supervisor	Stratigraphy Depth (ft BGS) From	To	Sample Description	Sampling Method	Recovery (inches)	PID/FID (ppm)	Sample Interval Depth (ft BGS) From	To	Chemical Analysis	Radiation
EU18	SS-26 / SS-105 / SS-179-AS	10/26/2018	Jason Close	0	1.75	SW-SAND, fine to medium sand, loose, well graded, black, moist, roots	Hand Auger	24	0.1	0	2	JC-026 / JC-105 / JC-179	0
				1.75	2	SW/GW-SAND/GRAVEL, medium to coarse sand, fine gravel, loose, well graded, brown/black, moist, slag							
	SS-27	10/26/2018	Jason Close	0	2	SW-SAND, fine to medium to coarse sand, loose well graded, black/brownish orange/tan, moist	Hand Auger	24	4	0	2	JC-027	0
	SS-28	10/26/2018	Jason Close	0	1.83	SW-SAND, medium to coarse sand, loose, well graded, silty, black/brown, wet	Hand Auger	24	0.1	0	2	JC-028	0
				1.83	2	SM-SILT/SAND, consolidated, fine to medium sand, well graded, black, wet							
	SS-33 / SS-180-AS	10/26/2018	Jason Close	0	0.17	ORGANICS and PLASTIC WASTE	Hand Auger	24	0	0.17	2.17	JC-033 / JC-180	0
				0.17	24	SW/GW-SAND/GRAVEL, silty, fine to medium coarse sand, fine gravel, loose, well graded, black/dark brown, most							
	SS-34	10/26/2018	Jason Close	0	2	SW-SILTY SAND, slightly consolidated, well graded, fine to medium to coarse sand, brown/black, moist	Hand Auger	24	0	0	2	JC-034	0
EU19	SS-20 / TP11	10/31/2017	Bart Williams	0	2	SP-SAND (FILL) See stratigraphy log for TP11	Excavator		0.2	0	2	BW-005	0
	SS-183-AS	11/16/2018	Jason Close	0	0.5	SP-SAND (FILL) See stratigraphy log for TP11	Hand Auger			0	0.5	JC-183	
	SS-21 / SS-106 / SS-181-AS	11/19/2018	Jason Close	0	2	SW-SAND, fine to medium coarse sand, trace fine gravel, loose, well graded, black, moist	Hand Auger	24	0	0	2	JC-021 / JC-106 / JC-181	0
	SS-22 / TT32	11/7/2017	Bart Williams	0	2	SW-SAND (FILL) See stratigraphy log for TT32	Excavator		73.4	0	2	BW-029	0
	SS-108 / SS-184-AS	11/16/2018	Jason Close	0	2	SW-SAND (FILL) See stratigraphy log for TT32	Hand Auger			0	2	JC-108 / JC-184	
	SS-23 / SS-107 / SS-182-AS	11/19/2018	Jason Close	0	2	SW/GW-SAND/GRAVEL, medium to coarse grained sand, fine gravel, loose, well graded, black, moist	Hand Auger	24	0	0	2	JC-023 / JC-107 / JC-182	0
	SS-24 / TT34	11/7/2017	Bart Williams	0	2	SW-SAND (FILL) See stratigraphy log for TT34	Excavator		0.7	0	2	BW-026	0
	SS-185-AS	11/16/2018	Jason Close	0	0.5	SW-SAND (FILL) See stratigraphy log for TT34	Hand Auger			0	0.5	JC-185	
	SS-29 / TP14	10/31/2017	Bart Williams	0	2	SW/GW-SAND/GRAVEL See stratigraphy log for TP14	Excavator		14.2	0	2	BW-003	0
	SS-189-AS	11/16/2018	Jason Close	0	0.5	SW/GW-SAND/GRAVEL See stratigraphy log for TP14	Hand Auger			0	0.5	JC-189	
	SS-30 / TT38	11/1/2017	Bart Williams	0	2	SW/GW-SAND/GRAVEL See stratigraphy log for TT38	Excavator		27.1	0	2	BW-019	0
	SS-111 / SS-187-AS	11/16/2018	Jason Close	0	2	SW/GW-SAND/GRAVEL See stratigraphy log for TT38	Hand Auger			0	2	JC-111 / JC-187	
	SS-31 / TT39	11/2/2017	Bart Williams	0	2	SW/GW-SAND/GRAVEL (FILL) See stratigraphy log for TT39	Excavator		16.1	0	2	BW-017	0
	SS-110 / SS-186-AS	11/19/2018	Jason Close	0	2	SW/GW-SAND/GRAVEL (FILL) See stratigraphy log for TT39	Hand Auger					JC-110 / JC-126/ JC-186	
	SS-35 / TP15	10/30/2017	Bart Williams	0	2	SW/GW-SAND/GRAVEL (FILL) See stratigraphy log for TP15	Excavator		478	0	2	BW-001	0
	SS-113 / SS-188-AS	11/16/2018	Jason Close	0	2	SW/GW-SAND/GRAVEL (FILL) See stratigraphy log for TP15	Hand Auger			0	2	JC-113 / JC-188	
	SS-36 / TP16	10/31/2017	Bart Williams	0	2	SW-SAND (FILL) See stratigraphy log for TP16	Excavator		0.3	0	2	BW-007	0
	SS-190-AS	11/19/2018	Jason Close	0	0.5	SW-SAND (FILL) See stratigraphy log for TP16	Hand Auger			0	0.5	JC-190	
	SS-191-AS	11/19/2018	Jason Close	0	0.5	GW-SILTY GRAVEL (FILL) See stratigraphy log for BH96-18	Hand Auger			0	0.5	JC-191	
	SS-192-AS	11/19/2018	Jason Close	0	0.5	SP-SAND (FILL) See stratigraphy log for TP12	Hand Auger			0	0.5	JC-192	

Table 1b

Summary of Soil Stratigraphy
Great Miami River Floodplain and Background Floodplain Sample Locations
South Dayton Dump Landfill Site
Moraine, Ohio

Floodplain Location ID	Date	Time	GHD Supervisor	Stratigraphy Depth (ft BGS) From	To	Sample Description	Sampling Method	Recovery (inches)	PID/FID (ppm)	Sample Interval Depth (ft BGS) From	To	Chemical Analysis	Radiation
SS-164	8/6/2018	1:35	Jason Close	0	0.17	TOPSOIL/GRASS	Hand Auger	6	0	0	0.17	JC-122	0
				0.17	2	ML-SILT, loose, brown, dry, trace medium to coarse sand, trace fine gravel		18	0	0.17	2.17	JC-123	0
SS-165	8/6/2018	14:28	Jason Close	0	0.17	TOPSOIL/GRASS	Hand Auger	6	0	0	0.17	JC-124/JC-125	0
						ML-SILT, loose, brown, trace fine to medium sand, fine gravel, dry		18	0	0.17	2.17	JC-126	0
				0.17	1.2	Refusal @ 1.2 ft BGS							
SS-166	8/7/2018	8:35	Jason Close	0	0.17	TOPSOIL/GRASS	Hand Auger	6	0	0	0.17	JC-127	0
				0.17	2	ML-SILT, loose, brown, trace medium to fine sand, trace coarse to fine gravel, dry		18	0	0.17	2.17	JC-128	0
SS-167	8/7/2018	9:47	Jason Close	0	0.17	TOPSOIL/GRASS	Hand Auger	6	0	0	0.17	JC-129	0
				0.17	1.25	ML-SILT, loose, brown, dry, trace fine to medium sand, trace fine gravel, trace clay							
				1.25	2	SW-SAND, fine to medium sand, loose, well graded, brown, dry		18	0	0.17	2.17	JC-130	0
SS-168	8/7/2018	10:35	Jason Close	0	0.17	TOPSOIL/GRASS	Hand Auger	6	0	0	0.17	JC-131	0
				0.17	2	CL-SILTY CLAY, cohesive, dark brown, dry		18	0	0.17	2.17	JC-132	0
SS-169	8/7/2018	11:05	Jason Close	0	0.17	TOPSOIL/GRASS	Hand Auger	6	0	0	0.17	JC-134	0
						CL/ML-SILT/CLAY, slightly cohesive, brown, dry, trace fine sand							
				0.17	2	@1.83 ft bgs piece of aluminum bag		18	0	0.17	2.17	JC-135	0
SS-170	8/7/2018		Jason Close	0	0.17	TOPSOIL/GRASS	Hand Auger	6	0	0	0.17	JC-136	0
				0.17	2	ML/CL-CLAY/SILT, cohesive, brown, low plasticity, dry		18	0	0.17	2.17	JC-137	0
SS-171	8/7/2018		Jason Close	0	0.17	TOPSOIL/GRASS	Hand Auger	6	0	0	0.17	JC-138	0
				0.17	2	ML-CLAYEY SILT, loose, brown, dry, trace fine sand		18	0	0.17	2.17	JC-139	0
SS-172	8/7/2018		Jason Close	0	0.17	TOPSOIL/GRASS	Hand Auger	6	0	0	0.17	JC-141	0
				0.17	2	ML-SILT, little clay, trace fine sand, loose, brown, dry		18	0	0.17	2.17	JC-142	0
SS-173	8/8/2018		Jason Close	0	0.17	TOPSOIL/GRASS	Hand Auger	6	0	0	0.17	JC-143	0
				0.17	0.75	ML-SILT, trace clay, loose, brown, dry, trace fine sand							
				0.75	2	SW-SAND, fine to medium to coarse sand, loose, well graded, brown/tan, dry, trace silt		18	0	0.17	2.17	JC-144	0
SS-174	8/8/2018	11:03	Jason Close	0	0.17	TOPSOIL/GRASS	Hand Auger	6	0	0	0.17	JC-145	0
				0.17	0.75	ML-SILT, trace clay, loose, brown, dry, trace fine sand							
				0.75	2	SW-SAND, fine to medium to coarse sand, loose, well graded, brown/tan, dry		18	0	0.17	2.17	JC-146	0
SS-175	8/8/2018	11:35	Jason Close	0	0.17	TOPSOIL/GRASS	Hand Auger	6	0	0	0.17	JC-148	0
				0.17	1.17	ML-SILT, little fine sand, trace clay, slightly cohesive, brown, dry							
				1.17	2	SW-SAND, medium to coarse sand, trace silt and fine sand, loose, well graded, brown/tan, dry		18	0	0.17	2.17	JC-149	0

Table 1b

Summary of Soil Stratigraphy
Great Miami River Floodplain and Background Floodplain Sample Locations
South Dayton Dump Landfill Site
Moraine, Ohio

Background Floodplain	Date	Time	GHD Supervisor	Stratigraphy Depth (ft BGS) From	Stratigraphy Depth (ft BGS) To	Sample Description	Sampling Method	Recovery (inches)	PID/FID (ppm)	Sample Interval Depth (ft BGS) From	Sample Interval Depth (ft BGS) To	Chemical Analysis	Radiation
SS-201	12/10/2018	12:20 12:25	Jason Close	0	2	ML-SILT, trace clay, slightly cohesive, brown, moist, some fine gravel, trace coarse sand	Hand Auger	24	0	0 0.5	0.5 2	JC-201 JC-218	0
SS-202	12/10/2018	12:10 12:15	Jason Close	0	2	ML-SILT, trace clay, slightly cohesive, brown, moist	Hand Auger	24	0	0 0.5	0.5 2	JC-202 JC-219	0
SS-203	12/10/2018	11:50 11:55	Jason Close	0	2	ML-SILT, trace clay	Hand Auger	24	0	0 0.5	0.5 2	JC-203 JC-220	0
SS-204	12/10/2018	11:40 11:45	Jason Close	0	2	ML-SILT, trace clay, slightly cohesive	Hand Auger	24	0	0 0.5	0.5 2	JC-204 JC-221/JC-200	0
SS-205	12/10/2018	11:30 11:35	Jason Close	0	2	ML-SILT, trace clay	Hand Auger	24	0	0 0.5	0.5 2	JC-205 JC-22	0
SS-206	12/10/2018	10:50 10:55	Jason Close	0	2	ML-SILT, trace clay, slightly cohesive, brown, moist	Hand Auger	24	0	0 0.5	0.5 2	JC-206 JC-223	0
SS-207	12/10/2018	10:40 10:45	Jason Close	0	2	ML-SILT, trace clay, slightly cohesive, brown, moist	Hand Auger	24	0	0 0.5	0.5 2	JC-207 JC-224	0
SS-208	12/10/2018	10:25 10:32	Jason Close	0	2	ML-SILT, trace clay, slightly cohesive, brown, moist	Hand Auger	24	0	0 0.5	0.5 2	JC-208 JC-225/JC-119	0

Table 1c

Summary of Soil Stratigraphy
Ora Everett Park Background Sample Locations
South Dayton Dump Landfill Site
Moraine, Ohio

Background Ora Everett Park Location ID	Date	Time	GHD Supervisor	Stratigraphy Depth (ft BGS) From	To	Sample Description	Sampling Method	Recovery (inches)	PID/FID (ppm)	Sample Interval Depth (ft BGS) From	To	Chemical Analysis	Radiation
SS-209	12/7/2018	10:50	Jason Close	0 0.42	0.42 2	TOPSOIL/ML-SILT, slightly cohesive, brown CL-SILTY CLAY, cohesive, dense, low to medium plasticity, brown, moist	Hand Auger	24	0	0.42	2.42	JC-209	0
SS-210	12/7/2018	10:40	Jason Close	0 0.33	0.33 2	TOPSOIL/ML-SILT, slightly cohesive, brown CL-SILTY CLAY, cohesive, low to medium plasticity, brown, moist	Hand Auger	24	0	0.33	2.33	JC-210	0
SS-211	12/7/2018	9:50	Jason Close	0 0.42	0.42 2	TOPSOIL/ML-SILT, slightly cohesive, brown, moist CL-SILTY CLAY, cohesive, low to medium plasticity, brown, moist	Hand Auger	24	0	0.42	2.42	JC-211	0
SS-212	12/7/2018	9:40	Jason Close	0 0.33	0.33 2	TOPSOIL/ML-SILT, slightly cohesive, brown, moist CL-SILTY CLAY, cohesive, low to medium plasticity, brown, moist	Hand Auger	24	0	0.33	2.33	JC-212	0
SS-213	12/7/2018	9:20	Jason Close	0 0.42	0.42 2	TOPSOIL/ML-SILT, slightly cohesive, brown, moist CL-SILTY CLAY, cohesive, low to medium plasticity, brown, moist	Hand Auger	24	0	0.42	2.42	JC-213	0
SS-214	12/7/2018	9:10	Jason Close	0 0.42	0.42 2	TOPSOIL/ML-SILT, slightly cohesive, brown, moist CL-SILTY CLAY, cohesive, low to medium plasticity, brown, moist	Hand Auger	24	0	0.42	2.42	JC-214	0
SS-215	12/7/2018	9:00	Jason Close	0 0.33	0.33 2	TOPSOIL/ML-SILT, slightly consolidated, brown, moist CL-SILTY CLAY, cohesive, dense, low to medium plasticity, brown, moist	Hand Auger	24	0	0.33	2.33	JC-215	0
SS-216	12/7/2018	9:45	Jason Close	0 0.42	0.42 2	TOPSOIL/ML-SILT, slightly consolidated, brown, moist CL-SILTY CLAY, cohesive, low to medium plasticity, brown, moist	Hand Auger	24	0	0.42	2.42	JC-216/JC-217	0

Appendix B
Soil/Fill Sample Information and Data Validation Reports

Table 1

Soil Sample List - Operable Unit 1
South Dayton Dump and Landfill Site
Moraine, Ohio

Matrix	EU	Sample Location	Sample ID	Sample Date	Sample Depth	Sample Type	X	Y	Method	Volatiles	Semi-Volatiles	Metals	Metals (Lead Speciation)	PCBs	Pesticides	Herbicides	Petroleum Products	Dioxin/ Furans	Asbestos	Geotechnical	General Chemistry
SO	on-site (EU01)	BH102-17	S-38443-120717-JC-004	12/7/2017	4.5-6.5 ft BGS		1484308.34	632784.48	1	X	X	X		X	X				X		X
SO	on-site (EU01)	BH103-17	S-38443-120717-JC-002	12/7/2017	3-5 ft BGS		1484410.97	632792.02	1	X	X	X		X	X				X		X
SO	on-site (EU01)	BH104-17	S-38443-120717-JC-003	12/7/2017	3-5 ft BGS		1484316.81	632672.16	1	X	X	X		X	X				X		X
SO	on-site (EU01)	BH158-17	S-38443-120617-JC-001	12/6/2017	3-5 ft BGS		1484406.80	632920.84	1			X									
SO	on-site (EU01)	SS-37	SS-38443-112018-JC-037	11/20/2018	0-2 ft BGS		1484211.48	632971.96	2	X	X	X		X	X						X
SO	on-site (EU01)	SS-38	SS-38443-112018-JC-038	11/20/2018	0-2 ft BGS		1484321.34	632916.06	2	X	X	X		X	X						X
SO	on-site (EU01)	SS-39	S-38443-110117-BW-013	11/1/2017	0-2 ft BGS		1484421.43	632945.45	2	X	X	X		X	X						X
SO	on-site (EU01)	SS-39	S-38443-110117-BW-014	11/1/2017	0-2 ft BGS	Duplicate	1484421.43	632945.45	2	X	X	X		X	X						X
SO	on-site (EU01)	SS-40	SS-38443-112018-JC-040	11/20/2018	0-2 ft BGS		1484545.86	632975.34	2	X	X	X		X	X						X
SO	on-site (EU01)	SS-41	SS-38443-112018-JC-041	11/20/2018	0-2 ft BGS		1484321.34	632916.06	2							X					
SO	on-site (EU01)	SS-42	SS-38443-112718-AS-042	11/27/2018	0-0.67 ft BGS		1484533.74	632774.81	2	X	X	X	X	X	X						X
SO	on-site (EU01)	SS-43	SS-38443-112718-AS-043	11/27/2018	0.17-1 ft BGS		1484316.81	632672.16	2	X	X	X		X	X						X
SO	on-site (EU01)	SS-44	SS-38443-112718-AS-044	11/27/2018	0.08-1 ft BGS		1484308.34	632784.48	2	X	X	X	X	X	X						X
SO	on-site (EU01)	SS-45	SS-38443-112718-AS-045	11/27/2018	0.17-1.5 ft BGS		1484410.97	632792.02	2	X	X	X		X	X						X
SO	on-site (EU01)	SS-122	SS-38443-112018-JC-122	11/20/2018	0-2 ft BGS		1484545.86	632975.34	2							X					
SO	on-site (EU01)	SS-124	SS-38443-112718-AS-124	11/27/2018	0.17-1.5 ft BGS		1484410.97	632792.02	2							X					
SO	on-site (EU01)	SS-153-AS	SS-38443-112018-JC-153	11/20/2018	0-0.5 ft BGS		1484321.34	632916.06	2										X		
SO	on-site (EU01)	SS-154-AS	SS-38443-112018-JC-154	11/20/2018	0-0.5 ft BGS		1484545.86	632975.34	2										X		
SO	on-site (EU01)	SS-155-AS	SS-38443-112718-JC-155	11/27/2018	0.17-1.5 ft BGS		1484410.97	632792.02	2										X		
SO	on-site (EU01)	TT-14	S-38443-092508-KMV-015	9/25/2008	3 ft BGS		1484433.09	633093.64	1	X	X	X		X	X	X					X
SO	on-site (EU01)	TT-16	S-38443-093008-KMV-033	9/30/2008	2 ft BGS		1484189.13	632814.84	1	X	X	X		X	X	X					X
SO	on-site (EU02)	BH98-18	S-38443-121418-JC-150	12/14/2018	2-5.5 ft BGS		1483615.54	633040.56	2	X	X	X		X	X						X
SO	on-site (EU02)	BH99-18	S-38443-121418-JC-151	12/14/2018	6-9.5 ft BGS		1483549.36	632940.13	2	X	X	X		X	X						X
SO	on-site (EU02)	BH100-18	S-38443-121418-JC-152	12/14/2018	4-7.5 ft BGS		1483465.53	632814.22	2	X	X	X		X	X						X
SO	on-site (EU02)	SS-14	SS-38443-112018-JC-014	11/20/2018	0-2 ft BGS		1483615.54	633040.56	2	X	X	X		X	X						X
SO	on-site (EU02)	SS-15	SS-38443-112018-JC-015	11/20/2018	0-2 ft BGS		1483549.36	632940.13	2	X	X	X	X	X	X						X
SO	on-site (EU02)	SS-16	SS-38443-112018-JC-016	11/20/2018	0-2 ft BGS		1483588.72	632994.55	2	X	X	X		X	X						X
SO	on-site (EU02)	SS-17	SS-38443-112018-JC-017	11/20/2018	0-2 ft BGS		1483465.53	632814.22	2	X	X	X		X	X						X
SO	on-site (EU02)	SS-18	SS-38443-112018-JC-018	11/20/2018	0-2 ft BGS		1483507.21	632879.14	2	X	X	X		X	X						X
SO	on-site (EU02)	SS-148	SS-38443-112018-JC-148	11/20/2018	0-2 ft BGS		1483588.72	632994.55	2							X					
SO	on-site (EU02)	SS-152	SS-38443-112018-JC-152	11/20/2018	0-2 ft BGS		1483507.21	632879.14	2							X					
SO	on-site (EU02)	SS-156-AS	SS-38443-112018-JC-156	11/20/2018	0-0.5 ft BGS		1483588.72	632994.55	2										X		
SO	on-site (EU02)	SS-157-AS	SS-38443-112018-JC-157	11/20/2018	0-0.5 ft BGS		1483507.21	632879.14	2										X		
SO	on-site (EU03)	BH152-18	S-38443-052918-JC-099	5/29/2018	9-11 ft BGS		1484228.82	632384.85	1	X	X	X		X	X				X		X
SO	on-site (EU03)	BH153-18	S-38443-052918-JC-092	5/29/2018	13-15 ft BGS		1484409.54	632219.06	1	X	X	X		X	X				X		X
SO	on-site (EU03)	BH154-18	S-38443-052918-JC-094	5/29/2018	13-15 ft BGS		1484274.19	632231.18	1	X	X	X		X	X				X		X
SO	on-site (EU03)	BH155-18	S-38443-052918-JC-096	5/29/2018	13-15 ft BGS		1484300.96	632122.38	1	X	X	X		X	X						X
SO	on-site (EU03)	BH155-18	S-38443-052918-JC-097	5/29/2018	13-15 ft BGS		1484300.96	632122.38	1										X		
SO	on-site (EU03)	BH155-18	S-38443-052918-JC-097	5/29/2018	13-15 ft BGS	Duplicate	1484300.96	632122.38	1	X	X	X		X	X						X
SO	on-site (EU03)	BH156-18	S-38443-051618-JC-074	5/16/2018	13-15 ft BGS		1484109.48	632200.21	1	X	X	X		X	X				X		X
SO	on-site (EU03)	BH157-18	S-38443-051718-JC-083	5/17/2018	12-14 ft BGS		1484188.87	632039.97	1	X	X	X		X	X				X		X
SO	on-site (EU03)	GP07-18	SO-38443-080118-JC-121	8/1/2018	12-13 ft bgs		1484459.43	632213.10	1	X										X	
SO	on-site (EU03)	SS-146	S-38443-052918-JC-098	5/29/2018	0-2 ft BGS		1484228.82	632384.85	1	X	X	X	X	X	X						X
SO	on-site (EU03)	SS-147	S-38443-052918-JC-091	5/29/2018	0-2 ft BGS		1484409.54	632219.06	1	X	X	X		X	X						X
SO	on-site (EU03)	SS-149	S-38443-052918-JC-095	5/29/2018	0-2 ft BGS		1484300.96	632122.38	1	X	X	X		X	X						X
SO	on-site (EU03)	SS-150	S-38443-052918-JC-093	5/29/2018	0-2 ft BGS		1484274.19	632231.18	1	X	X	X		X	X						X
SO	on-site (EU03)	SS-151	S-38443-051618-JC-073	5/16/2018	0-2 ft BGS		1484109.48	632200.21	1	X	X	X		X	X						X
SO	on-site (EU03)	SS-153	S-38443-051718-JC-075	5/17/2018	0-2 ft BGS		1484188.87	632039.97	1	X	X	X		X	X						X
SO	on-site (EU03)	TT-18	S-38443-100108-KMV-036	10/1/2008	5 ft BGS		1484174.99	632322.20	1	X	X	X		X	X	X					X
SO	on-site (EU03)	TT-18	S-38443-100108-KMV-037	10/1/2008	12 ft BGS		1484174.99	632322.20	1	X	X	X		X	X	X					X
SO	on-site (EU04)	BH146-18	S-38443-051718-JC-082	5/17/2018	13-15 ft BGS		1484631.94	632745.49	1	X	X	X		X	X				X		X
SO	on-site (EU04)	BH147-18	S-38443-051718-JC-077	5/17/2018	12-14 ft BGS		1484811.95	632587.25	1	X	X	X		X	X				X		X
SO	on-site (EU04)	BH148-18	S-38443-051718-JC-079	5/17/2018	6-8 ft BGS		1484630.91	632651.13	1	X	X	X		X	X				X		X
SO	on-site (EU04)	BH149-18	S-38443-052918-JC-088	5/29/2018	10-12 ft BGS		1484419.70	632488.14	1	X	X	X		X	X				X		X
SO	on-site (EU04)	BH150-18	S-38443-052918-JC-086	5/29/2018	13-15 ft BGS		1484494.63	632459.02	1	X	X	X		X	X				X		X
SO	on-site (EU04)	BH151-18	S-38443-052918-JC-090	5/29/2018	10-12 ft BGS		1484509.26	632351.02	1	X	X	X		X	X				X		X
SO	on-site (EU04)	GP08-19	S-38443-011519-JC-154	1/15/2019	11.67-12.67 ft BGS		TBD	TBD	TBD	X										X	X
SO	on-site (EU04)	SS-138	S-38443-051718-JC-080	5/17/2018	0-2 ft BGS		1484631.94	632745.49	1	X	X	X		X	X						X
SO	on-site (EU04)	SS-138	S-38443-051718-JC-081	5/17/2018	0-2 ft BGS	Duplicate	1484631.94	632745.49	1	X	X	X		X	X						X
SO	on-site (EU04)	SS-139	S-38443-051718-JC-076	5/17/2018	0-2 ft BGS		1484811.95	632587.25	1	X	X	X		X	X						X
SO	on-site (EU04)	SS-140	S-38443-051718-JC-078	5/17/2018	0.17-2.17 ft BGS		1484630.91	632651.13	1	X	X	X		X	X						X
SO	on-site (EU04)	SS-142	S-38443-052918-JC-085	5/29/2018	0-2 ft BGS		1484494.63	632459.02	1	X	X	X	X	X	X						X
SO	on-site (EU04)	SS-144	S-38443-052918-JC-087	5/29/2018	0.17-2.17 ft BGS		1484419.70	632488.14	1	X	X	X		X	X						X
SO	on-site (EU04)	SS-145	S-38443-052918-JC-089	5/29/2018	0-2 ft BGS		1484509.26	632351.02	1	X	X	X		X	X						X
SO	on-site (EU04)	TT-17	S-38443-093008-KMV-034	9/30/2008	5 ft BGS		1484528.20	632689.04	1	X	X	X		X	X	X					X

Table 1

Soil Sample List - Operable Unit 1
South Dayton Dump and Landfill Site
Moraine, Ohio

Matrix	EU	Sample Location	Sample ID	Sample Date	Sample Depth	Sample Type	X	Y	Method	Volatiles	Semi-Volatiles	Metals	Metals (Lead Speciation)	PCBs	Pesticides	Herbicides	Petroleum Products	Dioxin/ Furans	Asbestos	Geotechnical	General Chemistry
SO	on-site (EU04)	TT-17	S-38443-093008-KMV-035	9/30/2008	14 ft BGS		1484528.20	632689.04	1	X	X	X		X	X	X					X
SO	on-site (EU05)	BH133-18	S-38443-053118-JC-117	5/31/2018	7-9 ft BGS		1484970.50	632720.34	1	X	X	X		X	X				X		X
SO	on-site (EU05)	SS-101	SS-38443-110218-JC-101	11/2/2018	0.25-2.25 ft BGS		1484923.42	632704.58	2	X	X	X		X	X						X
SO	on-site (EU05)	SS-123	S-38443-053118-JC-116	5/31/2018	0.3-2.3 ft BGS		1484970.50	632720.34	1	X	X	X	X	X	X						X
SO	on-site (EU05)	SS-158-AS	SS-38443-110218-JC-158	11/2/2018	0.25-0.75 ft BGS		1484923.42	632704.58	2										X		
SO	on-site (EU06)	BH130-18	S-38443-053018-JC-112	5/30/2018	9.5-11.5 ft BGS		1484824.33	632761.78	1	X	X	X		X	X				X		X
SO	on-site (EU06)	BH132-18	S-38443-053118-JC-119	5/31/2018	6.5-8.5 ft BGS		1484814.24	632684.84	1	X	X	X		X	X				X		X
SO	on-site (EU06)	SS-116	S-38443-053018-JC-111	5/30/2018	0-2 ft BGS		1484824.33	632761.78	1	X	X	X		X	X						X
SO	on-site (EU06)	SS-120	S-38443-053118-JC-118	5/31/2018	0-2 ft BGS		1484814.24	632684.84	1	X	X	X		X	X						X
SO	on-site (EU07)	BH125-18	S-38443-053018-JC-106	5/30/2018	7-9 ft BGS		1484844.18	632906.75	1	X	X	X		X	X				X		X
SO	on-site (EU07)	BH126-18	S-38443-053018-JC-101	5/30/2018	10-12 ft BGS		1484613.86	632868.02	1	X	X	X		X	X				X		X
SO	on-site (EU07)	BH127-18	S-38443-053018-JC-110	5/30/2018	7-9 ft BGS		1484774.08	632802.99	1	X	X	X		X	X				X		X
SO	on-site (EU07)	BH128-18	S-38443-053018-JC-108	5/30/2018	13-15 ft BGS		1484706.26	632785.01	1	X	X	X		X	X				X		X
SO	on-site (EU07)	BH129-18	S-38443-053018-JC-103	5/30/2018	13-15 ft BGS		1484743.64	632939.85	1	X	X	X		X	X				X		X
SO	on-site (EU07)	SS-102	S-38443-053018-JC-104	5/30/2018	0-2 ft BGS		1484844.18	632906.75	1	X	X	X		X	X						X
SO	on-site (EU07)	SS-102	S-38443-053018-JC-105	5/30/2018	0-2 ft BGS	Duplicate	1484844.18	632906.75	1	X	X	X		X	X						X
SO	on-site (EU07)	SS-103	S-38443-053018-JC-102	5/30/2018	0-2 ft BGS		1484743.64	632939.85	1	X	X	X	X	X	X						X
SO	on-site (EU07)	SS-104	S-38443-053018-JC-100	5/30/2018	0-2 ft BGS		1484613.86	632868.02	1	X	X	X		X	X						X
SO	on-site (EU07)	SS-109	S-38443-053018-JC-109	5/30/2018	0-2 ft BGS		1484774.08	632802.99	1	X	X	X		X	X						X
SO	on-site (EU07)	SS-112	S-38443-053018-JC-107	5/30/2018	0-2 ft BGS		1484706.26	632785.01	1	X	X	X		X	X						X
SO	on-site (EU08)	BH122-18	S-38443-053118-JC-115	5/31/2018	6-8 ft BGS		1484920.41	632860.24	1	X	X	X		X	X				X		X
SO	on-site (EU08)	SS-98	S-38443-053118-JC-114	5/31/2018	0.17-2.17 ft BGS		1484920.41	632860.24	1	X	X	X		X	X						X
SO	on-site (EU08)	SS-99	SS-38443-110218-JC-099	11/2/2018	0.25-2.25 ft BGS		1484909.78	632942.11	2	X	X	X		X	X						X
SO	on-site (EU08)	SS-100	SS-38443-110218-JC-100	11/2/2018	0.17-2.17 ft BGS		1484965.78	632822.60	2	X	X	X	X	X	X						X
SO	on-site (EU08)	SS-100	SS-38443-110218-JC-121	11/2/2018	0.17-2.17 ft BGS	Duplicate	1484965.78	632822.60	2	X	X	X		X	X						X
SO	on-site (EU08)	SS-159-AS	SS-38443-110218-JC-159	11/2/2018	0.25-0.75 ft BGS		1484909.78	632942.11	2										X		
SO	on-site (EU08)	SS-160-AS	SS-38443-110218-JC-160	11/2/2018	0.17-0.67 ft BGS		1484965.78	632822.60	2										X		
SO	on-site (EU09)	BH120-18	S-38443-011918-JC-055	1/19/2018	8-10 ft BGS		1485128.93	632963.36	1	X	X	X		X	X				X		X
SO	on-site (EU09)	BH121-18	S-38443-011918-JC-054	1/19/2018	8-10 ft BGS		1485371.13	632937.01	1	X	X	X		X	X				X		X
SO	on-site (EU09)	SS-86	S-38443-110217-BW-015	11/2/2017	0-2 ft BGS		1484699.17	633002.27	2	X	X	X		X	X						X
SO	on-site (EU09)	SS-87	SS-38443-103118-JC-087	10/31/2018	0.5-2.5 ft BGS		1484843.85	632991.51	2	X	X	X		X	X						X
SO	on-site (EU09)	SS-87	SS-38443-103118-JC-119	10/31/2018	0.5-2.5 ft BGS	Duplicate	1484843.85	632991.51	2	X	X	X		X	X						X
SO	on-site (EU09)	SS-88	SS-38443-103118-JC-088	10/31/2018	0.5-2.5 ft BGS		1484972.58	632983.06	2							X					
SO	on-site (EU09)	SS-90	SS-38443-103118-JC-090	10/31/2018	0.17-2.17 ft BGS		1485128.93	632963.36	1	X	X	X		X	X						X
SO	on-site (EU09)	SS-91	SS-38443-103118-JC-091	10/31/2018	0.5-2.5 ft BGS		1484972.58	632983.06	2	X	X	X		X	X						X
SO	on-site (EU09)	SS-92	SS-38443-103118-JC-092	10/31/2018	0-2 ft BGS		1485262.62	632951.90	2	X	X	X		X	X						X
SO	on-site (EU09)	SS-93	SS-38443-103118-JC-093	10/31/2018	0-2 ft BGS		1485371.13	632937.01	1	X	X	X		X	X						X
SO	on-site (EU09)	SS-161-AS	SS-38443-103118-JC-161	10/31/2018	0.5-1 ft BGS		1484843.85	632991.51	2										X		
SO	on-site (EU09)	SS-162-AS	SS-38443-103118-JC-162	10/31/2018	0.17-0.67 ft BGS		1485128.93	632963.36	2										X		
SO	on-site (EU09)	TP-17	S-38443-110217-BW-016	11/2/2017	8-10 ft BGS		1484705.92	633002.27	1	X	X	X		X	X			X			X
SO	on-site (EU09)	TT-13	S-38443-092508-KMV-017	9/25/2008	7 ft BGS		1484843.85	632991.51	1	X	X	X		X	X	X					X
SO	on-site (EU09)	VAS-21B	S-38443-060209-DR-001	6/2/2009	3-5 ft BGS		1485390.92	632965.07	1	X	X	X		X							X
SO	on-site (EU10)	BH97-17	S-38443-120817-JC-005	12/8/2017	13-15 ft BGS		1485191.03	633100.38	1	X	X	X		X	X			X	X		X
SO	on-site (EU10)	BH97-17	S-38443-120817-JC-006	12/8/2017	13-15 ft BGS	Duplicate	1485191.03	633100.38	1	X	X	X		X	X			X			X
SO	on-site (EU10)	BH117-18	S-38443-011818-JC-050	1/18/2018	10-12 ft BGS		1485385.10	633071.36	1	X	X	X		X	X				X		X
SO	on-site (EU10)	BH118-18	S-38443-011818-JC-051	1/18/2018	3-5 ft BGS		1485311.69	633007.21	1	X	X	X		X	X				X		X
SO	on-site (EU10)	BH118-18	S-38443-011818-JC-052	1/18/2018	3-5 ft BGS	Duplicate	1485311.69	633007.21	1	X	X	X		X	X						X
SO	on-site (EU10)	BH119-18	S-38443-011818-JC-053	1/18/2018	9-11 ft BGS		1485397.74	633000.46	1	X	X	X		X	X				X		X
SO	on-site (EU10)	SS-32	SS-38443-103118-JC-032	10/31/2018	0.25-2.25 ft BGS		1485191.03	633100.38	2	X	X	X		X	X						X
SO	on-site (EU10)	SS-78	SS-38443-103118-JC-078	10/31/2018	0-2 ft BGS		1485300.28	633090.54	2	X	X	X		X	X						X
SO	on-site (EU10)	SS-79	SS-38443-103118-JC-079	10/31/2018	0-2 ft BGS		1485385.10	633071.36	1	X	X	X	X	X	X						X
SO	on-site (EU10)	SS-80	SS-38443-103118-JC-080	10/31/2018	0-2 ft BGS		1485440.49	633060.13	2	X	X	X		X	X						X
SO	on-site (EU10)	SS-81	SS-38443-103118-JC-081	10/31/2018	0.33-2.33 ft BGS		1485143.76	633150.57	2	X	X	X	X	X	X						X
SO	on-site (EU10)	SS-82	SS-38443-103118-JC-082	10/31/2018	0-2 ft BGS		1485311.76	632995.48	2	X	X	X		X	X						X
SO	on-site (EU10)	SS-83	SS-38443-103118-JC-083	10/31/2018	0-2 ft BGS		1485397.74	633000.46	1	X	X	X		X	X						X
SO	on-site (EU10)	SS-84	SS-38443-103118-JC-084	10/31/2018	0-2 ft BGS		1485214.32	633022.85	2	X	X	X		X	X						X
SO	on-site (EU10)	SS-85	SS-38443-103118-JC-085	10/31/2018	0.25-2.25 ft BGS		1485191.03	633100.38	2							X					
SO	on-site (EU10)	SS-163-AS	SS-38443-103118-JC-163	10/31/2018	0.33-0.83 ft BGS		1485143.76	633150.57	2										X		
SO	on-site (EU10)	SS-164-AS	SS-38443-103118-JC-164	10/31/2018	0.25-0.75 ft BGS		1485191.03	633100.38	2										X		
SO	on-site (EU11)	BH89-13	S-38443-062413-SM-029	6/24/2013	18-20 ft BGS		1485217.17	633399.30	3	X											
SO	on-site (EU11)	BH114-18	S-38443-011118-JC-040	1/11/2018	3-5 ft BGS		1485459.54	633418.82	1	X	X	X		X	X				X		X
SO	on-site (EU11)	BH114-18	S-38443-011118-JC-041	1/11/2018	3-5 ft BGS	Duplicate	1485459.54	633418.82	1	X	X	X		X	X						X
SO	on-site (EU11)	BH115-18	S-38443-011118-JC-039	1/11/2018	3-5 ft BGS		1485436.74	633255.52	1	X	X	X		X	X				X		X
SO	on-site (EU11)	BH116-18	S-38443-011118-JC-038	1/11/2018	11-13 ft BGS		1485437.11	633125.52	1	X	X	X		X	X				X		X
SO	on-site (EU11)	BH175-17	S-38443-121817-JC-008	12/18/2017	13-15 ft BGS		1485171.92	633366.07	1			X									
SO	on-site (EU11)	BH175-17	S-38443-121817-JC-009	12/18/2017	15.5-17.5 ft BGS		1485171.92	633366.07	1	X	X	X		X	X				X		X
SO	on-site (EU11)	SS-25	S-38443-110117-BW-011	11/1/2017	0-2 ft BGS		1485203.03	633398.52	2	X	X	X		X	X						X

Table 1

Soil Sample List - Operable Unit 1
South Dayton Dump and Landfill Site
Moraine, Ohio

Matrix	EU	Sample Location	Sample ID	Sample Date	Sample Depth	Sample Type	X	Y	Method	Volatiles	Semi-Volatiles	Metals	Metals (Lead Speciation)	PCBs	Pesticides	Herbicides	Petroleum Products	Dioxin/ Furans	Asbestos	Geotechnical	General Chemistry
SO	on-site (EU11)	SS-70	SS-38443-103018-JC-070	10/30/2018	0-2 ft BGS		1485356.03	633440.47	2	X	X	X	X	X	X						X
SO	on-site (EU11)	SS-71	SS-38443-103018-JC-071	10/30/2018	0-2 ft BGS		1485459.54	633418.82	1	X	X	X		X	X						X
SO	on-site (EU11)	SS-72	SS-38443-103018-JC-072	10/30/2018	0.5-2.25 ft BGS		1485230.23	633188.75	2	X	X	X	X	X	X						X
SO	on-site (EU11)	SS-73	SS-38443-103018-JC-073	10/30/2018	0.17-2.17 ft BGS		1485436.74	633255.52	1	X	X	X		X	X						X
SO	on-site (EU11)	SS-74	SS-38443-103018-JC-074	10/30/2018	0-2 ft BGS		1485328.99	633220.53	2	X	X	X		X	X						X
SO	on-site (EU11)	SS-75	SS-38443-103018-JC-075	10/30/2018	0.5-2.5 ft BGS		1485147.47	633279.72	2	X	X	X		X	X						X
SO	on-site (EU11)	SS-76	SS-38443-103018-JC-076	10/30/2018	0-2 ft BGS		1485437.11	633125.52	1	X	X	X		X	X						X
SO	on-site (EU11)	SS-77	SS-38443-103018-JC-077	10/30/2018	0.5-2.5 ft BGS		1485147.47	633279.72	2							X					
SO	on-site (EU11)	SS-165-AS	SS-38443-103018-JC-165	10/30/2018	0.5-1 ft BGS		1485230.23	633188.75											X		
SO	on-site (EU11)	SS-166-AS	SS-38443-103018-JC-166	10/30/2018	0.5-1 ft BGS		1485147.47	633279.72	2										X		
SO	on-site (EU11)	TP-13	S-38443-110117-BW-012	11/1/2017	8-10 ft BGS		1485209.31	633398.22	1	X	X	X		X	X			X			X
SO	on-site (EU11)	TT-11	S-38443-100208-KMV-041	10/2/2008	5 ft BGS		1485264.96	633363.20	1	X	X	X		X	X	X					X
SO	on-site (EU11)	TT-11	S-38443-100208-KMV-042	10/2/2008	10 ft BGS		1485264.96	633363.20	1	X	X	X		X	X	X					X
SO	on-site (EU11)	TT-11	S-38443-100208-KMV-043	10/2/2008	21 ft BGS		1485264.96	633363.20	1	X	X	X		X	X	X					X
SO	on-site (EU11)	TT-12	S-38443-100208-KMV-038	10/2/2008	5 ft BGS		1485230.23	633188.75	1	X	X	X		X	X	X					X
SO	on-site (EU11)	TT-12	S-38443-100208-KMV-039	10/2/2008	10 ft BGS		1485230.23	633188.75	1	X	X	X		X	X	X					X
SO	on-site (EU11)	TT-12	S-38443-100208-KMV-040	10/2/2008	21 ft BGS		1485230.23	633188.75	1	X	X	X		X	X	X					X
SO	on-site (EU12)	BH83-13	S-38443-062413-SM-030	6/24/2013	5-7.5 ft BGS		1485187.07	633606.00	3	X											
SO	on-site (EU12)	BH83-13	S-38443-062413-SM-041	6/24/2013	20.2-22.2 ft BGS		1485187.07	633606.00	3	X											
SO	on-site (EU12)	BH84-13	S-38443-062613-JT-048	6/26/2013	2-4 ft BGS		1485247.80	633589.36	3	X											
SO	on-site (EU12)	BH84-13	S-38443-062613-JT-049	6/26/2013	19-21 ft BGS		1485247.80	633589.36	3	X											
SO	on-site (EU12)	BH111-18	S-38443-011118-JC-042	1/11/2018	7.5-9.5 ft BGS		1485342.50	633565.63	1	X	X	X		X	X				X		X
SO	on-site (EU12)	BH112-17	S-38443-121917-JC-014	12/19/2017	13-15 ft BGS		1485133.05	633553.40	1	X	X	X		X	X			X	X		X
SO	on-site (EU12)	BH113-18	S-38443-010318-JC-026	1/3/2018	9-11 ft BGS		1485287.05	633497.40	1	X	X	X		X	X				X		X
SO	on-site (EU12)	SS-62	SS-38443-103018-JC-062	10/30/2018	0.17-2.17 ft BGS		1485247.80	633589.36	2	X	X	X		X	X						X
SO	on-site (EU12)	SS-63	SS-38443-103018-JC-063	10/30/2018	0.17-2.17 ft BGS		1485390.81	633479.55	2	X	X	X		X	X						X
SO	on-site (EU12)	SS-64	SS-38443-103018-JC-064	10/30/2018	0-2 ft BGS		1485133.05	633553.40	1	X	X	X		X	X						X
SO	on-site (EU12)	SS-65	SS-38443-103018-JC-065	10/30/2018	0.25-2.25 ft BGS		1485287.05	633497.40	1	X	X	X		X	X						X
SO	on-site (EU12)	SS-65	SS-38443-103018-JC-118	10/30/2018	0.25-2.25 ft BGS	Duplicate	1485287.05	633497.40	1	X	X	X		X	X						X
SO	on-site (EU12)	SS-66	SS-38443-103018-JC-066	10/30/2018	0.17-2.17 ft BGS		1485376.06	633557.11	2	X	X	X	X	X	X						X
SO	on-site (EU12)	SS-67	SS-38443-103018-JC-067	10/30/2018	0.17-2.17 ft BGS		1485538.30	633517.71	2	X	X	X		X	X						X
SO	on-site (EU12)	SS-68	SS-38443-103018-JC-068	10/30/2018	0.17-2.17 ft BGS		1485523.89	633451.97	2	X	X	X		X	X						X
SO	on-site (EU12)	SS-69	SS-38443-103018-JC-069	10/30/2018	0.33-2.33 ft BGS		1485155.48	633607.13	2	X	X	X		X	X						X
SO	on-site (EU12)	SS-89	SS-38443-103018-JC-089	10/30/2018	0-2 ft BGS		1485133.05	633553.40	2							X					
SO	on-site (EU12)	SS-167-AS	SS-38443-103018-JC-167	10/30/2018	0-0.5 ft BGS		1485133.05	633553.40	2										X		
SO	on-site (EU12)	TT-10	S-38443-100308-KMV-044	10/3/2008	5 ft BGS		1485224.38	633508.99	1	X	X	X		X	X	X					X
SO	on-site (EU12)	TT-10	S-38443-100308-KMV-045	10/3/2008	10 ft BGS		1485224.38	633508.99	1	X	X	X		X	X	X					X
SO	on-site (EU12)	TT-10	S-38443-100308-KMV-046	10/3/2008	15 ft BGS		1485224.38	633508.99	1	X	X	X		X	X	X					X
SO	on-site (EU13)	BH66-13	S-38443-062613-JC-054	6/26/2013	10-12 ft BGS		1485201.57	633744.35	3	X				X							
SO	on-site (EU13)	BH66-13	S-38443-062613-JC-055	6/26/2013	22-24 ft BGS		1485201.57	633744.35	3	X				X							
SO	on-site (EU13)	BH67-13	S-38443-062013-JC-032	6/20/2013	7-9 ft BGS		1485259.32	633708.82	3	X				X							
SO	on-site (EU13)	BH67-13	S-38443-062013-JC-033	6/20/2013	21-23 ft BGS		1485259.32	633708.82	3	X				X							
SO	on-site (EU13)	BH71-13	S-38443-062013-JT-025	6/20/2013	21.5-23.5 ft BGS		1485376.67	633691.43	3	X											
SO	on-site (EU13)	BH72-13	S-38443-062013-JT-026	6/20/2013	18.75-20.75 ft BGS		1485456.56	633679.92	3	X											
SO	on-site (EU13)	BH73-13	S-38443-062013-JT-024	6/20/2013	18.5-20.5 ft BGS		1485373.64	633597.35	3	X				X							
SO	on-site (EU13)	BH74-13	S-38443-062013-JT-022	6/20/2013	0-2 ft BGS		1485459.66	633567.37	3	X											
SO	on-site (EU13)	BH74-13	S-38443-062013-JT-023	6/20/2013	19-21 ft BGS		1485459.66	633567.37	3	X											
SO	on-site (EU13)	BH78-13	S-38443-062513-JT-043	6/25/2013	20-22 ft BGS		1485215.09	633703.54	3	X											
SO	on-site (EU13)	BH78-13	S-38443-062513-JT-044	6/25/2013	20-22 ft BGS	Duplicate	1485215.09	633703.54	3	X											
SO	on-site (EU13)	BH80-13	S-38443-062413-SM-042	6/24/2013	22.5-24.5 ft BGS		1485212.71	633633.55	3	X											
SO	on-site (EU13)	BH81-13	S-38443-062613-JC-070	6/26/2013	15-17 ft BGS		1485231.91	633656.37	3	X											
SO	on-site (EU13)	BH81-13	S-38443-062613-JC-071	6/26/2013	22-24 ft BGS		1485231.91	633656.37	3	X											
SO	on-site (EU13)	BH107-18	S-38443-011618-JC-046	1/16/2018	12-14 ft BGS		1485326.77	633708.02	1	X	X	X		X	X				X		X
SO	on-site (EU13)	BH108-18	S-38443-011218-JC-043	1/12/2018	7-9 ft BGS		1485436.51	633681.84	1	X	X	X		X	X				X		X
SO	on-site (EU13)	BH109-18	S-38443-011618-JC-044	1/16/2018	7.5-9.5 ft BGS		1485307.58	633595.10	1	X	X	X		X	X				X		X
SO	on-site (EU13)	BH110-18	S-38443-011618-JC-045	1/16/2018	6.3-8.3 ft BGS		1485416.55	633576.04	1	X	X	X		X	X				X		X
SO	on-site (EU13)	BH159-17	S-38443-121817-JC-010	12/18/2017	13-15 ft BGS		1485178.32	633637.70	1			X							X		
SO	on-site (EU13)	BH159-17	S-38443-121817-JC-011	12/18/2017	19-21 ft BGS		1485178.32	633637.70	1	X	X	X		X	X				X		X
SO	on-site (EU13)	SS-54	SS-38443-103018-JC-054	10/30/2018	0.25-2.25 ft BGS		1485546.43	633555.66	2	X	X	X		X	X						X
SO	on-site (EU13)	SS-54	SS-38443-103018-JC-117	10/30/2018	0.25-2.25 ft BGS	Duplicate	1485546.43	633555.66	2	X	X	X		X	X						X
SO	on-site (EU13)	SS-55	SS-38443-102918-JC-055	10/29/2018	0-2 ft BGS		1485326.77	633708.02	1	X	X	X		X	X						X
SO	on-site (EU13)	SS-55	SS-38443-102918-JC-115	10/29/2018	0-2 ft BGS	Duplicate	1485326.77	633708.02	1	X	X	X		X	X						X
SO	on-site (EU13)	SS-56	SS-38443-103018-JC-056	10/30/2018	0-2 ft BGS		1485436.51	633681.84	1	X	X	X		X	X						X
SO	on-site (EU13)	SS-57	SS-38443-103018-JC-057	10/30/2018	0.25-2.25 ft BGS		1485570.19	633654.85	2	X	X	X		X	X						X
SO	on-site (EU13)	SS-58	S-38443-110317-BW-021	11/3/2017	0-2 ft BGS		1485180.97	633661.62	1	X	X	X		X	X						X
SO	on-site (EU13)	SS-59	SS-38443-103018-JC-059	10/30/2018	0-2 ft BGS		1485201.57	633744.35	2	X	X	X	X	X	X						X
SO	on-site (EU13)	SS-60	SS-38443-103018-JC-060	10/30/2018	0.17-2.17 ft BGS		1485307.58	633595.10	1	X	X	X		X	X						X

Table 1

Soil Sample List - Operable Unit 1
South Dayton Dump and Landfill Site
Moraine, Ohio

Matrix	EU	Sample Location	Sample ID	Sample Date	Sample Depth	Sample Type	X	Y	Method	Volatiles	Semi-Volatiles	Metals	Metals (Lead Speciation)	PCBs	Pesticides	Herbicides	Petroleum Products	Dioxin/ Furans	Asbestos	Geotechnical	General Chemistry
SO	on-site (EU13)	SS-61	SS-38443-103018-JC-061	10/30/2018	0-2 ft BGS		1485412.77	633633.33	2	X	X	X	X	X	X						X
SO	on-site (EU13)	SS-94	SS-38443-103018-JC-094	10/30/2018	0-2 ft BGS		1485201.57	633744.35	2							X					
SO	on-site (EU13)	SS-168-AS	SS-38443-103018-JC-168	10/30/2018	0-0.5 ft BGS		1485201.57	633744.35	2										X		
SO	on-site (EU13)	TT-40	TT-40	11/3/2017	2-4 ft BGS		1485180.97	633661.62	1										X		
SO	on-site (EU13)	TT-40	S-38443-110317-BW-022	11/3/2017	6-8 ft BGS		1485180.97	633661.62	1	X	X	X		X	X			X			X
SO	on-site (EU14)	BH62-13	S-38443-061913-JT-008	6/19/2013	21.5-23.5 ft BGS		1485282.44	633902.09	3	X				X							
SO	on-site (EU14)	BH63-13	S-38443-062013-JC-020	6/20/2013	23-25 ft BGS		1485381.73	633873.13	3	X											
SO	on-site (EU14)	BH64-13	S-38443-061913-JC-016	6/19/2013	22-24 ft BGS		1485478.69	633868.22	3	X											
SO	on-site (EU14)	BH65-13	S-38443-062013-JC-031	6/20/2013	22.1-24.1 ft BGS		1485286.13	633821.03	3	X				X							
SO	on-site (EU14)	BH68-13	S-38443-061913-JC-017	6/19/2013	0.5-2.5 ft BGS		1485358.84	633774.58	3	X											
SO	on-site (EU14)	BH68-13	S-38443-061913-JC-018	6/19/2013	21.5-23.5 ft BGS		1485358.84	633774.58	3	X											
SO	on-site (EU14)	BH69-13	S-38443-062113-JC-035	6/21/2013	21-23 ft BGS		1485453.71	633742.61	3	X				X							
SO	on-site (EU14)	BH69-13	S-38443-062113-JC-036	6/21/2013	21-23 ft BGS	Duplicate	1485453.71	633742.61	3	X				X							
SO	on-site (EU14)	BH70-13	S-38443-062113-JC-034	6/21/2013	19-20 ft BGS		1485571.86	633720.76	3	X											
SO	on-site (EU14)	BH105-18	S-38443-011718-JC-047	1/17/2018	8.5-10.5 ft BGS		1485275.04	633840.29	1	X	X	X		X	X			X	X		X
SO	on-site (EU14)	BH106-18	S-38443-011718-JC-048	1/17/2018	13-15 ft BGS		1485409.03	633822.72	1	X	X	X		X	X				X		X
SO	on-site (EU14)	GP30-18	S-38443-011718-JC-049	1/17/2018	10.5-11.5 ft bgs		1485470.09	633860.32	1	X										X	X
SO	on-site (EU14)	GP31-18	S-38443-011918-JC-056	1/19/2018	8-9 ft bgs		1485579.57	633710.39	1	X										X	X
SO	on-site (EU14)	SS-46	SS-38443-103018-JC-046	10/30/2018	0-2 ft BGS		1485275.04	633840.29	1	X	X	X		X	X						X
SO	on-site (EU14)	SS-47	SS-38443-110218-JC-047	11/2/2018	0-2 ft BGS		1485265.43	633761.83	2	X	X	X		X	X						X
SO	on-site (EU14)	SS-48	SS-38443-102918-JC-048	10/29/2018	0.25-2.25 ft BGS		1485579.26	633698.99	2	X	X	X	X	X	X						X
SO	on-site (EU14)	SS-49	SS-38443-102918-JC-049	10/29/2018	0-2 ft BGS		1485426.50	633837.33	2	X	X	X		X	X						X
SO	on-site (EU14)	SS-50	SS-38443-102918-JC-050	10/29/2018	0.17-2.17 ft BGS		1485282.44	633902.09	2	X	X	X	X	X	X						X
SO	on-site (EU14)	SS-51	SS-38443-102918-JC-051	10/29/2018	0.25-2.25 ft BGS		1485594.72	633843.55	2	X	X	X		X	X						X
SO	on-site (EU14)	SS-52	SS-38443-102918-JC-052	10/29/2018	0-2 ft BGS		1485426.50	633837.33	2							X					
SO	on-site (EU14)	SS-53	SS-38443-102918-JC-053	10/29/2018	0-2 ft BGS		1485438.99	633740.32	2	X	X	X		X	X						X
SO	on-site (EU14)	SS-169-AS	SS-38443-103018-JC-169	10/30/2018	0-0.5 ft BGS		1485275.04	633840.29	2										X		
SO	on-site (EU14)	SS-170-AS	SS-38443-102918-JC-170	10/29/2018	0-0.5 ft BGS		1485426.50	633837.33	2										X		
SO	on-site (EU14)	TT-8	S-38443-100608-KMV-050	10/6/2008	4 ft BGS		1485290.10	633839.08	1	X	X	X		X	X	X					X
SO	on-site (EU14)	TT-8	S-38443-100608-KMV-050-D	10/6/2008	4 ft BGS	Duplicate	1485290.10	633839.08	1	X	X	X		X	X	X					X
SO	on-site (EU14)	TT-8	S-38443-100608-KMV-051	10/6/2008	15 ft BGS		1485290.10	633839.08	1	X	X	X		X	X	X					X
SO	on-site (EU14)	TT-9	S-38443-100308-KMV-047	10/3/2008	7 ft BGS		1485234.03	633760.88	1	X	X	X		X	X	X					X
SO	on-site (EU14)	TT-9	S-38443-100308-KMV-048	10/3/2008	17 ft BGS		1485234.03	633760.88	1	X	X	X		X	X	X					X
SO	on-site (EU14)	TT-9	S-38443-100308-KMV-049	10/3/2008	22 ft BGS		1485234.03	633760.88	1	X	X	X		X	X	X					X
SO	on-site (EU15)	BH51-13	S-38443-062113-JT-027	6/21/2013	0-2 ft BGS		1485624.46	634216.00	3	X											
SO	on-site (EU15)	BH51-13	S-38443-062113-JT-028	6/21/2013	19.3-21.3 ft BGS		1485624.46	634216.00	3	X											
SO	on-site (EU15)	BH52-13	S-38443-061913-JC-014	6/19/2013	21.8-23.8 ft BGS		1485507.44	634149.33	3	X											
SO	on-site (EU15)	BH52-13	S-38443-061913-JC-015	6/19/2013	21.8-23.8 ft BGS	Duplicate	1485507.44	634149.33	3	X											
SO	on-site (EU15)	BH53-13	S-38443-061813-JT-001	6/18/2013	0-2 ft BGS		1485602.76	634129.48	3	X											
SO	on-site (EU15)	BH53-13	S-38443-061813-JT-002	6/18/2013	19-21 ft BGS		1485602.76	634129.48	3	X											
SO	on-site (EU15)	BH54-13	S-38443-061813-JT-003	6/18/2013	4-6 ft BGS		1485676.80	634096.82	3	X											
SO	on-site (EU15)	BH54-13	S-38443-061813-JT-004	6/18/2013	18.5-20.5 ft BGS		1485676.80	634096.82	3	X											
SO	on-site (EU15)	BH55-13	S-38443-061813-JC-011	6/18/2013	2-4 ft BGS		1485492.22	634050.20	3	X											
SO	on-site (EU15)	BH55-13	S-38443-061813-JC-012	6/18/2013	22.5-24.5 ft BGS		1485492.22	634050.20	3	X											
SO	on-site (EU15)	BH56-13	S-38443-061813-JC-013	6/18/2013	21-23 ft BGS		1485586.64	634031.64	3	X											
SO	on-site (EU15)	BH57-13	S-38443-061813-JT-005	6/18/2013	21-23 ft BGS		1485396.83	634075.62	3	X				X							
SO	on-site (EU15)	BH58-13	S-38443-061913-JT-009	6/19/2013	21.5-23.5 ft BGS		1485293.09	633981.55	3	X											
SO	on-site (EU15)	BH58-13	S-38443-061913-JT-010	6/19/2013	21.5-23.5 ft BGS	Duplicate	1485293.09	633981.55	3	X											
SO	on-site (EU15)	BH59-13	S-38443-061913-JT-006	6/19/2013	2-4 ft BGS		1485378.70	633950.79	3	X											
SO	on-site (EU15)	BH59-13	S-38443-061913-JT-007	6/19/2013	20.5-22.5 ft BGS		1485378.70	633950.79	3	X											
SO	on-site (EU15)	BH60-13	S-38443-061913-JT-021	6/19/2013	20-22 ft BGS		1485475.65	633933.31	3	X											
SO	on-site (EU15)	BH61-13	S-38443-061913-JC-019	6/19/2013	21.2-23.2 ft BGS		1485559.20	633915.62	3	X				X							
SO	on-site (EU15)	BH143-18	S-38443-012318-JC-061	1/23/2018	10-12 ft BGS		1485775.00	634621.71	1	X	X	X		X	X			X	X		X
SO	on-site (EU15)	BH143-18	S-38443-012318-JC-062	1/23/2018	10-12 ft BGS	Duplicate	1485775.00	634621.71	1	X	X	X		X	X			X			X
SO	on-site (EU15)	BH144-18	S-38443-012218-JC-057	1/22/2018	14.5-16.5 ft BGS		1485323.92	634326.32	1	X	X	X		X	X			X			X
SO	on-site (EU15)	BH144-18	S-38443-012218-JC-057	1/22/2018	15.5-16.5 ft BGS		1485323.92	634326.32	1										X		
SO	on-site (EU15)	BH145-18	S-38443-012218-JC-059	1/22/2018	9-11 ft BGS		1485396.96	634024.85	1	X	X	X		X	X			X	X		X
SO	on-site (EU15)	GP19-18	S-38443-012418-JC-063	1/24/2018	11-12 ft bgs		1485725.98	634632.68	1	X										X	X
SO	on-site (EU15)	GP20-18	S-38443-012218-JC-060	1/22/2018	11-12 ft bgs		1485634.38	634103.24	1	X										X	X
SO	on-site (EU15)	GP33-18	S-38443-012218-JC-058	1/22/2018	17.5-18.5 ft bgs		1485345.08	634328.34	1	X										X	X
SO	on-site (EU15)	MW-219	S-38443-120409-DR-001	12/4/2009	24-26 ft BGS		1485662.99	634632.62	1	X	X	X		X	X	X	X				X
SO	on-site (EU15)	SS-125	SS-38443-102918-JC-125	10/29/2018	0-2 ft BGS		1485274.99	634083.98	2							X					
SO	on-site (EU15)	SS-130	SS-38443-102918-JC-130	10/29/2018	0.25-2.25 ft BGS		1485777.06	634578.39	2	X	X	X		X	X						X
SO	on-site (EU15)	SS-130	SS-38443-102918-JC-114	10/29/2018	0.25-2.25 ft BGS	Duplicate	1485777.06	634578.39	2	X	X	X		X	X						X
SO	on-site (EU15)	SS-131	SS-38443-102918-JC-131	10/29/2018	0-2 ft BGS		1485726.24	634496.98	2	X	X	X	X	X	X						X
SO	on-site (EU15)	SS-132	S-38443-110817-BW-031	11/8/2017	0.7-2.7 ft BGS		1485669.15	634297.70	2	X	X	X		X	X						X
SO	on-site (EU15)	SS-132	S-38443-110817-BW-032	11/8/2017	0.7-2.7 ft BGS	Duplicate	1485669.15	634297.70	2	X	X	X		X	X						X

Table 1

Soil Sample List - Operable Unit 1
South Dayton Dump and Landfill Site
Moraine, Ohio

Matrix	EU	Sample Location	Sample ID	Sample Date	Sample Depth	Sample Type	X	Y	Method	Volatiles	Semi-Volatiles	Metals	Metals (Lead Speciation)	PCBs	Pesticides	Herbicides	Petroleum Products	Dioxin/ Furans	Asbestos	Geotechnical	General Chemistry
SO	on-site (EU15)	SS-133	SS-38443-102918-JC-133	10/29/2018	0.5-2.5 ft BGS		1485323.92	634326.32	1	X	X	X		X	X						X
SO	on-site (EU15)	SS-134	SS-38443-102918-JC-134	10/29/2018	0.92-2.92 ft BGS		1485293.10	633972.75	2	X	X	X		X	X						X
SO	on-site (EU15)	SS-135	SS-38443-102918-JC-135	10/29/2018	0.25-2.25 ft BGS		1485618.49	633903.68	2	X	X	X		X	X						X
SO	on-site (EU15)	SS-136	SS-38443-102918-JC-136	10/29/2018	0-2 ft BGS		1485274.99	634083.98	2	X	X	X	X	X	X						X
SO	on-site (EU15)	SS-137	SS-38443-102918-JC-137	10/29/2018	0.17-2.17 ft BGS		1485479.75	634083.40	2	X	X	X		X	X						X
SO	on-site (EU15)	SS-141	SS-38443-102918-JC-141	10/29/2018	0-2 ft BGS		1485494.19	634277.70	2	X	X	X	X	X	X						X
SO	on-site (EU15)	SS-143	SS-38443-102918-JC-143	10/29/2018	0-2 ft BGS		1485388.91	634016.40	2	X	X	X		X	X						X
SO	on-site (EU15)	SS-171-AS	SS-38443-102918-JC-171	10/29/2018	0-0.5 ft BGS		1485274.99	634083.98	2										X		
SO	on-site (EU15)	SS-172-AS	SS-38443-102918-JC-172	10/29/2018	0.17-0.67 ft BGS		1485479.75	634083.40	2										X		
SO	on-site (EU15)	SS-173-AS	SS-38443-102918-JC-173	10/29/2018	0-0.5 ft BGS		1485494.19	634277.70	2										X		
SO	on-site (EU15)	TT-23	S-38443-100608-KMV-052	10/6/2008	7 ft BGS		1485612.08	634148.31	1	X	X	X		X	X	X					X
SO	on-site (EU15)	TT-23	S-38443-100608-KMV-053	10/6/2008	18 ft BGS		1485612.08	634148.31	1	X	X	X		X	X	X					X
SO	on-site (EU15)	TT-43	S-38443-110817-BW-033	11/8/2017	6-8 ft BGS		1485676.28	634308.41	1	X	X	X		X	X			X			X
SO	on-site (EU15)	TT-43	TT-43	11/8/2017	8-10 ft BGS		1485676.28	634308.41	1										X		
SO	on-site (EU15)	VAS-4	S-38443-110608-KMV-201	11/6/2008	24-25 ft BGS		1485707.32	634632.49	1	X											X
SO	on-site (EU16)	BH08-09	S-38443-062009-DR-002	6/20/2009	3-5 ft BGS		1485551.88	634653.81	3	X	X	X		X							X
SO	on-site (EU16)	BH32-13	S-38443-070213-JC-079	7/2/2013	26.5-28.5 ft BGS		1485380.45	634680.08	3	X											
SO	on-site (EU16)	BH33-13	S-38443-062613-JT-060	6/26/2013	22-25 ft BGS		1485436.06	634627.87	3	X											
SO	on-site (EU16)	BH33-13	S-38443-062613-JT-061	6/26/2013	22-25 ft BGS	Duplicate	1485436.06	634627.87	3	X											
SO	on-site (EU16)	BH34-13	S-38443-062713-JT-062	6/27/2013	4-6 ft BGS		1485511.37	634607.46	3	X											
SO	on-site (EU16)	BH34-13	S-38443-062713-JT-063	6/27/2013	24.5-26.5 ft BGS		1485511.37	634607.46	3	X											
SO	on-site (EU16)	BH35-13	S-38443-062813-JT-068	6/28/2013	24.5-26.5 ft BGS		1485293.03	634640.43	3	X											
SO	on-site (EU16)	BH36-13	S-38443-070113-JT-082	7/1/2013	0-2 ft BGS		1485364.87	634575.02	3	X											
SO	on-site (EU16)	BH36-13	S-38443-070113-JT-083	7/1/2013	30-32 ft BGS		1485364.87	634575.02	3	X											
SO	on-site (EU16)	BH37-13	S-38443-070213-JT-086	7/2/2013	25-27 ft BGS		1485443.32	634539.10	3	X											
SO	on-site (EU16)	BH38-13	S-38443-062713-JT-064	6/27/2013	2-4 ft BGS		1485490.90	634504.64	3	X											
SO	on-site (EU16)	BH38-13	S-38443-062713-JT-065	6/27/2013	25.5-27.5 ft BGS		1485490.90	634504.64	3	X											
SO	on-site (EU16)	BH39-13	S-38443-070113-JC-075	7/1/2013	28-30 ft BGS		1485259.05	634580.09	3	X											
SO	on-site (EU16)	BH40-13	S-38443-062813-JT-066	6/28/2013	18-20 ft BGS		1485270.64	634535.13	3	X											
SO	on-site (EU16)	BH40-13	S-38443-062813-JT-067	6/28/2013	18-20 ft BGS	Duplicate	1485270.64	634535.13	3	X											
SO	on-site (EU16)	BH42-13	S-38443-070113-JT-069	7/1/2013	2-4 ft BGS		1485476.78	634458.89	3	X											
SO	on-site (EU16)	BH42-13	S-38443-070113-JT-080	7/1/2013	2-4 ft BGS	Duplicate	1485476.78	634458.89	3	X											
SO	on-site (EU16)	BH42-13	S-38443-070113-JT-081	7/1/2013	20-22 ft BGS		1485476.78	634458.89	3	X											
SO	on-site (EU16)	BH43-13	S-38443-070113-JC-074	7/1/2013	26.8-28.7 ft BGS		1485191.08	634532.42	3	X											
SO	on-site (EU16)	BH44-13	S-38443-070113-JT-084	7/1/2013	2-4 ft BGS		1485229.63	634488.51	3	X											
SO	on-site (EU16)	BH44-13	S-38443-070113-JT-085	7/1/2013	35.5-37.5 ft BGS		1485229.63	634488.51	3	X											
SO	on-site (EU16)	BH44-13	S-38443-070213-JT-084	7/2/2013	2-4 ft BGS		1485229.63	634488.51	3					X							
SO	on-site (EU16)	BH44-13	S-38443-070213-JT-085	7/2/2013	35.5-37.5 ft BGS		1485229.63	634488.51	3					X							
SO	on-site (EU16)	BH136-18	S-38443-010818-JC-032	1/8/2018	1-3 ft BGS		1485480.67	634697.38	1	X	X	X		X	X			X	X		X
SO	on-site (EU16)	BH136-18	S-38443-010818-JC-033	1/8/2018	1-3 ft BGS	Duplicate	1485480.67	634697.38	1	X	X	X		X	X			X			X
SO	on-site (EU16)	BH136-18	S-38443-010818-JC-034	1/8/2018	15-17 ft BGS		1485480.67	634697.38	1	X	X	X		X	X			X	X		X
SO	on-site (EU16)	BH137-18	S-38443-010818-JC-030	1/8/2018	13-15 ft BGS		1485250.88	634627.28	1	X	X	X		X	X			X	X		X
SO	on-site (EU16)	BH137-18	S-38443-010818-JC-031	1/8/2018	26-28 ft BGS		1485250.88	634627.28	1	X	X	X		X	X			X	X		X
SO	on-site (EU16)	BH138-18	S-38443-010918-JC-035	1/9/2018	8-10 ft BGS		1485573.98	634462.13	1	X	X	X		X	X			X	X		X
SO	on-site (EU16)	BH139-18	S-38443-010418-JC-028	1/4/2018	13-15 ft BGS		1484800.21	634285.43	1	X	X	X		X	X			X	X		X
SO	on-site (EU16)	BH140-18	S-38443-010818-JC-029	1/8/2018	13-15 ft BGS		1485039.76	634174.94	1	X	X	X		X	X			X	X		X
SO	on-site (EU16)	BH141-18	S-38443-010918-JC-036	1/9/2018	6-8 ft BGS		1484879.80	634098.19	1	X	X	X		X	X			X	X		X
SO	on-site (EU16)	BH142-18	S-38443-010418-JC-027	1/4/2018	8-10 ft BGS		1484541.45	633955.89	1	X	X	X		X	X			X	X		X
SO	on-site (EU16)	GP01-18	S-38443-012518-JC-064	1/25/2018	5.5-6.5 ft bgs		1484966.01	634100.25	1	X										X	X
SO	on-site (EU16)	GP32-18	S-38443-011018-JC-037	1/10/2018	10-11 ft BGS		1484514.28	633941.37	1	X										X	X
SO	on-site (EU16)	TP-5	S-38443-100608-KMV-054	10/6/2008	8 ft BGS		1484606.25	633909.35	1												X
SO	on-site (EU16)	TP-5	S-38443-100608-KMV-055	10/6/2008	12 ft BGS		1484606.25	633909.35	1	X	X	X		X	X	X					X
SO	on-site (EU16)	TP-5	S-38443-100608-KMV-056	10/6/2008	17 ft BGS		1484606.25	633909.35	1	X	X	X		X	X	X					X
SO	on-site (EU16)	TP-6	S-38443-100608-KMV-057	10/6/2008	11 ft BGS		1485010.70	634157.38	1	X	X	X		X	X	X					X
SO	on-site (EU16)	TP-6	S-38443-100608-KMV-058	10/6/2008	20 ft BGS		1485010.70	634157.38	1	X	X	X		X	X	X					X
SO	on-site (EU16)	TT-7	S-38443-100708-KMV-061	10/7/2008	6 ft BGS		1484949.84	634105.90	1	X	X	X		X	X	X					X
SO	on-site (EU16)	TT-7	S-38443-100708-KMV-063	10/7/2008	16 ft BGS		1484949.84	634105.90	1	X	X	X		X	X	X					X
SO	on-site (EU16)	TT-21	S-38443-100808-KMV-068	10/8/2008	8 ft BGS		1485296.39	634453.68	1	X	X	X		X	X	X					X
SO	on-site (EU16)	TT-21	S-38443-100808-KMV-069	10/8/2008	21 ft BGS		1485296.39	634453.68	1	X	X	X		X	X	X					X
SO	on-site (EU16)	TT-22	S-38443-100808-KMV-066	10/8/2008	6 ft BGS		1485470.26	634460.17	1	X	X	X		X	X	X					X
SO	on-site (EU16)	TT-22	S-38443-100808-KMV-067	10/8/2008	21 ft BGS		1485470.26	634460.17	1	X	X	X		X	X	X					X
SO	on-site (EU16)	TT-24	SO-38443-032018-BW-002	3/20/2018	2-4 ft bgs		1485276.33	634449.08	2	X	X	X		X	X			X			X
SO	on-site (EU16)	TT-24	SO-38443-032018-BW-001	3/20/2018	13-15 ft BGS		1485276.33	634449.08	2	X	X	X		X	X			X	X		X
SO	on-site (EU16)	VAS-5	S-38443-121508-KMV-096	12/15/2008	7 ft BGS		1485438.07	634476.29	1												X
SO	on-site (EU17)	BH30-13	S-38443-070213-JT-087	7/2/2013	29.5-31.5 ft BGS		1485290.65	634704.34	3	X											
SO	on-site (EU17)	BH31-13	S-38443-070113-JC-076	7/1/2013	18-20 ft BGS		1485281.87	634682.39	3	X											
SO	on-site (EU17)	BH31-13	S-38443-070113-JC-077	7/1/2013	18-20 ft BGS	Duplicate	1485281.87	634682.39	3	X											

Table 1

Soil Sample List - Operable Unit 1
South Dayton Dump and Landfill Site
Moraine, Ohio

Matrix	EU	Sample Location	Sample ID	Sample Date	Sample Depth	Sample Type	X	Y	Method	Volatiles	Semi-Volatiles	Metals	Metals (Lead Speciation)	PCBs	Pesticides	Herbicides	Petroleum Products	Dioxin/ Furans	Asbestos	Geotechnical	General Chemistry
SO	on-site (EU17)	BH31-13	S-38443-070113-JC-078	7/1/2013	26.5-28.5 ft BGS		1485281.87	634682.39	3	X											
SO	on-site (EU17)	BH162-18	S-38443-050818-JC-071	5/8/2018	16-18 ft BGS					X	X	X		X	X						X
SO	on-site (EU17)	BH163-18	S-38443-050818-JC-070	5/8/2018	17-19 ft BGS		1485235.17	634728.53	1	X	X	X		X	X						X
SO	on-site (EU17)	S05(OEPA)	96-DV-03-S05	7/9/1996	5 ft BGS		1483770.24	633291.33	N/A	X	X	X		X	X						
SO	on-site (EU17)	SS-1	S-38443-110917-BW-039	11/9/2017	0-2 ft BGS		1485766.88	634832.81	2	X	X	X	X	X	X						X
SO	on-site (EU17)	SS-2	S-38443-110917-BW-037	11/9/2017	0.2-2.2 ft BGS		1485518.70	634795.05	2	X	X	X		X	X						X
SO	on-site (EU17)	SS-3	S-38443-110917-BW-034	11/9/2017	0.3-2.3 ft BGS		1485255.09	634722.61	2	X	X	X	X	X	X						X
SO	on-site (EU17)	SS-3	S-38443-110917-BW-035	11/9/2017	0.3-2.3 ft BGS	Duplicate	1485255.09	634722.61	2	X	X	X		X	X						X
SO	on-site (EU17)	SS-4	SS-38443-122018-JC-004	12/20/2018	0-2 ft BGS		1485085.56	634629.83	2	X	X	X		X	X						X
SO	on-site (EU17)	SS-5	SS-38443-122018-JC-005	12/20/2018	0.33-2.33 ft BGS		1484848.97	634428.09	3	X	X	X		X	X						X
SO	on-site (EU17)	SS-5	SS-38443-122018-JC-226	12/20/2018	0.33-2.33 ft BGS	Duplicate	1484848.97	634428.09	3	X	X	X		X	X						X
SO	on-site (EU17)	SS-6	SS-38443-122018-JC-006	12/20/2018	0.33-2.33 ft BGS		1483718.79	633201.87	3	X	X	X	X	X	X						X
SO	on-site (EU17)	SS-7	SS-38443-122018-JC-007	12/20/2018	0-2 ft BGS		1484380.60	633915.40	3	X	X	X		X	X						X
SO	on-site (EU17)	SS-8	SS-38443-122018-JC-008	12/20/2018	0-2 ft BGS		1484247.69	633771.02	3	X	X	X	X	X	X						X
SO	on-site (EU17)	SS-9	SS-38443-122018-JC-009	12/20/2018	0-2 ft BGS		1483993.00	633555.97	3	X	X	X		X	X						X
SO	on-site (EU17)	SS-10	SS-38443-122018-JC-010	12/20/2018	0-2 ft BGS		1483848.59	633378.51	3	X	X	X	X	X	X						X
SO	on-site (EU17)	SS-11	SS-38443-122018-JC-011	12/20/2018	0-2 ft BGS		1484646.17	634190.10	3	X	X	X		X	X						X
SO	on-site (EU17)	SS-95	SS-38443-122018-JC-095	12/20/2018	0-2 ft BGS		1485525.45	634795.05	2							X					
SO	on-site (EU17)	SS-96	SS-38443-122018-JC-096	12/20/2018	0-2 ft BGS		1485085.56	634629.83	2							X					
SO	on-site (EU17)	SS-97	SS-38443-122018-JC-097	12/20/2018	0.33-2.33 ft BGS		1483718.79	633201.87	3							X					
SO	on-site (EU17)	SS-127	SS-38443-122018-JC-127	12/20/2018	0-2 ft BGS		1484247.69	633771.02	3							X					
SO	on-site (EU17)	SS-128	SS-38443-122018-JC-128	12/20/2018	0-2 ft BGS		1483993.00	633555.97	3							X					
SO	on-site (EU17)	SS-129	SS-38443-122018-JC-129	12/20/2018	0-2 ft BGS		1484646.17	634190.10	3							X					
SO	on-site (EU17)	SS-174-AS	SS-38443-122018-JC-174	12/20/2018	0-0.5 ft BGS		1484920.41	632860.24	2										X		
SO	on-site (EU17)	SS-175-AS	SS-38443-112718-JC-175	11/27/2018	0-0.5 ft BGS		1485085.56	634629.83	2										X		
SO	on-site (EU17)	SS-176-AS	SS-38443-112718-JC-176	11/27/2018	0.33-0.83 ft BGS		1484652.40	634185.70	2										X		
SO	on-site (EU17)	SS-177-AS	SS-38443-122018-JC-177	12/20/2018	0-0.5 ft BGS		1484254.78	633756.43	2										X		
SO	on-site (EU17)	SS-178-AS	SS-38443-122018-JC-178	12/20/2018	0-0.5 ft BGS		1483848.59	633378.51	2										X		
SO	on-site (EU17)	TP-8	TP-8	11/9/2017	4-6 ft BGS		1485773.63	634832.81	1										X		
SO	on-site (EU17)	TP-8	S-38443-110917-BW-040	11/9/2017	14-15 ft BGS		1485773.63	634832.81	1	X	X	X		X	X			X			X
SO	on-site (EU17)	TP-9	TP-9	11/9/2017	0-2 ft BGS		1485525.45	634795.05	1										X		
SO	on-site (EU17)	TP-9	S-38443-110917-BW-038	11/9/2017	2-4 ft BGS		1485525.45	634795.05	1	X	X	X		X	X			X			X
SO	on-site (EU17)	TP-10	S-38443-110917-BW-036	11/9/2017	4-6 ft BGS		1485261.84	634722.61	1	X	X	X		X	X			X			X
SO	on-site (EU17)	TP-10	TP-10	11/9/2017	8-10 ft BGS		1485261.84	634722.61	1										X		
SO	on-site (EU17)	TT-1	S-38443-092608-KMV-018	9/26/2008	8 ft BGS		1483730.04	633195.31	1	X	X	X		X	X	X					X
SO	on-site (EU17)	TT-1	S-38443-092608-KMV-019	9/26/2008	15 ft BGS		1483730.04	633195.31	1	X	X	X		X	X	X					X
SO	on-site (EU17)	TT-2	S-38443-092608-KMV-020	9/26/2008	9 ft BGS		1483993.00	633555.97	1	X	X	X		X	X	X					X
SO	on-site (EU17)	TT-2	S-38443-092608-KMV-021	9/26/2008	13.5 ft BGS		1483993.00	633555.97	1	X	X	X		X	X	X					X
SO	on-site (EU17)	TT-3	S-38443-092908-KMV-022	9/29/2008	5 ft BGS		1484254.78	633756.43	1	X	X	X		X	X	X					X
SO	on-site (EU17)	TT-3	S-38443-092908-KMV-023	9/29/2008	10 ft BGS		1484254.78	633756.43	1	X	X	X		X	X	X					X
SO	on-site (EU17)	TT-4	S-38443-092908-KMV-024	9/29/2008	3 ft BGS		1484380.60	633915.40	1	X	X	X		X	X	X					X
SO	on-site (EU17)	TT-4	S-38443-092908-KMV-025	9/29/2008	5 ft BGS		1484380.60	633915.40	1	X	X	X		X	X	X					X
SO	on-site (EU17)	TT-4	S-38443-092908-KMV-026	9/29/2008	9 ft BGS		1484380.60	633915.40	1	X	X	X		X	X	X					X
SO	on-site (EU17)	TT-4	S-38443-092908-KMV-027	9/29/2008	12 ft BGS		1484380.60	633915.40	1	X	X	X		X	X	X					X
SO	on-site (EU17)	TT-4	S-38443-092908-KMV-028	9/29/2008	20 ft BGS		1484380.60	633915.40	1	X	X	X		X	X	X					X
SO	on-site (EU17)	TT-5	S-38443-093008-KMV-029	9/30/2008	3 ft BGS		1484652.40	634185.70	1	X	X	X		X	X	X					X
SO	on-site (EU17)	TT-5	S-38443-093008-KMV-030	9/30/2008	7 ft BGS		1484652.40	634185.70	1	X	X	X		X	X	X					X
SO	on-site (EU17)	TT-5	S-38443-093008-KMV-031	9/30/2008	14 ft BGS		1484652.40	634185.70	1	X	X	X		X	X	X					X
SO	on-site (EU17)	TT-5	S-38443-093008-KMV-031-D	9/30/2008	14 ft BGS	Duplicate	1484652.40	634185.70	1	X	X	X		X	X	X					X
SO	on-site (EU17)	TT-5	S-38443-093008-KMV-032	9/30/2008	17 ft BGS		1484652.40	634185.70	1	X	X	X		X	X	X					X
SO	on-site (EU17)	TT-19	S-38443-100708-KMV-059	10/7/2008	7 ft BGS		1484848.97	634428.09	1	X	X	X		X	X	X					X
SO	on-site (EU17)	TT-19	S-38443-100708-KMV-060	10/7/2008	9 ft BGS		1484848.97	634428.09	1	X	X	X		X	X	X					X
SO	on-site (EU17)	TT-20	S-38443-100708-KMV-065	10/7/2008	7 ft BGS		1485085.56	634629.83	1		X	X		X	X	X					X
SO	on-site (EU17)	TT-20	S-38443-100708-KMV-065-D	10/7/2008	7 ft BGS		1485085.56	634629.83	1	X											X
SO	on-site (EU17)	TT-20	S-38443-100708-KMV-064	10/7/2008	15 ft BGS		1485085.56	634629.83	1	X	X	X		X	X	X					X
SO	on-site (EU17)	TT-20	S-38443-100808-KMV-071	10/8/2008	-		1485085.56	634629.83	1					X							
SO	on-site (EU18)	S2(EPA)	S2	10/23/1990	0-1 ft BGS		1484269.71	633486.29	N/A	X	X	X		X							
SO	on-site (EU18)	S03(OEPA)	96-DV-03-S03	7/9/1996	1.5-2 ft BGS		1484191.31	633468.59	N/A	X	X	X		X	X						
SO	on-site (EU18)	S03(OEPA)	96-DV-03-D03	7/9/1996	1.5-2 ft BGS	Duplicate	1484191.31	633468.59	N/A	X	X	X		X	X						
SO	on-site (EU18)	SS-26	SS-38443-102618-JC-026	10/26/2018	0-2 ft BGS		1484315.41	633538.77	2	X	X	X		X	X			X			X
SO	on-site (EU18)	SS-27	SS-38443-102618-JC-027	10/26/2018	0-2 ft BGS		1484129.55	633424.28	2	X	X	X		X	X			X			X
SO	on-site (EU18)	SS-28	SS-38443-102618-JC-028	10/26/2018	0-2 ft BGS		1484334.66	633397.15	2	X	X	X	X	X	X			X			X
SO	on-site (EU18)	SS-33	SS-38443-102618-JC-033	10/26/2018	0.17-2.17 ft BGS		1484540.82	633168.34	2	X	X	X	X	X	X			X			X
SO	on-site (EU18)	SS-34	SS-38443-102618-JC-034	10/26/2018	0-2 ft BGS		1484536.37	633117.46	2	X	X	X		X	X			X			X
SO	on-site (EU18)	SS-105	SS-38443-102618-JC-105	10/26/2018	0-2 ft BGS		1484315.41	633538.77	2							X					
SO	on-site (EU18)	SS-179-AS	SS-38443-102618-JC-179	10/26/2018	0-0.5 ft BGS		1484315.41	633538.77	2										X		
SO	on-site (EU18)	SS-180-AS	SS-38443-102618-JC-180	10/26/2018	0.17-0.67 ft BGS		1484540.82	633168.34	2										X		

Table 1

Soil Sample List - Operable Unit 1
South Dayton Dump and Landfill Site
Moraine, Ohio

Matrix	EU	Sample Location	Sample ID	Sample Date	Sample Depth	Sample Type	X	Y	Method	Volatiles	Semi-Volatiles	Metals	Metals (Lead Speciation)	PCBs	Pesticides	Herbicides	Petroleum Products	Dioxin/ Furans	Asbestos	Geotechnical	General Chemistry
SO	on-site (EU19)	BH75-13	S-38443-062513-JT-045	6/25/2013	0-2 ft BGS		1485129.40	633752.57	3	X											
SO	on-site (EU19)	BH75-13	S-38443-062513-JT-046	6/25/2013	20-22 ft BGS		1485129.40	633752.57	3	X											
SO	on-site (EU19)	BH76-13	S-38443-062513-JC-052	6/25/2013	8-10 ft BGS		1485111.52	633697.13	3	X											
SO	on-site (EU19)	BH76-13	S-38443-062513-JC-053	6/25/2013	18-20 ft BGS		1485111.52	633697.13	3	X											
SO	on-site (EU19)	BH77-13	S-38443-062513-JT-047	6/25/2013	20-22 ft BGS		1485163.50	633714.25	3	X											
SO	on-site (EU19)	BH79-13	S-38443-062613-JC-056	6/26/2013	4-6 ft BGS		1485151.35	633665.55	3	X											
SO	on-site (EU19)	BH79-13	S-38443-062613-JC-057	6/26/2013	21-23 ft BGS		1485151.35	633665.55	3	X											
SO	on-site (EU19)	BH82-13	S-38443-062413-JC-039	6/24/2013	19-21 ft BGS		1485113.83	633611.25	3	X											
SO	on-site (EU19)	BH85-13	S-38443-062513-JC-040	6/25/2013	8-10 ft BGS		1485083.04	633529.43	3	X											
SO	on-site (EU19)	BH85-13	S-38443-062513-JC-051	6/25/2013	18-20 ft BGS		1485083.04	633529.43	3	X											
SO	on-site (EU19)	BH86-13	S-38443-062413-JC-038	6/24/2013	22.5-24.5 ft BGS		1485154.66	633505.48	3	X											
SO	on-site (EU19)	BH87-13	S-38443-062613-JC-058	6/26/2013	18-20 ft BGS		1485034.35	633435.24	3	X											
SO	on-site (EU19)	BH87-13	S-38443-062613-JC-059	6/26/2013	18-20 ft BGS	Duplicate	1485034.35	633435.24	3	X											
SO	on-site (EU19)	BH88-13	S-38443-062413-JC-037	6/24/2013	18-20 ft BGS		1485148.48	633420.28	3	X											
SO	on-site (EU19)	BH90-13	S-38443-070813-JL-088	7/8/2013	26.5-28.5 ft BGS		1484760.18	633354.11	3	X											
SO	on-site (EU19)	BH91-13	S-38443-062713-JC-072	6/27/2013	23-25 ft BGS		1484800.81	633384.03	3	X											
SO	on-site (EU19)	BH92-13	S-38443-070913-JC-089	7/9/2013	18.8-20.8 ft BGS		1484841.14	633414.20	3	X											
SO	on-site (EU19)	BH92-13	S-38443-070913-JC-090	7/9/2013	18.8-20.8 ft BGS	Duplicate	1484841.14	633414.20	3	X											
SO	on-site (EU19)	BH93-13	S-38443-062813-JC-073	6/28/2013	13-15 ft BGS		1484806.37	633332.95	3	X											
SO	on-site (EU19)	BH94-17	S-38443-122017-JC-016	12/20/2017	13-14.8 ft BGS		1484805.11	633805.54	1	X	X	X		X	X			X	X		X
SO	on-site (EU19)	BH95-17	S-38443-121917-JC-015	12/19/2017	5-7 ft BGS		1485047.97	633761.35	1	X	X	X		X	X			X	X		X
SO	on-site (EU19)	BH96-18	S-38443-010318-JC-025	1/3/2018	13-15 ft BGS		1484449.50	633391.50	1	X	X	X		X	X			X	X		X
SO	on-site (EU19)	BH164-17	S-38443-122017-JC-017	12/20/2017	13-15 ft BGS		1484566.48	633772.89	1			X									
SO	on-site (EU19)	BH164-17	S-38443-122017-JC-018	12/20/2017	18-20 ft BGS		1484566.48	633772.89	1	X	X	X		X	X				X		X
SO	on-site (EU19)	BH165-17	S-38443-122017-JC-019	12/20/2017	13-15 ft BGS		1484411.66	633727.97	1			X									
SO	on-site (EU19)	BH165-17	S-38443-122017-JC-020	12/20/2017	21.5-23.5 ft BGS		1484411.66	633727.97	1	X	X	X		X	X				X		X
SO	on-site (EU19)	BH166-17	S-38443-121917-JC-012	12/19/2017	1-3 ft BGS		1485072.32	633642.36	1			X									
SO	on-site (EU19)	BH166-17	S-38443-121917-JC-013	12/19/2017	18-20 ft BGS		1485072.32	633642.36	1	X	X	X		X	X				X		X
SO	on-site (EU19)	BH168-17	S-38443-122117-JC-024	12/21/2017	12.5-14.5 ft BGS		1484412.33	633615.86	1			X									
SO	on-site (EU19)	BH172-17	S-38443-120817-JC-007	12/8/2017	12-14 ft BGS		1484844.37	633210.51	1			X									
SO	on-site (EU19)	BH173-17	S-38443-122117-JC-021	12/21/2017	5-7 ft BGS		1484405.46	633838.29	1			X									
SO	on-site (EU19)	BH173-17	S-38443-122117-JC-022	12/21/2017	17.5-19.5 ft BGS		1484405.46	633838.29	1	X	X	X		X	X				X		X
SO	on-site (EU19)	BH173-17	S-38443-122117-JC-023	12/21/2017	17.5-19.5 ft BGS	Duplicate	1484405.46	633838.29	1	X	X	X		X	X						X
SO	on-site (EU19)	BH176-18	S-38443-051618-JC-072	5/16/2018	18-20 ft BGS		1483928.01	633381.67	1	X	X	X		X	X						X
SO	on-site (EU19)	GP25-18	S-38443-012918-JC-066	1/29/2018	15-16 ft bgs		1484833.55	633800.05	1	X										X	X
SO	on-site (EU19)	GP26-18	S-38443-012918-JC-065	1/29/2018	13.5-14.5 ft bgs		1485025.84	633768.62	1	X										X	X
SO	on-site (EU19)	GP27-18	S-38443-013018-JC-067	1/30/2018	7-8 ft bgs		1484526.08	633585.18	1	X										X	X
SO	on-site (EU19)	GP28-18	S-38443-013018-JC-068	1/30/2018	15-16 ft bgs		1484848.10	633443.03	1	X										X	X
SO	on-site (EU19)	GP29-18	S-38443-013018-JC-069	1/30/2018	9-10 ft bgs		1485165.16	633490.14	1	X										X	X
SO	on-site (EU19)	S1(EPA)	S1	10/23/1990	1-2 ft BGS		1484229.63	633548.20	N/A	X	X	X		X							
SO	on-site (EU19)	S3(EPA)	S3	10/23/1990	0-1 ft BGS		1484970.57	633518.33	N/A	X	X	X		X							
SO	on-site (EU19)	S4(EPA)	S4	10/23/1990	0-1 ft BGS		1484752.12	633355.01	N/A	X	X	X		X							
SO	on-site (EU19)	S5(EPA)	S5	10/23/1990	1-2 ft BGS		1484183.45	633608.55	N/A	X	X	X		X							
SO	on-site (EU19)	S6(EPA)	S6	10/23/1990	0-1 ft BGS		1484062.69	633461.21	N/A	X	X	X		X							
SO	on-site (EU19)	S7(EPA)	S7	10/23/1990	0-1 ft BGS		1485146.39	633726.03	N/A	X	X	X		X							
SO	on-site (EU19)	S8(EPA)	S8	10/23/1990	0-1 ft BGS		1485052.56	633360.24	N/A	X	X	X		X							
SO	on-site (EU19)	S9(EPA)	S9	10/23/1990	0-1 ft BGS		1484467.38	633138.55	N/A	X	X	X		X							
SO	on-site (EU19)	S11(EPA)	S11	10/23/1990	0-1 ft BGS		1484737.95	633322.60	N/A	X	X	X		X							
SO	on-site (EU19)	S01(OEPA)	96-DV-03-S01	7/9/1996	4-4.6 ft BGS		1484782.99	633746.27	N/A	X	X	X		X	X						
SO	on-site (EU19)	S02(OEPA)	96-DV-03-S02	7/9/1996	0-0.1 ft BGS		1484660.23	633675.96	N/A	X	X	X		X	X						
SO	on-site (EU19)	S04(OEPA)	96-DV-03-S04	7/9/1996	1.5-2 ft BGS		1484451.97	633451.24	N/A	X	X	X		X	X						
SO	on-site (EU19)	S06(OEPA)	96-DV-03-S06	7/9/1996	1.5-2.5 ft BGS		1484250.60	633325.79	N/A	X	X	X		X	X						
SO	on-site (EU19)	S09(OEPA)	96-DV-03-S09	7/9/1996	0.3-0.5 ft BGS		1484334.89	633822.20	N/A	X	X	X		X	X						
SO	on-site (EU19)	S10(OEPA)	96-DV-03-S10	7/9/1996	0-0.3 ft BGS		1484247.64	633576.15	N/A	X	X	X		X	X						
SO	on-site (EU19)	S11(OEPA)	96-DV-03-S11	7/9/1996	0.2-0.3 ft BGS		1484992.92	633154.45	N/A	X	X	X		X	X						
SO	on-site (EU19)	SS-20	S-38443-103117-BW-005	10/31/2017	0-2 ft BGS		1484416.78	633842.91	2	X	X	X		X	X						X
SO	on-site (EU19)	SS-21	SS-38443-111918-JC-021	11/19/2018	0-2 ft BGS		1485047.97	633761.35	2	X	X	X		X	X						X
SO	on-site (EU19)	SS-22	S-38443-110717-BW-029	11/7/2017	0-2 ft BGS		1484410.00	633740.64	2	X	X	X	X	X	X						X
SO	on-site (EU19)	SS-23	SS-38443-111918-JC-023	11/19/2018	0-2 ft BGS		1484831.95	633727.01	2	X	X	X	X	X	X						X
SO	on-site (EU19)	SS-24	S-38443-110717-BW-026	11/7/2017	0-2 ft BGS		1484713.01	633662.82	2	X	X	X		X	X						X
SO	on-site (EU19)	SS-29	S-38443-103117-BW-003	10/31/2017	0-2 ft BGS		1483940.43	633297.47	2	X	X	X		X	X						X
SO	on-site (EU19)	SS-30	S-38443-110217-BW-019	11/2/2017	0-2 ft BGS		1484560.60	633292.75	2	X	X	X		X	X						X
SO	on-site (EU19)	SS-31	S-38443-110217-BW-017	11/2/2017	0-2 ft BGS		1484905.80	633178.79	2	X	X	X	X	X	X						X
SO	on-site (EU19)	SS-35	S-38443-103017-BW-001	10/30/2017	0-2 ft BGS		1484113.72	633225.82	2	X	X	X		X	X			X			X
SO	on-site (EU19)	SS-36	S-38443-103117-BW-007	10/31/2017	0-2 ft BGS		1484224.66	633054.35	2	X	X	X		X	X						X
SO	on-site (EU19)	SS-106	SS-38443-111918-JC-106	11/19/2018	0-2 ft BGS		1485047.97	633761.35	2							X					
SO	on-site (EU19)	SS-107	SS-38443-111918-JC-107	11/19/2018	0-2 ft BGS		1484831.95	633727.01	2							X					

Table 1

Soil Sample List - Operable Unit 1
South Dayton Dump and Landfill Site
Moraine, Ohio

Matrix	EU	Sample Location	Sample ID	Sample Date	Sample Depth	Sample Type	X	Y	Method	Volatiles	Semi-Volatiles	Metals	Metals (Lead Speciation)	PCBs	Pesticides	Herbicides	Petroleum Products	Dioxin/ Furans	Asbestos	Geotechnical	General Chemistry
SO	on-site (EU19)	SS-108 (SS-22/TT-32)	SS-38443-111618-JC-108	11/16/2018	0-2 ft BGS		1484410.00	633740.64	2							X					
SO	on-site (EU19)	SS-110 (SS-31/TT39)	SS-38443-111918-JC-110	11/19/2018	0-2 ft BGS		1484886.39	633177.06	2							X					
SO	on-site (EU19)	SS-110 (SS-31/TT39)	SS-38443-111918-JC-126	11/19/2018	0-2 ft BGS	Duplicate	1484886.39	633177.06	2							X					
SO	on-site (EU19)	SS-111 (SS-30/TT-38)	SS-38443-111618-JC-111	11/16/2018	0-2 ft BGS		1484566.49	633302.53	2							X					
SO	on-site (EU19)	SS-113 (SS-35/TP-15)	SS-38443-111618-JC-113	11/16/2018	0-2 ft BGS		1484099.77	633219.33	1							X					
SO	on-site (EU19)	SS-181-AS	SS-38443-111918-JC-181	11/19/2018	0-0.5 ft BGS		1485047.97	633761.35	2										X		
SO	on-site (EU19)	SS-182-AS	SS-38443-111918-JC-182	11/19/2018	0-0.5 ft BGS		1484831.95	633727.01	2										X		
SO	on-site (EU19)	SS-183-AS	SS-38443-111618-JC-183	11/16/2018	0-0.5 ft BGS		1484416.78	633842.91	2										X		
SO	on-site (EU19)	SS-184-AS	SS-38443-111618-JC-184	11/16/2018	0-0.5 ft BGS		1484410.00	633740.64	2										X		
SO	on-site (EU19)	SS-185-AS	SS-38443-111618-JC-185	11/16/2018	0-0.5 ft BGS		1484713.01	633662.82	2										X		
SO	on-site (EU19)	SS-186-AS	SS-38443-111918-JC-186	11/19/2018	0-0.5 ft BGS		1484886.39	633177.06	2										X		
SO	on-site (EU19)	SS-187-AS	SS-38443-111618-JC-187	11/16/2018	0-0.5 ft BGS		1484566.49	633302.53	2										X		
SO	on-site (EU19)	SS-188-AS	SS-38443-101618-JC-188	10/16/2018	0-0.5 ft BGS		1484099.77	633219.33	2										X		
SO	on-site (EU19)	SS-189-AS	SS-38443-111618-JC-189	11/16/2018	0-0.5 ft BGS		1483940.43	633297.47	2										X		
SO	on-site (EU19)	SS-190-AS	SS-38443-111918-JC-190	11/19/2018	0-0.5 ft BGS		1484224.66	633054.35	2										X		
SO	on-site (EU19)	SS-191-AS	SS-38443-111618-JC-191	11/16/2018	0-0.5 ft BGS		1484449.50	633391.50	2										X		
SO	on-site (EU19)	SS-192-AS	SS-38443-111618-JC-192	11/16/2018	0-0.5 ft BGS		1484892.83	633445.05	2										X		
SO	on-site (EU19)	TP-1	S-38443-092308-KMV-004	9/23/2008	4 ft BGS		1484004.19	633272.62	1	X	X	X		X	X	X					X
SO	on-site (EU19)	TP-1	S-38443-092308-KMV-003	9/23/2008	6 ft BGS		1484004.19	633272.62	1	X	X	X		X	X	X					X
SO	on-site (EU19)	TP-1	S-38443-092308-KMV-002	9/23/2008	8 ft BGS		1484004.19	633272.62	1	X	X	X		X	X	X					X
SO	on-site (EU19)	TP-1	S-38443-092308-KMV-001	9/23/2008	13 ft BGS		1484004.19	633272.62	1	X	X	X		X	X	X					X
SO	on-site (EU19)	TP-2	S-38443-092408-KMV-005	9/24/2008	1 ft BGS		1484492.43	633227.44	1	X	X	X		X	X	X					X
SO	on-site (EU19)	TP-2	S-38443-092408-KMV-006	9/24/2008	5 ft BGS		1484492.43	633227.44	1	X	X	X		X	X	X					X
SO	on-site (EU19)	TP-3	S-38443-092408-KMV-007	9/24/2008	4 ft BGS		1484800.32	633406.06	1	X	X	X		X	X	X					X
SO	on-site (EU19)	TP-3	S-38443-092408-KMV-008	9/24/2008	8.7 ft BGS		1484800.32	633406.06	1	X	X	X		X	X	X					X
SO	on-site (EU19)	TP-3	S-38443-092408-KMV-009	9/24/2008	10.4 ft BGS		1484800.32	633406.06	1	X	X	X		X	X	X					X
SO	on-site (EU19)	TP-3	F-38443-092408-KMV-010	9/24/2008	13.5 ft BGS		1484800.32	633406.06	1												X
SO	on-site (EU19)	TP-3	S-38443-092408-KMV-011	9/24/2008	16 ft BGS		1484800.32	633406.06	1	X	X	X		X	X	X					X
SO	on-site (EU19)	TP-4	S-38443-092408-KMV-012	9/24/2008	5 ft BGS		1484831.95	633727.01	1	X	X	X		X	X	X					X
SO	on-site (EU19)	TP-4	S-38443-092408-KMV-013	9/24/2008	10 ft BGS		1484831.95	633727.01	1	X	X	X		X	X	X					X
SO	on-site (EU19)	TP-4	S-38443-092408-KMV-014	9/24/2008	18.6 ft BGS		1484831.95	633727.01	1	X	X	X		X	X	X					X
SO	on-site (EU19)	TP-11	S-38443-103117-BW-006	10/31/2017	8-10 ft BGS		1484423.53	633842.91	1	X	X	X		X	X			X			X
SO	on-site (EU19)	TP-12	S-38443-110117-BW-009	11/1/2017	8-10 ft BGS		1484896.72	633448.75	1	X	X	X		X	X			X			X
SO	on-site (EU19)	TP-12	S-38443-110117-BW-010	11/1/2017	8-10 ft BGS	Duplicate	1484896.72	633448.75	1	X	X	X		X	X			X			X
SO	on-site (EU19)	TP-14	S-38443-103117-BW-004	10/31/2017	8-10 ft BGS		1483947.18	633297.47	1	X	X	X		X	X			X			X
SO	on-site (EU19)	TP-15	S-38443-103017-BW-002	10/30/2017	10-12 ft BGS		1484120.47	633225.82	1	X	X	X		X	X						X
SO	on-site (EU19)	TP-16	S-38443-103117-BW-008	10/31/2017	4-6 ft BGS		1484231.41	633054.35	1	X	X	X		X	X			X			X
SO	on-site (EU19)	TT-15	S-38443-092508-KMV-016	9/25/2008	8.6 ft BGS		1484091.25	633159.20	1	X	X	X		X	X	X					X
SO	on-site (EU19)	TT-15	S-38443-092508-KMV-016-D	9/25/2008	8.6 ft BGS	Duplicate	1484091.25	633159.20	1	X	X	X		X	X	X					X
SO	on-site (EU19)	TT-31	TT-31	11/7/2017	8-10 ft BGS		1484552.95	633774.42	1										X		
SO	on-site (EU19)	TT-31	S-38443-110717-BW-028	11/7/2017	14-15 ft BGS		1484552.95	633774.42	1	X	X	X		X	X			X			X
SO	on-site (EU19)	TT-32	S-38443-110717-BW-030	11/7/2017	12-14 ft BGS		1484410.21	633739.69	1	X	X	X		X	X			X	X		X
SO	on-site (EU19)	TT-33	TT-33	11/3/2017	2-4 ft BGS		1485070.52	633651.18	1										X		
SO	on-site (EU19)	TT-33	S-38443-110317-BW-020	11/3/2017	12-14 ft BGS		1485070.52	633651.18	1	X	X	X		X	X			X			X
SO	on-site (EU19)	TT-34	S-38443-110717-BW-027	11/7/2017	8-10 ft BGS		1484713.36	633662.03	1	X	X	X		X	X			X	X		X
SO	on-site (EU19)	TT-35	S-38443-110617-BW-025	11/6/2017	12-14 ft BGS		1484403.97	633615.59	1	X	X	X		X	X			X	X		X
SO	on-site (EU19)	TT-36	S-38443-110617-BW-024	11/6/2017	2-4 ft BGS		1484522.77	633640.48	1	X	X	X		X	X			X			X
SO	on-site (EU19)	TT-36	TT-36	11/6/2017	8-10 ft BGS		1484522.77	633640.48	1										X		
SO	on-site (EU19)	TT-37	TT-37	11/6/2017	4-6 ft BGS		1484724.99	633576.43	1										X		
SO	on-site (EU19)	TT-37	S-38443-110617-BW-023	11/6/2017	8-10 ft BGS		1484724.99	633576.43	1	X	X	X		X	X			X			X
SO	on-site (EU19)	TT-38	TT-38	11/2/2017	2-4 ft BGS		1484566.49	633302.53	1										X		
SO	on-site (EU19)	TT-39	S-38443-110217-BW-018	11/2/2017	8-10 ft BGS		1484886.39	633177.06	1	X	X	X		X	X			X			X

Notes:

1 Professionally Surveyed
2 Surveyed by Handheld GPS
3 Approximated
N/A Not Available

Table 2

Soil Sample List - Outside Operable Unit 1
South Dayton Dump and Landfill Site
Moraine, Ohio

Matrix	EU	Sample Location	Sample ID	Sample Date	Sample Depth	Sample Type	X	Y	Method	Volatiles	Semi-Volatiles	Metals	PCBs	Pesticides	Herbicides	Geotechnical	General Chemistry
SO	Background (Floodplain)	SS-201	SS-38443-121018-JC-201	12/10/2018	0-0.5 ft BGS		1488774.07	634391.54	2	X	X	X	X	X	X		X
SO	Background (Floodplain)	SS-201	SS-38443-121018-JC-218	12/10/2018	0.5-2 ft BGS		1488774.07	634391.54	2	X	X	X	X	X	X		X
SO	Background (Floodplain)	SS-202	SS-38443-121018-JC-202	12/10/2018	0-0.5 ft BGS		1488973.49	634418.63	2	X	X	X	X	X	X		X
SO	Background (Floodplain)	SS-202	SS-38443-121018-JC-219	12/10/2018	0.5-2 ft BGS		1488973.49	634418.63	2	X	X	X	X	X	X		X
SO	Background (Floodplain)	SS-203	SS-38443-121018-JC-203	12/10/2018	0-0.5 ft BGS		1489170.62	634455.60	2	X	X	X	X	X	X		X
SO	Background (Floodplain)	SS-203	SS-38443-121018-JC-220	12/10/2018	0.5-2 ft BGS		1489170.62	634455.60	2	X	X	X	X	X	X		X
SO	Background (Floodplain)	SS-204	SS-38443-121018-JC-204	12/10/2018	0-0.5 ft BGS		1489365.30	634501.05	2	X	X	X	X	X	X		X
SO	Background (Floodplain)	SS-204	SS-38443-121018-JC-221	12/10/2018	0.5-2 ft BGS		1489365.30	634501.05	2	X	X	X	X	X	X		X
SO	Background (Floodplain)	SS-204	SS-38443-121018-JC-200	12/10/2018	0.5-2 ft BGS	Duplicate	1489365.30	634501.05	2	X	X	X	X	X	X		X
SO	Background (Floodplain)	SS-205	SS-38443-121018-JC-205	12/10/2018	0-0.5 ft BGS		1489556.68	634557.65	2	X	X	X	X	X	X		X
SO	Background (Floodplain)	SS-205	SS-38443-121018-JC-222	12/10/2018	0.5-2 ft BGS		1489556.68	634557.65	2	X	X	X	X	X	X		X
SO	Background (Floodplain)	SS-206	SS-38443-121018-JC-206	12/10/2018	0-0.5 ft BGS		1489751.43	634622.23	2	X	X	X	X	X	X		X
SO	Background (Floodplain)	SS-206	SS-38443-121018-JC-223	12/10/2018	0.5-2 ft BGS		1489751.43	634622.23	2	X	X	X	X	X	X		X
SO	Background (Floodplain)	SS-207	SS-38443-121018-JC-207	12/10/2018	0-0.5 ft BGS		1489934.31	634700.23	2	X	X	X	X	X	X		X
SO	Background (Floodplain)	SS-207	SS-38443-121018-JC-224	12/10/2018	0.5-2 ft BGS		1489934.31	634700.23	2	X	X	X	X	X	X		X
SO	Background (Floodplain)	SS-208	SS-38443-121018-JC-208	12/10/2018	0-0.5 ft BGS		1490118.06	634777.81	2	X	X	X	X	X	X		X
SO	Background (Floodplain)	SS-208	SS-38443-121018-JC-225	12/10/2018	0.5-2 ft BGS		1490118.06	634777.81	2	X	X	X	X	X	X		X
SO	Background (Floodplain)	SS-208	SS-38443-121018-JC-199	12/10/2018	0.5-2 ft BGS	Duplicate	1490118.06	634777.81	2	X	X	X	X	X	X		X
SO	Background (Ora Everett Park)	SS-209	SS-38443-120718-JC-209	12/7/2018	0.42-2.42 ft BGS		1482746.57	627856.63	2		X	X					
SO	Background (Ora Everett Park)	SS-210	SS-38443-120718-JC-210	12/7/2018	0.33-2.33 ft BGS		1482676.87	627739.51	2		X	X					
SO	Background (Ora Everett Park)	SS-211	SS-38443-120718-JC-211	12/7/2018	0.42-2.42 ft BGS		1482650.51	627556.08	2		X	X					
SO	Background (Ora Everett Park)	SS-212	SS-38443-120718-JC-212	12/7/2018	0.33-2.33 ft BGS		1482738.79	627451.07	2		X	X					
SO	Background (Ora Everett Park)	SS-213	SS-38443-120718-JC-213	12/7/2018	0.42-2.42 ft BGS		1482849.99	627382.65	2		X	X					
SO	Background (Ora Everett Park)	SS-214	SS-38443-120718-JC-214	12/7/2018	0.42-2.42 ft BGS		1482696.37	627324.31	2		X	X					
SO	Background (Ora Everett Park)	SS-215	SS-38443-120718-JC-215	12/7/2018	0.33-2.33 ft BGS		1482590.00	627235.41	2		X	X					
SO	Background (Ora Everett Park)	SS-216	SS-38443-120718-JC-216	12/7/2018	0.42-2.42 ft BGS		1482593.32	627396.08	2		X	X					
SO	Background (Ora Everett Park)	SS-216	SS-38443-120718-JC-217	12/7/2018	0.42-2.42 ft BGS	Duplicate	1482593.32	627396.08	2		X	X					
SO	off-site (DP&L)	BH1-13 DP&L	S-38443-021213-JC-003	2/12/2013	20-22 ft BGS		1486778.82	634370.01	3	X	X	X	X				
SO	off-site (DP&L)	BH2-13 DP&L	S-38443-021113-JC-001	2/11/2013	22-24 ft BGS		1486703.49	634324.29	3	X	X	X	X				
SO	off-site (DP&L)	BH3-13 DP&L	S-38443-021213-JC-005	2/12/2013	12-14 ft BGS		1486768.96	634254.64	3	X	X	X	X				
SO	off-site (DP&L)	BH4-13 DP&L	S-38443-021313-JC-007	2/13/2013	20-22 ft BGS		1486275.97	634332.40	3	X	X	X	X				
SO	off-site (DP&L)	BH5-13 DP&L	S-38443-021313-JC-009	2/13/2013	18-20 ft BGS		1486232.38	634219.80	3	X	X	X	X				
SO	off-site (DP&L)	BH6-13 DP&L	S-38443-021413-JC-011	2/14/2013	22-24 ft BGS		1486132.41	634239.90	3	X	X	X	X				
SO	off-site (DP&L)	BH7-13 DP&L	S-38443-021413-JC-013	2/14/2013	0-2 ft BGS		1486177.50	634168.92	3	X	X	X	X				
SO	off-site (DP&L)	BH8-13 DP&L	S-38443-021513-JC-017	2/15/2013	4-6 ft BGS		1486176.89	634140.86	3	X	X	X	X				
SO	off-site (DP&L)	BH9-13 DP&L	S-38443-021513-JC-015	2/15/2013	4-6 ft BGS		1486207.07	634126.71	3	X	X	X	X				
SO	off-site (DP&L)	BH10-13 DP&L	S-38443-021813-JC-019	2/18/2013	8-10 ft BGS					X	X	X	X				
SO	off-site (DP&L)	BH11-13 DP&L	S-38443-021813-JC-021	2/18/2013	12-14 ft BGS					X	X	X	X				
SO	off-site (DP&L)	BH12-13 DP&L	S-38443-021913-JC-023	2/19/2013	20-22 ft BGS		1485938.75	633959.02	3	X	X	X	X				
SO	off-site (DP&L)	BH13-13 DP&L	S-38443-021913-JC-025	2/19/2013	24-26 ft BGS		1485822.33	633987.54	3	X	X	X	X				
SO	off-site (DP&L)	BH14-13 DP&L	S-38443-022013-JC-027	2/20/2013	24-26 ft BGS		1485850.74	634132.31	3	X	X	X	X				
SO	off-site (DP&L)	BH15-13 DP&L	S-38443-022113-JC-029	2/21/2013	16-18 ft BGS		1485884.56	634276.09	3	X	X	X	X				
SO	off-site (DP&L)	BH16-13 DP&L	S-38443-022213-JC-033	2/22/2013	10-12 ft BGS		1485900.06	634353.46	3	X	X	X	X				
SO	off-site (DP&L)	BH17-13 DP&L	S-38443-022113-JC-031	2/21/2013	12-14 ft BGS		1485924.17	634416.30	3	X	X	X	X				
SO	off-site (DP&L)	BH18-13 DP&L	S-38443-022513-JC-035	2/25/2013	24-26 ft BGS		1485699.22	633343.89	3	X	X	X	X				
SO	off-site (DP&L)	BH19-13 DP&L	S-38443-022513-JC-037	2/25/2013	16-18 ft BGS		1485678.10	633207.42	3	X	X	X	X				
SO	off-site (DP&L)	BH20-13 DP&L	S-38443-022613-JC-039	2/26/2013	16-18 ft BGS					X	X	X	X				
SO	off-site (EU FP)	SS-164	S-38443-080618-JC-122	8/6/2018	0.17-0.67 ft BGS		1485659.74	634959.39	2	X	X	X	X	X	X		X
SO	off-site (EU FP)	SS-164	S-38443-080618-JC-123	8/6/2018	0.67-2.17 ft BGS		1485659.74	634959.39	2	X	X	X	X	X	X		X
SO	off-site (EU FP)	SS-165	S-38443-080618-JC-124	8/6/2018	0.17-0.67 ft BGS		1485345.51	634886.78	2	X	X	X	X	X	X		X
SO	off-site (EU FP)	SS-165	S-38443-080618-JC-125	8/6/2018	0.17-0.67 ft BGS	Duplicate	1485345.51	634886.78	2	X	X	X	X	X	X		X
SO	off-site (EU FP)	SS-165	S-38443-080618-JC-126	8/6/2018	0.67-1.17 ft BGS		1485345.51	634886.78	2	X	X	X	X	X	X		X
SO	off-site (EU FP)	SS-166	S-38443-080718-JC-127	8/7/2018	0.17-0.67 ft BGS		1485164.32	634768.12	2	X	X	X	X	X	X		X
SO	off-site (EU FP)	SS-166	S-38443-080718-JC-128	8/7/2018	0.67-2.17 ft BGS		1485164.32	634768.12	2	X	X	X	X	X	X		X
SO	off-site (EU FP)	SS-167	S-38443-080718-JC-129	8/7/2018	0.17-0.67 ft BGS		1484866.58	634653.44	2	X	X	X	X	X	X		X
SO	off-site (EU FP)	SS-167	S-38443-080718-JC-130	8/7/2018	0.67-2.17 ft BGS		1484866.58	634653.44	2	X	X	X	X	X	X		X
SO	off-site (EU FP)	SS-168	S-38443-080718-JC-131	8/7/2018	0.17-0.67 ft BGS		1484724.56	634523.38	2	X	X	X	X	X	X		X
SO	off-site (EU FP)	SS-168	S-38443-080718-JC-132	8/7/2018	0.67-2.17 ft BGS		1484724.56	634523.38	2	X	X	X	X	X	X		X
SO	off-site (EU FP)	SS-169	S-38443-080718-JC-134	8/7/2018	0.17-0.67 ft BGS		1484547.13	634274.18	2	X	X	X	X	X	X		X
SO	off-site (EU FP)	SS-169	S-38443-080718-JC-135	8/7/2018	0.67-2.17 ft BGS		1484547.13	634274.18	2	X	X	X	X	X	X		X
SO	off-site (EU FP)	SS-170	S-38443-080718-JC-136	8/7/2018	0.17-0.67 ft BGS		1484391.95	634113.16	2	X	X	X	X	X	X		X
SO	off-site (EU FP)	SS-170	S-38443-080718-JC-137	8/7/2018	0.67-2.17 ft BGS		1484391.95	634113.16	2	X	X	X	X	X	X		X
SO	off-site (EU FP)	SS-171	S-38443-080718-JC-138	8/7/2018	0.17-0.67 ft BGS		1484224.14	633953.61	2	X	X	X	X	X	X		X
SO	off-site (EU FP)	SS-171	S-38443-080718-JC-139	8/7/2018	0.67-2.17 ft BGS		1484224.14	633953.61	2	X	X	X	X	X	X		X
SO	off-site (EU FP)	SS-172	S-38443-080718-JC-141	8/7/2018	0.17-0.67 ft BGS		1483964.58	633701.76	2	X	X	X	X	X	X		X
SO	off-site (EU FP)	SS-172	S-38443-080718-JC-142	8/7/2018	0.67-2.17 ft BGS		1483964.58	633701.76	2	X	X	X	X	X	X		X
SO	off-site (EU FP)	SS-173	S-38443-080818-JC-143	8/8/2018	0.17-0.67 ft BGS		1483853.71	633532.50	2	X	X	X	X	X	X		X
SO	off-site (EU FP)	SS-173	S-38443-080818-JC-144	8/8/2018	0.67-2.17 ft BGS		1483853.71	633532.50	2	X	X	X	X	X	X		X
SO	off-site (EU FP)	SS-174	S-38443-080818-JC-145	8/8/2018	0.17-0.67 ft BGS		1483585.83	633245.82	2	X	X	X	X	X	X		X
SO	off-site (EU FP)	SS-174	S-38443-080818-JC-146	8/8/2018	0.67-2.17 ft BGS		1483585.83	633245.82	2	X	X	X	X	X	X		X
SO	off-site (EU FP)	SS-174	S-38443-080818-JC-147	8/8/2018	0.67-2.17 ft BGS	Duplicate	1483585.83	633245.82	2	X	X	X	X	X	X		X
SO	off-site (EU FP)	SS-175	S-38443-080818-JC-148	8/8/2018	0.17-0.67 ft BGS		1483369.50	632955.78	2	X	X	X	X	X	X		X
SO	off-site (EU FP)	SS-175	S-38443-080818-JC-149	8/8/2018	0.67-2.17 ft BGS		1483369.50	632955.78	2	X	X	X	X	X	X		X
SO	off-site (EU00)	GP34-18	SO-38443-073118-JC-120	7/31/2018	10-11 ft bgs				TBD	X						X	
SO	off-site (EU00)	GP35-19	S-38443-011519-JC-153	1/15/2019	10-11 ft BGS				TBD	X						X	X
SO	off-site (EU00)	S10(EPA)	S10	10/23/1990	0-1 ft BGS				N/A	X	X	X	X				
SO	off-site (EU00)	S07(OEPA)	96-DV-03-S07	7/9/1996	0-0.2 ft BGS		1483341.169	632345.512	3	X	X	X	X	X			

Notes:

1 Professionally Surveyed
2 Surveyed by Handheld GPS
3 Approximated
N/A Not Available

Memorandum

January 16, 2018

To:	Julian Hayward	Ref. No.:	038443-360
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Subject: **Analytical Results and Full Validation**
Test Pit Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-November 2017

1. Introduction

This document details a validation of analytical results for soil samples collected in support of the Test Pit Soil Sampling Program at the Moraine, Ohio site during October-November 2017. Samples were submitted to TestAmerica Laboratories, Inc. (TA) located in North Canton, Ohio. A sample collection and analysis summary is presented in Table 1. The validated analytical results are summarized in Table 2. A summary of the analytical methodology is presented in Table 3.

Full Contract Laboratory Program (CLP) equivalent raw data deliverables were provided by the laboratory. Evaluation of the data was based on information obtained from the finished data sheets, raw data, chain of custody forms, calibration data, blank data, duplicate data, recovery data from surrogate spikes/laboratory control samples (LCS)/matrix spike (MS) samples and field quality assurance/quality (QA/QC) samples. The assessment of analytical and in-house data included checks for data consistency (by observing comparability of duplicate analyses), adherence to accuracy and precision criteria, and transmittal errors.

The QA/QC criteria by which these data have been assessed are outlined in the analytical methods referenced in Table 3 and applicable guidance from the documents entitled:

i) "Remedial Investigation/Feasibility Study (RI/FS) Work Plan for Operable Units 1 and 2, Appendix E – Quality Assurance Project Plan", September 20, 2017

ii) "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review", USEPA 540-R-10-011, January 2010

iii) "USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review", USEPA 540-R-08-01, June 2008

iv) "National Functional Guidelines for High Resolution Superfund Methods Data Review", United States Environmental Protection Agency (USEPA) 542-B-16-001, April 2016.

Items ii), iii), and iv) will subsequently be referred to as the "Guidelines" in this Memorandum.

2. Sample Holding Time and Preservation

The sample holding time criteria for the analyses are summarized in Table 3. Sample chain of custody documents and analytical reports were used to determine sample holding times. All samples were prepared and analyzed within the required holding times.

All samples were properly preserved, delivered on ice, and stored by the laboratory at the required temperature (0-6°C).

3. Gas Chromatography/Mass Spectrometer (GC/MS) – Tuning and Mass Calibration (Instrument Performance Check) and Inductively Coupled Plasma/Mass Spectrometer (ICP/MS)

3.1 Organic Analyses

Prior to volatile organic compound (VOC) and semi-volatile organic compound (SVOC) analysis, GC/MS instrumentation is tuned to ensure optimization over the mass range of interest. To evaluate instrument tuning, methods require the analysis of specific tuning compounds bromofluorobenzene (BFB) and decafluorotriphenylphosphine (DFTPP), respectively. The resulting spectra must meet the criteria cited in the methods before analysis is initiated. Analysis of the tuning compound must then be repeated every 12 hours throughout sample analysis to ensure the continued optimization of the instrument.

Tuning compounds were analyzed at the required frequency throughout VOC and SVOC analysis periods. All tuning criteria were met indicating that proper optimization of the instrumentation was achieved.

3.2 High Resolution GC/MS Analyses

GC/MS system performance checks are performed to ensure mass resolution, identification, and calibration. The following criteria must be met before sample analysis can begin:

i) For the PFK (perfluorokerosene) molecular leak, the resolution must be greater than or equal to 10,000. The deviation between the exact mass and the theoretical mass for each of the three to five ions monitored must be less than 5 parts per million (ppm).

ii) The Window Defining Mix (WDM) should be analyzed after the PFK, prior to calibration and every 12 hours during sample analysis.

iii) The Isomer Specificity Check standard should be analyzed after the WMD, prior to calibration and every 12 hours during sample analysis.

All GC/MS performance checks were performed and all criteria were met.

3.3 Inorganic Analyses

To ensure adequate mass resolution, identification, and to some degree, sensitivity, the performance of each ICP/MS instrument used for metals analyses is checked prior to calibration and initiating an analysis sequence through the analysis of a tuning solution.

Instrument performance check data were reviewed. The tuning solution was analyzed at the required frequency throughout the analyses. The results of all instrument performance checks were within the method acceptance criteria, indicating that proper optimization of the instrumentation was achieved.

4. Initial Calibration - Organic Analyses

4.1 GC/MS

To quantify VOCs and SVOCs of interest in samples, calibration of the GC/MS over a specific concentration range must be performed. Initially, a five-point calibration curve containing all compounds of interest is analyzed to characterize instrument response for each analyte over a specific concentration range. Linearity of the calibration curve and instrument sensitivity are evaluated against the following criteria:

i) All relative response factors (RRFs) must be greater than or equal to 0.050 (greater than or equal to 0.010 for compounds that exhibit poor response)

ii) The percent relative standard deviation (%RSD) values must not exceed 20.0 percent (40.0 percent for compounds that exhibit poor response) or a minimum correlation coefficient (R) and minimum coefficient of determination (R^2) of 0.995 and 0.99, respectively, if linear and quadratic equation calibration curves are used

The initial calibration data for VOCs and SVOCs were reviewed. All compounds met the above criteria for sensitivity and linearity.

4.2 High Resolution GC/MS

To quantify dioxins/furans of interest, calibration of the GC/MS over a specific concentration range must be performed. Initially, a five-point calibration curve containing all compounds required by the method is analyzed to characterize instrument response for each analyte over a specific concentration range. Linearity and sensitivity of the calibration curve are evaluated against the following criteria:

i) The percent relative standard deviation (%RSD) for the relative response (RR) of congeners calibrated by isotope dilution must not exceed 20.0 percent or a minimum correlation coefficient (R) of 0.99 if linear calibration curves are used

ii) The percent relative standard deviation (%RSD) for the relative response factor (RRF) of congeners calibrated by internal standard must not exceed 35.0 percent or a minimum correlation coefficient (R) of 0.99 if linear calibration curves are used

iii) The signal to noise ratio (S/N) must be ≥ 10 percent for all analytes and the ion abundance ratios must be within the method required window

The initial calibration data were reviewed. All compounds met the above criteria for linearity and sensitivity.

4.3 GC

To quantify pesticides, the performance evaluation mixture (PEM) is analyzed at the beginning and end of the initial calibration sequence and throughout the analytical sequence. The results of these analyses are used to evaluate dichlorodiphenyltrichloroethane (DDT)/endrin breakdown, using the method degradation criteria of <15 percent. PEM standards were analyzed at the required frequency throughout sample analysis and all method performance criteria were met.

4.2.1 Internal Standard Calibration – PCBs and Organochlorine Pesticides

In order to quantify organic compounds of interest by GC, calibration of the gas chromatograph over a specific concentration range must be performed. Polychlorinated biphenyls (PCBs) and organochlorine pesticides were calibrated with a dual column analysis using internal standardization. Five peaks, representing five congeners, were used for the analysis of each Aroclor with a separate curve fitted to the calibration data for each congener. A calibration curve consisting of a minimum of five concentration levels was analyzed for all single component compounds of interest. Linearity of the calibration curves are evaluated against the following criteria:

i) The percent relative standard deviation (%RSD) values must not exceed 20.0 percent

ii) A minimum correlation coefficient (R) and minimum coefficient of determination (R^2) of 0.995 and 0.99, respectively, if linear and quadratic equation calibration curves are used

Retention time windows are also calculated from the initial calibration analyses. These windows are then used to identify all compounds of interest in subsequent analyses.

All initial calibration standards were analyzed at the required frequencies. All retention time, peak resolution, and linearity criteria were satisfied as specified in the method.

5. Initial Calibration – Inorganic Analyses

Initial calibration of the instruments ensures that they are capable of producing satisfactory quantitative data at the beginning of a series of analyses. For ICP/MS analysis, a calibration blank and at least one standard must be analyzed at each wavelength to establish the analytical curve. For mercury atomic absorption (AA) analyses, a calibration blank and a minimum of five standards must be analyzed to establish the analytical curve, and resulting correlation coefficients (R) must be 0.995 or greater. For instrumental general chemistry analyses, a calibration blank and a minimum of five standards must be analyzed to establish the analytical curve, and resulting correlation coefficients (R) must be 0.995 or greater.

After the analyses of the calibration curves, an initial calibration verification (ICV) standard must be analyzed to verify the analytical accuracy of the calibration curves. All analyte recoveries from the analyses of the ICVs must be within the following control limits:

Analytical Method	Parameter	Control Limits
ICP/MS	Metals	90 - 110%
Cold Vapor AA	Mercury	80 - 120%
Instrumental Wet Chemistry	Cyanide	85 - 115%

Upon review of the data, it was determined that the calibration curves and ICVs were analyzed at the proper frequencies and that all of the above-specified criteria were met. The laboratory effectively demonstrated that the instrumentation used for metals and general chemistry analyses were properly calibrated prior to sample analysis.

6. Continuing Calibration - Organic Analyses

6.1 GC/MS

To ensure that instrument calibration for VOC and SVOC analyses is acceptable throughout the sample analysis period, continuing calibration standards must be analyzed and compared to the initial calibration curve every 12 hours.

The following criteria were employed to evaluate continuing calibration data:

i) All RRF values must be greater than or equal to 0.050 (greater than or equal to 0.010 for compounds that exhibit poor response)

ii) Percent difference (%D) values must not exceed 25.0 percent (40.0 percent for compounds that exhibit poor response)

Calibration standards were analyzed at the required frequency, and the results met the above criteria for instrument sensitivity and stability with the exception of the sample results presented with qualifiers in Table 4.

6.2 High Resolution GC/MS

To ensure that instrument calibration is acceptable throughout the sample analysis period, continuing calibration standards must be analyzed and compared to the initial calibration curve every 12 hours.

The following criteria were employed to evaluate continuing calibration data:

i) The percent difference (%D) for the relative response (RR) of congeners calibrated by isotope dilution must not exceed 25.0 percent

ii) The percent difference (%D) for the relative response factor (RRF) of congeners calibrated by internal standard must be within the method required windows

iii) The signal to noise ratio (S/N) must be ≥ 10 percent for all analytes and the ion abundance ratios must be within the method required window

Calibration standards were analyzed at the required frequency, and the results met the above criteria for instrument sensitivity and stability

6.3 GC

To ensure that the calibration of the instrument for organic analyses by GC is valid throughout the sample analysis period, continuing calibration standards are analyzed and evaluated on a regular basis. To evaluate the continued linearity of the calibration, %D values are calculated for each compound. As specified in the methods, all %D values should not exceed 15 percent. To ensure that compound retention times do not vary over the analysis period, all retention times for continuing calibration compounds must fall within the established retention time windows.

All continuing calibration standards were analyzed at the required frequency. All %D values and compound retention times met the above criteria indicating acceptable instrument calibration throughout the analysis period with the exception of the results presented with qualifiers in Table 4.

7. Continuing Calibration - Inorganic Analyses

To ensure that instrument calibration is acceptable throughout the sample analysis period, continuing calibration verification (CCV) standards are analyzed on a regular basis. Each CCV is deemed acceptable if all analyte recoveries are within the control limits specified above for the ICVs. If some of the CCV analyte recoveries are outside the control limits, samples analyzed before and after the CCV, up until the previous and proceeding CCV analyses, are affected.

For this study, CCVs were analyzed at the proper frequency. All analyte recoveries reported for the CCVs were within the specified limits.

8. Laboratory Blank Analyses

Method blanks are prepared from a purified matrix and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the analytical procedures. Additionally, initial and continuing calibration blanks (ICBs/CCBs) are routinely analyzed after each ICV/CCV for the inorganic parameters.

For this study, laboratory method blanks were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

8.1 Organic Analyses

Most method blank results were non-detect. Table 5 presents the sample results that were qualified as non-detect due to analyte concentrations in the method blanks.

8.2 Inorganic Analyses

Upon review of the ICBs, CCBs, and method blanks, it was noted that metal concentrations were observed above the method detection limit (MDL). Most investigative samples associated with the low-level detections reported either non-detect concentrations or concentrations significantly greater than the associated laboratory blank concentrations for the analytes of interest. These sample results were not impacted by the

contamination detected. Associated positive sample results with similar concentrations to the levels reported in the blanks were qualified as non-detect (see Table 5).

9. Surrogate Spike Recoveries

In accordance with the methods employed, all samples, blanks, and QC samples analyzed for organics are spiked with surrogate compounds prior to sample extraction and/or analysis. Surrogate recoveries provide a means to evaluate the effects of laboratory performance on individual sample matrices.

All samples submitted for organic determinations were spiked with the appropriate number of surrogate compounds prior to sample extraction and/or analysis.

Each individual surrogate compound is expected to meet the laboratory control limits with the exception of SVOC analyses. According to the "Guidelines" for SVOC analyses, up to one outlying surrogate in the base/neutral or acid fractions is acceptable as long as the recovery is at least 10 percent.

Surrogate recoveries were assessed against laboratory control limits. Due to dilutions equal to or greater than 5 times that were necessary to successfully analyze the samples, numerous surrogate recoveries in investigative samples analyzed for pesticides, PCBs, and SVOCs were not assessed. Most remaining surrogate recoveries were within the laboratory criteria. Where surrogate recoveries were above the control limits, non-detect sample results were not impacted by the implied high bias and were not qualified. Table 6 presents the sample results that were qualified due to outlying surrogate recoveries.

10. Spiked C-13 Labeled PCDD/PCDF

In accordance with the method employed, all samples, blanks, and QC samples analyzed for PCDD/PCDF are spiked with labeled congeners prior to extraction to be an internal standard for the quantitation of native congeners, and to serve as surrogates for the assessment of method performance in the sample matrix.

All samples submitted for PCDD/PCDF determinations were spiked with the appropriate number of labeled compounds prior to sample extraction analysis.

Labeled congener recoveries were assessed against method control limits. All recoveries met the method criteria.

11. Internal Standards (IS) Analyses

IS data were evaluated for all VOC, SVOC, PCB, Pesticide, and ICP/MS metals sample analyses.

11.1 Organics Analyses

To ensure that changes in the GC/MS and GC sensitivity and response do not affect sample analysis results IS compounds are added to each sample prior to analysis. All results are then calculated as a ratio of the IS responses.

The sample IS results were evaluated against the following criteria:

i) The retention time of the IS must not vary more than ±30 seconds from the associated calibration standard

ii) IS area counts must not vary by more than a factor of two (-50 percent to +100 percent) from the associated calibration standard

Most organic IS recoveries and retention times met the above criteria. Table 7 presents the sample results that were qualified or rejected due to outlying IS recoveries.

11.2 Inorganic Analyses

IS elements were added to all samples prior to metals analysis by ICP/MS. Overall instrument stability and performance for metals analyses were monitored using the IS intensity data. IS recoveries were assessed using control limits of 60-125 percent.

Most inorganic IS recoveries were within the acceptance limits. Table 7 presents the sample results that were qualified as estimated due to outlying IS recoveries.

12. Cleanup Standard Recoveries-High Resolution GC/MS-PCDD/PCDF

Two C-13 labeled cleanup standards are added to all samples, blanks, and blank spike samples subsequent to extraction, but prior to the cleanup procedures to assess the efficiency of the cleanup procedures.

Cleanup standards were added to all samples and blanks prior to cleanup. All recoveries were within the method acceptable ranges.

13. Laboratory Control Sample Analyses

LCS or LCS/laboratory control sample duplicates (LCSD) are prepared and analyzed as samples to assess the analytical efficiencies of the methods employed, independent of sample matrix effects. The relative percent difference (RPD) of the LCS/LCSD recoveries is used to evaluate analytical precision.

For this study, LCS or LCS/LCSD were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

13.1 Organic Analyses

The LCS or LCS/LCSD contained all compounds of interest or the compounds specified in the method. All LCS recoveries and RPDs were within the laboratory control limits demonstrating acceptable analytical accuracy and precision.

13.2 Inorganic Analyses

The LCS or LCS/LCSD contained all analytes of interest. LCS recoveries were assessed per the "Guidelines". All LCS recoveries and RPDs were within the control limits demonstrating acceptable analytical accuracy and precision.

14. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analyses

To evaluate the effects of sample matrices on the preparation process, measurement procedures, and accuracy of a particular analysis, samples are spiked with a known concentration of the analyte of concern and analyzed as MS/MSD samples. The RPD between the MS and MSD is used to assess analytical precision.

If the original sample concentration is significantly greater than the spike concentration, the recovery is not assessed.

If only the MS or MSD recovery was outside of control limits, no qualification of the data was performed based on the acceptable recovery of the companion spike and the acceptable RPD.

Due to dilutions that were necessary to successfully analyze the samples, some MS/MSD recoveries were not assessed.

MS/MSD analyses were performed as specified in Table 1.

14.1 Organic Analyses

The MS/MSD samples were spiked with all compounds of interest or the compounds specified in the method. All percent recoveries and RPD values were within the laboratory control limits demonstrating acceptable analytical accuracy and precision with the exception of the dioxin/furan sample results presented with qualifiers in Table 8.

14.2 Inorganic Analyses

The MS or MS/MSD samples were spiked with the analytes of interest, and the results were evaluated using the "Guidelines". All percent recoveries and RPD values, if applicable, were within the control limits, demonstrating acceptable analytical accuracy and precision with the exception of the sample results presented with qualifiers in Table 8.

15. Duplicate Sample Analyses – Inorganic Analyses

Analytical precision is evaluated based on the analysis of laboratory duplicate samples. For this study, duplicate samples were prepared and analyzed by the laboratory as specified in Table 1. The duplicate results were evaluated per the "Guidelines".

All duplicate analyses performed were acceptable, demonstrating acceptable analytical precision.

16. ICP/MS Serial Dilution

The serial dilution determines whether significant physical or chemical interferences exist due to sample matrix. A minimum of 1 per 20 investigative samples or at least 1 per analytical batch must be analyzed at a five-fold dilution. For samples with sufficient analyte concentrations (>50 times the method detection limit), the serial dilution results must agree within 10 percent of the original results.

A serial dilution was performed on each MS/MSD sample. All results met the criteria above.

17. ICP Interference Check Sample Analysis (ICS)

To verify that the laboratory has established proper inter-element and background correction factors, ICSs are analyzed. These samples contain high concentrations of aluminum, calcium, magnesium, and iron and are analyzed at the beginning and end of each sample analysis period. The ICSs are evaluated against recovery control limits in the "Guidelines" of 80 to 120 percent.

ICS analysis results were evaluated for all samples using the criteria in the "Guidelines". All ICS recoveries and results were acceptable.

18. Field QA/QC Samples

The field QA/QC consisted of three field duplicate sample sets.

18.1 Field Duplicate Sample Analysis

To assess the analytical and sampling protocol precision, three field duplicate sample sets were collected and submitted "blind" to the laboratory, as specified in Table 1. The RPDs associated with these duplicate samples must be less than 100 percent for soil samples. If the reported concentration in either the investigative sample or its duplicate is less than five times the reporting limit (RL), the evaluation criterion is two times the RL value for water samples.

Most field duplicate results were within acceptable agreement demonstrating acceptable sampling and analytical precision. Table 9 presents the sample results that were qualified due to variability in the field duplicate results.

19. Analyte Reporting

The laboratory reported detected results down to the laboratory's method detection limit (MDL) for each analyte adjusted for specific sample dilutions, weights, and volumes. Positive analyte detections less than the RL but greater than the sample-specific MDL were qualified as estimated (J) in Table 2 unless qualified otherwise in this memorandum. Non-detect results were presented as non-detect at the sample specific MDL in Table 2.

All soil results were reported on a dry weight basis.

20. Target Compound Identification

To minimize erroneous compound identification during organic analyses, qualitative criteria including compound retention time and mass spectra (if applicable) were evaluated according to the identification criteria established by the methods. The samples identified in Table 1 were reviewed. The organic compounds reported adhered to the specified identification criteria.

Pesticide and PCB analyses were performed using dual column analyses. In general, the results showed good correlation between the two columns (<40 RPD). Variability was observed between some of the results. The associated data were qualified in Table 10 as estimated (J) or tentatively identified and estimated (NJ) where RPD > 100 to reflect the indicated variability.

Table 11 presents the qualified samples results for dioxin/furans due to outlying identification criteria.

21. Conclusion

Based on the assessment detailed in the foregoing, the data summarized in Table 2 are acceptable with the specific exceptions and qualifications noted herein.

Table 1

Sample Collection and Analysis Summary
Test Pit Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-November 2017

Sample Identification	Location	Start Depth (ft bgs)	End Depth (ft bgs)	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters								Comments
							VOCs	SVOCs	Pesticides	PCBs	Dioxins & Furans	Select Metals	Mercury	Cyanide	
S-38443-103017-BW-001	Surificial soil SS-35	0	2	Soil	10/30/2017	14:00	X	X	X	X		X	X	X	
S-38443-103017-BW-002	TP-15	10	12	Soil	10/30/2017	14:40	X	X	X	X	X	X	X	X	
S-38443-103117-BW-003	Surficial soil SS-29	0	2	Soil	10/31/2017	09:00	X	X	X	X		X	X	X	MS/MSD
S-38443-103117-BW-004	TP-14	8	10	Soil	10/31/2017	09:55	X	X	X	X	X	X	X	X	
S-38443-103117-BW-005	Surificial soil SS-20	0	2	Soil	10/31/2017	12:00	X	X	X	X		X	X	X	MS
S-38443-103117-BW-006	TP-11	8	10	Soil	10/31/2017	12:50	X	X	X	X	X	X	X	X	DUP
S-38443-103117-BW-007	Surficial soil SS-36	0	2	Soil	10/31/2017	14:30	X	X	X	X		X	X	X	
S-38443-103117-BW-008	TP-16	4	6	Soil	10/31/2017	15:00	X	X	X	X	X	X	X	X	
S-38443-110117-BW-009	TP-12	8	10	Soil	11/01/2017	08:50	X	X	X	X	X	X	X	X	MS/MSD
S-38443-110117-BW-010	TP-12	8	10	Soil	11/01/2017	09:00	X	X	X	X	X	X	X	X	FD(S-38443-103117-BW-009)
S-38443-110117-BW-011	Surficil Soil SS-25	0	2	Soil	11/01/2017	11:00	X	X	X	X		X	X	X	
S-38443-110117-BW-012	TP-13	8	10	Soil	11/01/2017	11:33	X	X	X	X	X	X	X	X	MS
S-38443-110117-BW-013	Surficial Soil SS-39	0	2	Soil	11/01/2017	15:08	X	X	X	X		X	X	X	MS/MSD
S-38443-110117-BW-014	Surficial Soil SS-39	0	2	Soil	11/01/2017	15:15	X	X	X	X		X	X	X	FD(S-38443-103117-BW-013); MS/MSD
S-38443-110217-BW-015	Surficial Soil SS-86	0	2	Soil	11/02/2017	08:30	X	X	X	X		X	X	X	DUP
S-38443-110217-BW-016	TP-17	8	10	Soil	11/02/2017	09:00	X	X	X	X	X	X	X	X	
S-38443-110217-BW-017	Surficial Soil SS-31	0	2	Soil	11/02/2017	11:20	X	X	X	X		X	X	X	
S-38443-110217-BW-018	TT-39	8	10	Soil	11/02/2017	11:50	X	X	X	X	X	X	X	X	
S-38443-110217-BW-019	Surficial Soil SS-30	0	2	Soil	11/02/2017	14:35	X	X	X	X		X	X	X	MS
S-38443-110317-BW-020	TT-33	12	14	Soil	11/03/2017	09:55	X	X	X	X	X	X	X	X	MS/MSD/DUP
S-38443-110317-BW-021	Surficial Soil SS-58	0	2	Soil	11/03/2017	10:50	X	X	X	X		X	X	X	
S-38443-110317-BW-022	TT-40	6	8	Soil	11/03/2017	12:00	X	X	X	X	X	X	X	X	
S-38443-110617-BW-023	TT-37	8	10	Soil	11/06/2017	09:10	X	X	X	X	X	X	X	X	DUP
S-38443-110617-BW-024	TT-36	2	4	Soil	11/06/2017	12:30	X	X	X	X	X	X	X	X	MS
S-38443-110617-BW-025	TT-35	12	14	Soil	11/06/2017	15:02	X	X	X	X	X	X	X	X	
S-38443-110717-BW-026	Surficial Soil SS-24	0	2	Soil	11/07/2017	08:45	X	X	X	X		X	X	X	
S-38443-110717-BW-027	TT-34	8	10	Soil	11/07/2017	08:50	X	X	X	X	X	X	X	X	
S-38443-110717-BW-028	TT-31	14	15	Soil	11/07/2017	11:25	X	X	X	X	X	X	X	X	

Table 1

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Sample Identification	Location	Start Depth (ft bgs)	End Depth (ft bgs)	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters								Comments
							VOCs	SVOCs	Pesticides	PCBs	Dioxins & Furans	Select Metals	Mercury	Cyanide	
S-38443-110717-BW-029	Surficial Soil SS-22	0	2	Soil	11/07/2017	14:00	X	X	X	X		X	X	X	
S-38443-110717-BW-030	TT-32	12	14	Soil	11/07/2017	14:10	X	X	X	X	X	X	X	X	MS
S-38443-110817-BW-031	Surficial Soil SS132	0	2	Soil	11/08/2017	09:00	X	X	X	X		X	X	X	MS/MSD
S-38443-110817-BW-032	Surficial Soil SS132	0	2	Soil	11/08/2017	09:15	X	X	X	X		X	X	X	
S-38443-110817-BW-033	TT-43	6	8	Soil	11/08/2017	09:30	X	X	X	X	X	X	X	X	
S-38443-110917-BW-034	Surficial Soil SS-3	0	2	Soil	11/09/2017	10:25	X	X	X	X		X	X	X	
S-38443-110917-BW-035	Surficial Soil SS-3	0	2	Soil	11/09/2017	10:35	X	X	X	X		X	X	X	FD(S-38443-100617-BW-034); MS
S-38443-110917-BW-036	TP-10	4	6	Soil	11/09/2017	10:45	X	X	X	X	X	X	X	X	
S-38443-110917-BW-037	Surficial Soil SS-2	0	2	Soil	11/09/2017	12:30	X	X	X	X		X	X	X	
S-38443-110917-BW-038	TP-9	2	4	Soil	11/09/2017	12:40	X	X	X	X	X	X	X	X	
S-38443-110917-BW-039	Surficial Soil SS-1	0	2	Soil	11/09/2017	14:20	X	X	X	X		X	X	X	
S-38443-110917-BW-040	TP-8	14	15	Soil	11/09/2017	14:30	X	X	X	X	X	X	X	X	MS/MSD/DUP

Notes:

-	- Not applicable
DUP	- Laboratory Duplicate
FD	- Field Duplicate sample of sample in parentheses
ft bgs	- Feet below ground surface
MS/MSD	- Matrix Spike/Matrix Spike Duplicate
PCBs	- Polychlorinated Biphenyls
SVOCs	- Semi-volatile Organic Compounds
VOCs	- Volatile Organic Compounds

Table 2

Analytical Results Summary
Test Pit Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-November 2017

	Sample Location:	**SS-1**	**SS-2**	**SS-3**	**SS-3**	**SS-20**
	Sample ID:	**S-38443-110917-BW-039**	**S-38443-110917-BW-037**	**S-38443-110917-BW-034**	**S-38443-110917-BW-035**	**S-38443-103117-BW-005**
	Sample Date:	**11/9/2017**	**11/9/2017**	**11/9/2017**	**11/9/2017**	**10/31/2017**
	Sample Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
					Duplicate	
Parameters	**Units**					
Volatiles						
1,1,1-Trichloroethane	µg/kg	0.29 U	0.50 U	0.36 U	0.35 U	2.7 J
1,1,2,2-Tetrachloroethane	µg/kg	0.33 U	R	0.41 UJ	0.40 UJ	R
1,1,2-Trichloroethane	µg/kg	0.49 U	0.85 U	0.62 U	0.60 U	R
1,1-Dichloroethane	µg/kg	0.42 U	0.72 U	0.52 U	0.51 U	R
1,1-Dichloroethene	µg/kg	0.68 U	1.2 U	0.86 U	0.83 U	R
1,2,4-Trichlorobenzene	µg/kg	0.30 U	R	0.38 U	0.37 U	R
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	0.86 U	R	1.1 U	1.0 U	R
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	0.44 U	0.76 U	0.55 U	0.54 U	R
1,2-Dichlorobenzene	µg/kg	0.28 U	R	0.35 U	0.34 U	R
1,2-Dichloroethane	µg/kg	0.37 U	0.63 U	0.46 U	0.45 U	R
1,2-Dichloropropane	µg/kg	0.39 U	0.67 U	0.49 U	0.48 U	R
1,3-Dichlorobenzene	µg/kg	0.37 U	R	0.46 U	0.45 U	R
1,4-Dichlorobenzene	µg/kg	0.44 U	R	0.55 U	0.54 U	R
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	1.6 U	2.8 U	2.0 U	2.0 U	R
2-Hexanone	µg/kg	0.73 U	1.3 U	0.92 U	0.89 U	R
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	1.1 U	1.9 U	1.4 U	1.4 U	R
Acetone	µg/kg	11 U	13 U	18 U	18 U	R
Benzene	µg/kg	0.40 U	0.70 U	0.51 U	0.49 U	R
Bromodichloromethane	µg/kg	0.42 U	0.72 U	0.52 U	0.51 U	R
Bromoform	µg/kg	0.50 U	0.87 U	0.63 U	0.62 U	R
Bromomethane (Methyl bromide)	µg/kg	0.74 U	1.3 U	0.94 UJ	0.91 UJ	R
Carbon disulfide	µg/kg	0.26 U	0.46 U	0.33 U	0.32 U	4.1 J
Carbon tetrachloride	µg/kg	0.32 U	0.54 U	0.40 U	0.39 U	R
Chlorobenzene	µg/kg	0.42 U	0.72 U	0.52 U	0.51 U	R
Chloroethane	µg/kg	0.48 U	0.83 U	0.60 U	0.59 U	R
Chloroform (Trichloromethane)	µg/kg	0.29 U	0.50 U	0.36 U	0.35 U	R
Chloromethane (Methyl chloride)	µg/kg	0.48 U	0.83 U	0.60 U	0.59 U	R
cis-1,2-Dichloroethene	µg/kg	0.35 U	0.61 U	0.44 U	0.43 U	R
cis-1,3-Dichloropropene	µg/kg	0.33 U	0.56 U	0.41 U	0.40 U	R
Cyclohexane	µg/kg	0.26 U	0.46 U	0.33 U	0.32 U	R
Dibromochloromethane	µg/kg	0.38 U	0.65 U	0.48 U	0.46 U	R
Dichlorodifluoromethane (CFC-12)	µg/kg	0.44 U	0.76 U	0.55 U	0.54 U	R
Ethylbenzene	µg/kg	0.34 U	0.59 U	0.43 U	0.42 U	R
Isopropyl benzene	µg/kg	0.25 U	0.43 U	0.32 U	0.31 U	R
Methyl acetate	µg/kg	1.5 U	2.5 U	1.9 U	1.8 U	R
Methyl cyclohexane	µg/kg	0.29 U	0.50 U	0.36 U	0.35 U	R
Methyl tert butyl ether (MTBE)	µg/kg	0.34 U	0.59 U	0.43 U	0.42 U	R

Table 2

Analytical Results Summary
Test Pit Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-November 2017

	Sample Location:	**SS-1**	**SS-2**	**SS-3**	**SS-3**	**SS-20**
	Sample ID:	**S-38443-110917-BW-039**	**S-38443-110917-BW-037**	**S-38443-110917-BW-034**	**S-38443-110917-BW-035**	**S-38443-103117-BW-005**
	Sample Date:	**11/9/2017**	**11/9/2017**	**11/9/2017**	**11/9/2017**	**10/31/2017**
	Sample Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
					Duplicate	
Parameters	**Units**					
Volatiles						
Methylene chloride	µg/kg	1.7 U	4.4 U	2.0 U	2.0 U	4.1 J
Styrene	µg/kg	0.34 U	0.59 U	0.43 U	0.42 U	R
Tetrachloroethene	µg/kg	0.47 U	0.80 U	0.59 U	0.57 U	260 J
Toluene	µg/kg	0.43 U	0.74 U	0.54 U	0.52 U	1.3 J
trans-1,2-Dichloroethene	µg/kg	0.48 U	0.83 U	0.60 U	0.59 U	R
trans-1,3-Dichloropropene	µg/kg	0.26 U	0.46 U	0.33 U	0.32 U	R
Trichloroethene	µg/kg	0.52 U	0.89 U	0.65 U	0.63 U	3.6 J
Trichlorofluoromethane (CFC-11)	µg/kg	0.30 U	0.52 U	0.38 U	0.37 U	R
Trifluorotrichloroethane (CFC-113)	µg/kg	0.62 U	1.1 U	0.78 U	0.76 U	R
Vinyl chloride	µg/kg	0.35 U	0.61 U	0.44 U	0.43 U	R
Xylenes (total)	µg/kg	0.50 U	0.87 U	0.63 U	0.62 U	R
Semi-Volatiles						
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	11 U	13 U	12 U	80 U	28 U
2,4,5-Trichlorophenol	µg/kg	28 U	34 U	31 U	210 U	73 UJ
2,4,6-Trichlorophenol	µg/kg	9.9 U	12 U	11 U	75 U	26 UJ
2,4-Dichlorophenol	µg/kg	22 U	27 U	25 U	170 U	59 UJ
2,4-Dimethylphenol	µg/kg	22 U	27 U	25 U	170 U	59 UJ
2,4-Dinitrophenol	µg/kg	23 U	29 U	26 U	180 U	62 UJ
2,4-Dinitrotoluene	µg/kg	19 U	23 U	21 U	140 U	50 U
2,6-Dinitrotoluene	µg/kg	23 U	29 U	26 U	180 U	62 U
2-Chloronaphthalene	µg/kg	0.50 U	0.61 U	0.56 U	3.8 U	1.3 U
2-Chlorophenol	µg/kg	9.1 U	11 U	10 U	69 U	24 UJ
2-Methylnaphthalene	µg/kg	27	30	63	75	800
2-Methylphenol	µg/kg	12 U	15 U	14 U	93 U	32 UJ
2-Nitroaniline	µg/kg	10 U	12 U	11 U	77 U	27 U
2-Nitrophenol	µg/kg	9.2 U	11 U	10 U	70 U	24 UJ
3&4-Methylphenol	µg/kg	22 U	27 U	25 U	170 U	59 UJ
3,3'-Dichlorobenzidine	µg/kg	20 U	25 U	22 U	150 U	53 U
3-Nitroaniline	µg/kg	18 U	22 U	20 U	130 U	47 U
4,6-Dinitro-2-methylphenol	µg/kg	10 U	13 U	11 U	78 U	27 UJ
4-Bromophenyl phenyl ether	µg/kg	14 U	18 U	16 U	110 U	38 U
4-Chloro-3-methylphenol	µg/kg	23 U	29 U	26 U	180 U	62 UJ
4-Chloroaniline	µg/kg	19 U	23 U	21 U	140 U	50 U
4-Chlorophenyl phenyl ether	µg/kg	14 U	18 U	16 U	110 U	38 U
4-Nitroaniline	µg/kg	29 U	35 U	32 U	220 U	76 U
4-Nitrophenol	µg/kg	19 U	23 U	21 U	140 U	50 UJ

Table 2

Analytical Results Summary
Test Pit Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-November 2017

	Sample Location:	**SS-1**	**SS-2**	**SS-3**	**SS-3**	**SS-20**
	Sample ID:	**S-38443-110917-BW-039**	**S-38443-110917-BW-037**	**S-38443-110917-BW-034**	**S-38443-110917-BW-035**	**S-38443-103117-BW-005**
	Sample Date:	**11/9/2017**	**11/9/2017**	**11/9/2017**	**11/9/2017**	**10/31/2017**
	Sample Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
					Duplicate	
Parameters	**Units**					
Semi-Volatiles						
Acenaphthene	µg/kg	17	19	14	6.4 U	2.2 U
Acenaphthylene	µg/kg	33	0.48 U	11	2.9 U	1.0 U
Acetophenone	µg/kg	10 U	14 J	14 J	78 U	73 J
Anthracene	µg/kg	65	49	52	130	47
Atrazine	µg/kg	10 U	12 U	11 U	77 U	27 U
Benzaldehyde	µg/kg	13 U	16 U	15 U	100 U	61 J
Benzo(a)anthracene	µg/kg	280	140	200 J	1000 J	200
Benzo(a)pyrene	µg/kg	270	120	210 J	720 J	140
Benzo(b)fluoranthene	µg/kg	370	180	340 J	1200 J	330
Benzo(g,h,i)perylene	µg/kg	210	86	190 J	570 J	89
Benzo(k)fluoranthene	µg/kg	150	82	120 J	430 J	73
Biphenyl (1,1-Biphenyl)	µg/kg	3.9 U	6.3 J	13 J	29 U	59 J
bis(2-Chloroethoxy)methane	µg/kg	25 U	30 U	27 U	190 U	65 U
bis(2-Chloroethyl)ether	µg/kg	2.2 U	2.7 U	2.5 U	17 U	5.9 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	27 J	81 J	110 J	5100 J	250
Butyl benzylphthalate (BBP)	µg/kg	11 U	14 U	12 U	84 U	340
Caprolactam	µg/kg	41 U	50 U	46 U	310 U	110 U
Carbazole	µg/kg	30 U	37 U	34 U	230 U	79 U
Chrysene	µg/kg	290	150	270 J	1200 J	240
Dibenz(a,h)anthracene	µg/kg	54	0.90 U	54	5.6 U	1.9 U
Dibenzofuran	µg/kg	15 J	20 J	28 J	5.6 U	260
Diethyl phthalate	µg/kg	18 U	22 U	20 U	130 U	47 U
Dimethyl phthalate	µg/kg	19 U	23 U	21 U	140 U	50 U
Di-n-butylphthalate (DBP)	µg/kg	20 J	45 J	88	150 J	150 J
Di-n-octyl phthalate (DnOP)	µg/kg	8.8 U	11 U	9.8 U	67 U	23 U
Fluoranthene	µg/kg	540	320	310 J	1800 J	310
Fluorene	µg/kg	17	19	9.1	4.5 U	1.6 U
Hexachlorobenzene	µg/kg	2.3 U	2.9 U	2.6 U	18 U	6.2 U
Hexachlorobutadiene	µg/kg	6.2 U	7.6 U	7.0 U	47 U	16 U
Hexachlorocyclopentadiene	µg/kg	9.0 U	11 U	10 U	68 U	24 U
Hexachloroethane	µg/kg	10 U	12 U	11 U	76 U	26 U
Indeno(1,2,3-cd)pyrene	µg/kg	180	68	150 J	500 J	58
Isophorone	µg/kg	14 U	18 U	16 U	110 U	38 U
Naphthalene	µg/kg	21	30	58	80	480
Nitrobenzene	µg/kg	2.5 U	3.0 U	2.7 U	19 U	6.5 U
N-Nitrosodi-n-propylamine	µg/kg	7.0 U	8.6 U	7.9 U	53 U	19 U
N-Nitrosodiphenylamine	µg/kg	23 U	29 U	26 U	180 U	62 U

Table 2

Analytical Results Summary
Test Pit Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-November 2017

	Sample Location:	**SS-1**	**SS-2**	**SS-3**	**SS-3**	**SS-20**
	Sample ID:	**S-38443-110917-BW-039**	**S-38443-110917-BW-037**	**S-38443-110917-BW-034**	**S-38443-110917-BW-035**	**S-38443-103117-BW-005**
	Sample Date:	**11/9/2017**	**11/9/2017**	**11/9/2017**	**11/9/2017**	**10/31/2017**
	Sample Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
					Duplicate	
Parameters	**Units**					
Semi-Volatiles						
Pentachlorophenol	µg/kg	10 U	12 U	11 U	77 U	27 UJ
Phenanthrene	µg/kg	200	220	190 J	800 J	580
Phenol	µg/kg	8.1 U	9.9 U	9.1 U	62 U	21 UJ
Pyrene	µg/kg	440	280	310 J	1500 J	320
Metals						
Aluminum	mg/kg	4700 J	6300 J	5900 J	4300 J	4700 J
Antimony	mg/kg	0.63 J	2.0 J	6.9 J	1.6 J	21 J
Arsenic	mg/kg	7.3 J	25 J	16 J	12 J	60
Barium	mg/kg	87 J	380 J	900 J	320 J	440
Beryllium	mg/kg	0.48	3.9	1.5	2.9	5.3
Cadmium	mg/kg	0.37 J	4.0 J	5.0 J	0.79 J	5.3
Calcium	mg/kg	110000 J	8100 J	56000 J	44000 J	2000
Chromium	mg/kg	9.4 J	27 J	38 J	13 J	24
Cobalt	mg/kg	4.2 J	12 J	19 J	8.0 J	12
Copper	mg/kg	24 J	1600 J	440 J	89 J	580
Iron	mg/kg	11000 J	10000 J	34000 J	8300 J	9200
Lead	mg/kg	58 J	190 J	760 J	100 J	370
Magnesium	mg/kg	30000	2500	16000	10000	1500
Manganese	mg/kg	350 J	140 J	720 J	300 J	47 J
Mercury	mg/kg	0.068 J	0.18	0.39	0.14 J	0.17
Nickel	mg/kg	11 J	30 J	47 J	20 J	38
Potassium	mg/kg	660 J	760 J	820 J	620 J	430
Selenium	mg/kg	0.66 UJ	2.8 J	2.1 J	1.8 J	5.1
Silver	mg/kg	0.068 UJ	0.44 J	1.0 J	0.28 J	0.46
Sodium	mg/kg	120 U	210 U	250	130 U	100 U
Thallium	mg/kg	0.16 J	0.51 J	0.26 J	0.41 J	1.8
Vanadium	mg/kg	15 J	35 J	19 J	20 J	44
Zinc	mg/kg	90 J	920 J	1400 J	290 J	390
PCBs						
Aroclor-1016 (PCB-1016)	µg/kg	27 U	32 U	30 U	31 U	35 U
Aroclor-1221 (PCB-1221)	µg/kg	25 U	31 U	29 U	30 U	34 U
Aroclor-1232 (PCB-1232)	µg/kg	18 U	22 U	20 U	21 U	24 U
Aroclor-1242 (PCB-1242)	µg/kg	22 U	27 U	25 U	26 U	29 U
Aroclor-1248 (PCB-1248)	µg/kg	19 U	23 U	21 U	22 U	25 U
Aroclor-1254 (PCB-1254)	µg/kg	15 U	120	68	35 J	85
Aroclor-1260 (PCB-1260)	µg/kg	20 U	24 U	22 U	23 U	26 U

Table 2

Analytical Results Summary
Test Pit Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-November 2017

	Sample Location:	**SS-1**	**SS-2**	**SS-3**	**SS-3**	**SS-20**
	Sample ID:	**S-38443-110917-BW-039**	**S-38443-110917-BW-037**	**S-38443-110917-BW-034**	**S-38443-110917-BW-035**	**S-38443-103117-BW-005**
	Sample Date:	**11/9/2017**	**11/9/2017**	**11/9/2017**	**11/9/2017**	**10/31/2017**
	Sample Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
					Duplicate	
Parameters	**Units**					
Pesticides						
4,4'-DDD	µg/kg	3.7 U	4.5 U	41 U	4.2 U	24 U
4,4'-DDE	µg/kg	1.4 U	1.6 U	15 U	1.5 U	8.7 U
4,4'-DDT	µg/kg	1.6 U	1.9 U	17 U	1.8 U	10 U
Aldrin	µg/kg	2.7 U	3.2 U	30 U	3.1 U	17 U
alpha-BHC	µg/kg	1.8 U	2.2 U	20 U	2.0 U	12 U
alpha-Chlordane	µg/kg	4.3 U	5.1 U	47 U	4.8 U	28 U
beta-BHC	µg/kg	4.4 U	5.3 U	49 U	5.0 U	28 U
delta-BHC	µg/kg	1.5 U	1.8 U	16 U	1.7 U	9.4 U
Dieldrin	µg/kg	1.0 U	1.2 U	11 U	1.1 U	6.5 U
Endosulfan I	µg/kg	1.5 U	1.8 U	16 U	1.7 U	9.4 U
Endosulfan II	µg/kg	2.0 U	2.4 U	22 U	2.3 U	13 U
Endosulfan sulfate	µg/kg	1.4 U	1.6 U	15 U	1.5 U	8.7 U
Endrin	µg/kg	1.6 U	2.6 NJ	17 U	1.8 U	10 U
Endrin aldehyde	µg/kg	2.0 U	3.0 J	22 U	2.3 U	13 U
Endrin ketone	µg/kg	1.2 U	1.5 U	14 U	1.4 U	8.0 U
gamma-BHC (lindane)	µg/kg	3.3 U	3.9 U	36 U	3.7 U	21 U
gamma-Chlordane	µg/kg	1.7 U	2.0 U	19 U	1.9 U	11 U
Heptachlor	µg/kg	0.88 U	1.1 U	9.7 U	0.99 U	5.7 U
Heptachlor epoxide	µg/kg	2.7 U	3.2 U	30 U	3.1 U	17 U
Methoxychlor	µg/kg	2.8 NJ	1.6 NJ	19 NJ	1.8 J	8.7 U
Toxaphene	µg/kg	42 U	50 U	460 U	47 U	270 U
Dioxins/Furans						
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-

Table 2

Analytical Results Summary
Test Pit Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-November 2017

	Sample Location:	**SS-1**	**SS-2**	**SS-3**	**SS-3**	**SS-20**
	Sample ID:	**S-38443-110917-BW-039**	**S-38443-110917-BW-037**	**S-38443-110917-BW-034**	**S-38443-110917-BW-035**	**S-38443-103117-BW-005**
	Sample Date:	**11/9/2017**	**11/9/2017**	**11/9/2017**	**11/9/2017**	**10/31/2017**
	Sample Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
					Duplicate	
Parameters	**Units**					
Dioxins/Furans						
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-
General Chemistry						
Cyanide (total)	mg/kg	0.50 U	0.63 U	13 J	0.57 UJ	0.68 U

Notes:

J - Estimated concentration
NJ - Tentatively identified compound, estimated concentration
R - Rejected
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
- - Not applicable

Table 2

Analytical Results Summary
Test Pit Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-November 2017

	Sample Location:	**SS-22**	**SS-24**	**SS-25**	**SS-29**	**SS-30**
	Sample ID:	**S-38443-110717-BW-029**	**S-38443-110717-BW-026**	**S-38443-110117-BW-011**	**S-38443-103117-BW-003**	**S-38443-110217-BW-019**
	Sample Date:	**11/7/2017**	**11/7/2017**	**11/1/2017**	**10/31/2017**	**11/2/2017**
	Sample Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**					
Volatiles						
1,1,1-Trichloroethane	µg/kg	0.42 U	0.71 J	0.54 J	0.64 U	0.25 U
1,1,2,2-Tetrachloroethane	µg/kg	0.48 UJ	0.66 U	0.30 U	R	0.28 U
1,1,2-Trichloroethane	µg/kg	0.72 U	0.98 U	0.45 U	1.1 U	0.42 U
1,1-Dichloroethane	µg/kg	0.61 U	0.83 U	0.38 U	0.91 U	0.36 U
1,1-Dichloroethene	µg/kg	0.99 U	1.4 U	0.62 U	1.5 U	0.58 U
1,2,4-Trichlorobenzene	µg/kg	0.44 U	0.61 U	0.27 U	R	0.26 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	1.2 U	1.7 U	0.78 U	R	0.73 U
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	0.64 U	0.88 U	0.40 U	0.97 U	0.38 U
1,2-Dichlorobenzene	µg/kg	0.40 U	0.56 U	0.25 U	R	0.24 U
1,2-Dichloroethane	µg/kg	0.53 U	0.73 U	0.33 U	0.80 U	0.31 U
1,2-Dichloropropane	µg/kg	0.57 U	0.78 U	0.35 U	0.86 U	0.33 U
1,3-Dichlorobenzene	µg/kg	0.53 U	0.73 U	0.33 U	R	0.31 U
1,4-Dichlorobenzene	µg/kg	0.64 U	0.88 U	0.40 U	R	0.38 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	2.3 U	3.2 U	1.5 U	3.5 U	1.4 U
2-Hexanone	µg/kg	1.1 U	1.5 U	0.66 U	1.6 U	0.63 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	1.6 U	2.2 U	1.0 U	2.5 U	0.96 U
Acetone	µg/kg	19 U	16 U	3.5 U	8.5 U	3.3 U
Benzene	µg/kg	0.86 J	0.81 U	0.37 U	0.89 U	0.35 U
Bromodichloromethane	µg/kg	0.61 U	0.83 U	0.38 U	0.91 U	0.36 U
Bromoform	µg/kg	0.73 U	1.0 U	0.46 U	1.1 U	0.43 U
Bromomethane (Methyl bromide)	µg/kg	1.1 UJ	1.5 U	0.67 U	1.6 UJ	0.64 U
Carbon disulfide	µg/kg	0.39 U	0.53 U	0.24 U	0.58 U	0.23 U
Carbon tetrachloride	µg/kg	0.46 U	0.63 U	0.29 U	0.69 U	0.27 U
Chlorobenzene	µg/kg	0.61 U	0.83 U	0.38 U	0.91 U	0.36 U
Chloroethane	µg/kg	0.70 U	0.96 U	0.43 U	1.1 U	0.41 U
Chloroform (Trichloromethane)	µg/kg	0.42 U	0.58 U	0.26 U	0.64 U	0.25 U
Chloromethane (Methyl chloride)	µg/kg	0.70 U	0.96 U	0.43 U	1.1 U	0.41 U
cis-1,2-Dichloroethene	µg/kg	0.51 U	0.71 U	0.39 J	0.77 U	0.30 U
cis-1,3-Dichloropropene	µg/kg	0.48 U	0.66 U	0.30 U	0.72 U	0.28 U
Cyclohexane	µg/kg	0.39 U	0.53 U	0.24 U	0.58 U	0.23 U
Dibromochloromethane	µg/kg	0.55 U	0.76 U	0.34 U	0.83 U	0.32 U
Dichlorodifluoromethane (CFC-12)	µg/kg	0.64 U	0.88 U	0.40 U	0.97 U	0.38 U
Ethylbenzene	µg/kg	0.50 U	0.68 U	0.31 U	0.75 U	0.29 U
Isopropyl benzene	µg/kg	0.37 U	0.50 U	0.23 U	0.55 U	0.22 U
Methyl acetate	µg/kg	2.1 U	3.0 U	1.3 U	3.2 U	1.3 U
Methyl cyclohexane	µg/kg	0.42 U	0.58 U	0.26 U	0.64 U	0.25 U
Methyl tert butyl ether (MTBE)	µg/kg	0.50 U	0.68 U	0.31 U	0.75 U	0.29 U

Table 2

Analytical Results Summary
Test Pit Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-November 2017

	Sample Location:	**SS-22**	**SS-24**	**SS-25**	**SS-29**	**SS-30**
	Sample ID:	**S-38443-110717-BW-029**	**S-38443-110717-BW-026**	**S-38443-110117-BW-011**	**S-38443-103117-BW-003**	**S-38443-110217-BW-019**
	Sample Date:	**11/7/2017**	**11/7/2017**	**11/1/2017**	**10/31/2017**	**11/2/2017**
	Sample Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**					
Volatiles						
Methylene chloride	µg/kg	4.5 U	11 U	0.27 U	0.66 U	0.26 U
Styrene	µg/kg	0.50 U	0.90 J	0.31 U	0.75 U	0.29 U
Tetrachloroethene	µg/kg	0.68 U	2.8 J	1.1 J	1.1 J	0.40 U
Toluene	µg/kg	0.62 U	0.86 U	0.39 U	2.3 J	0.37 U
trans-1,2-Dichloroethene	µg/kg	0.70 U	0.96 U	0.43 U	1.1 U	0.41 U
trans-1,3-Dichloropropene	µg/kg	0.39 U	0.53 U	0.24 U	0.58 U	0.23 U
Trichloroethene	µg/kg	0.75 U	1.0 U	67	1.1 U	0.44 U
Trichlorofluoromethane (CFC-11)	µg/kg	0.44 U	0.61 U	0.27 U	0.66 U	0.26 U
Trifluorotrichloroethane (CFC-113)	µg/kg	0.90 U	1.2 U	0.56 U	1.4 U	0.53 U
Vinyl chloride	µg/kg	0.51 U	0.71 U	0.32 U	0.77 U	0.30 U
Xylenes (total)	µg/kg	0.73 U	1.0 U	0.46 U	1.1 U	0.43 U
Semi-Volatiles						
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	62 U	45 U	10 U	13 U	11 U
2,4,5-Trichlorophenol	µg/kg	160 U	120 U	27 U	35 U	29 U
2,4,6-Trichlorophenol	µg/kg	58 U	42 U	9.6 U	13 U	10 U
2,4-Dichlorophenol	µg/kg	130 U	95 U	22 U	28 U	23 U
2,4-Dimethylphenol	µg/kg	130 U	95 U	22 U	28 U	23 U
2,4-Dinitrophenol	µg/kg	140 U	100 U	23 U	30 U	24 U
2,4-Dinitrotoluene	µg/kg	110 U	81 U	18 U	24 U	20 U
2,6-Dinitrotoluene	µg/kg	140 U	100 U	23 U	30 U	24 U
2-Chloronaphthalene	µg/kg	3.0 U	2.1 U	0.49 U	0.63 U	0.52 U
2-Chlorophenol	µg/kg	54 U	39 U	8.8 U	12 U	9.6 U
2-Methylnaphthalene	µg/kg	390	470	32	630	19
2-Methylphenol	µg/kg	72 U	52 U	12 U	15 U	13 U
2-Nitroaniline	µg/kg	60 U	43 U	9.8 U	13 U	11 U
2-Nitrophenol	µg/kg	54 U	40 U	9.0 U	12 U	9.7 U
3&4-Methylphenol	µg/kg	130 J	95 U	22 U	28 U	23 U
3,3'-Dichlorobenzidine	µg/kg	120 U	86 U	19 U	25 U	21 U
3-Nitroaniline	µg/kg	110 U	76 U	17 U	23 U	19 U
4,6-Dinitro-2-methylphenol	µg/kg	60 U	44 U	9.9 U	13 U	11 U
4-Bromophenyl phenyl ether	µg/kg	85 U	62 U	14 U	18 U	15 U
4-Chloro-3-methylphenol	µg/kg	140 U	100 U	23 U	30 U	24 U
4-Chloroaniline	µg/kg	110 U	81 U	18 U	24 U	20 U
4-Chlorophenyl phenyl ether	µg/kg	85 U	62 U	14 U	18 U	15 U
4-Nitroaniline	µg/kg	170 U	120 U	28 U	37 U	30 U
4-Nitrophenol	µg/kg	110 U	81 U	18 U	24 U	20 U

Table 2

Analytical Results Summary
Test Pit Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-November 2017

	Sample Location:	**SS-22**	**SS-24**	**SS-25**	**SS-29**	**SS-30**
	Sample ID:	**S-38443-110717-BW-029**	**S-38443-110717-BW-026**	**S-38443-110117-BW-011**	**S-38443-103117-BW-003**	**S-38443-110217-BW-019**
	Sample Date:	**11/7/2017**	**11/7/2017**	**11/1/2017**	**10/31/2017**	**11/2/2017**
	Sample Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**					
Semi-Volatiles						
Acenaphthene	µg/kg	5.0 U	51	5.0 J	1.1 U	11
Acenaphthylene	µg/kg	30 J	100	5.1 J	0.49 U	7.7 J
Acetophenone	µg/kg	550 J	67 J	26 J	52 J	11 U
Anthracene	µg/kg	90	140	27	23	41
Atrazine	µg/kg	60 U	43 U	9.8 U	13 U	11 U
Benzaldehyde	µg/kg	420 J	76 J	25 J	17 U	16 J
Benzo(a)anthracene	µg/kg	170	850	25	120	220
Benzo(a)pyrene	µg/kg	140	1000	33	110	210
Benzo(b)fluoranthene	µg/kg	220	1500	59	240	350
Benzo(g,h,i)perylene	µg/kg	130	850	27	78	110
Benzo(k)fluoranthene	µg/kg	66	460	28	67	140
Biphenyl (1,1-Biphenyl)	µg/kg	180 J	60 J	7.4 J	49 J	4.1 U
bis(2-Chloroethoxy)methane	µg/kg	140 U	100 U	24 U	31 U	26 U
bis(2-Chloroethyl)ether	µg/kg	13 U	9.5 U	2.2 U	2.8 U	2.3 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	940	440	630	97 U	38 U
Butyl benzylphthalate (BBP)	µg/kg	1200	48 U	11 U	14 U	12 U
Caprolactam	µg/kg	240 U	180 U	44 J	52 U	43 U
Carbazole	µg/kg	180 U	130 U	29 U	38 U	31 U
Chrysene	µg/kg	200	920	40	180	240
Dibenz(a,h)anthracene	µg/kg	4.3 U	210	0.71 U	0.93 U	0.77 U
Dibenzofuran	µg/kg	180 J	170 J	13 J	180	10 J
Diethyl phthalate	µg/kg	140 J	76 U	17 U	23 U	19 U
Dimethyl phthalate	µg/kg	110 U	81 U	18 U	24 U	20 U
Di-n-butylphthalate (DBP)	µg/kg	710	140 J	16 U	44 J	17 U
Di-n-octyl phthalate (DnOP)	µg/kg	52 U	38 U	8.5 U	11 U	9.2 U
Fluoranthene	µg/kg	350	1300	52	200	470
Fluorene	µg/kg	96	40	6.5 J	0.75 U	13
Hexachlorobenzene	µg/kg	14 U	10 U	2.3 U	3.0 U	2.4 U
Hexachlorobutadiene	µg/kg	37 U	27 U	6.0 U	7.9 U	6.5 U
Hexachlorocyclopentadiene	µg/kg	53 U	39 U	8.7 U	11 U	9.4 U
Hexachloroethane	µg/kg	59 U	43 U	9.7 U	13 U	10 U
Indeno(1,2,3-cd)pyrene	µg/kg	95	690	23	47	110
Isophorone	µg/kg	85 U	62 U	14 U	18 U	15 U
Naphthalene	µg/kg	370	330	34	400	15
Nitrobenzene	µg/kg	14 U	10 U	2.4 U	3.1 U	2.6 U
N-Nitrosodi-n-propylamine	µg/kg	41 U	30 U	6.8 U	8.9 U	7.3 U
N-Nitrosodiphenylamine	µg/kg	140 U	100 U	23 U	30 U	24 U

Table 2

Analytical Results Summary
Test Pit Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-November 2017

	Sample Location:	**SS-22**	**SS-24**	**SS-25**	**SS-29**	**SS-30**
	Sample ID:	**S-38443-110717-BW-029**	**S-38443-110717-BW-026**	**S-38443-110117-BW-011**	**S-38443-103117-BW-003**	**S-38443-110217-BW-019**
	Sample Date:	**11/7/2017**	**11/7/2017**	**11/1/2017**	**10/31/2017**	**11/2/2017**
	Sample Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**					
Semi-Volatiles						
Pentachlorophenol	µg/kg	60 U	43 U	9.8 U	13 U	11 U
Phenanthrene	µg/kg	670	700	67	440	220
Phenol	µg/kg	220 J	35 U	7.9 U	10 U	8.5 U
Pyrene	µg/kg	370	1200	56	200	450
Metals						
Aluminum	mg/kg	12000	7600	3500 J	2800 J	7800 J
Antimony	mg/kg	52	39	0.69 J	0.68 J	0.25 UJ
Arsenic	mg/kg	15	10	3.9	4.0	8.0
Barium	mg/kg	750	190	35 J	88	56
Beryllium	mg/kg	0.78	0.51	0.22	0.58	0.51
Cadmium	mg/kg	34	8.0	0.67	0.34	0.27
Calcium	mg/kg	25000	62000	52000	15000	43000
Chromium	mg/kg	110	35	25	7.9	13
Cobalt	mg/kg	17	7.7	4.7	4.3	6.4
Copper	mg/kg	3200	750	120	37	19
Iron	mg/kg	94000	32000	15000	5900	16000
Lead	mg/kg	13000	1900	140 J	46	17
Magnesium	mg/kg	8400	28000	26000	7400	19000
Manganese	mg/kg	600	530	390	100 J	480
Mercury	mg/kg	0.20	0.45	0.026 J	0.049 J	0.045 J
Nickel	mg/kg	120	94	19 J	11	15
Potassium	mg/kg	1000	730	410	450	890
Selenium	mg/kg	1.5	0.87 U	0.93 U	1.3 U	0.75 J
Silver	mg/kg	4.1	1.3	0.16 J	0.072 J	0.041 J
Sodium	mg/kg	980	300	100 U	97 U	85 U
Thallium	mg/kg	0.41 J	0.20 J	0.12 J	0.13 J	0.19 J
Vanadium	mg/kg	29	21	8.6	12	20
Zinc	mg/kg	2800	1200	58	43	58
PCBs						
Aroclor-1016 (PCB-1016)	µg/kg	31 U	580 U	26 U	33 U	28 UJ
Aroclor-1221 (PCB-1221)	µg/kg	30 U	550 U	25 U	32 U	27 U
Aroclor-1232 (PCB-1232)	µg/kg	21 U	390 U	17 U	22 U	19 U
Aroclor-1242 (PCB-1242)	µg/kg	340	480 U	21 U	28 U	23 U
Aroclor-1248 (PCB-1248)	µg/kg	22 U	410 U	18 U	24 U	20 U
Aroclor-1254 (PCB-1254)	µg/kg	660	29000	390	84	28 J
Aroclor-1260 (PCB-1260)	µg/kg	23 U	430 U	19 U	25 U	21 U

Table 2

Analytical Results Summary
Test Pit Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-November 2017

	Sample Location:	**SS-22**	**SS-24**	**SS-25**	**SS-29**	**SS-30**
	Sample ID:	**S-38443-110717-BW-029**	**S-38443-110717-BW-026**	**S-38443-110117-BW-011**	**S-38443-103117-BW-003**	**S-38443-110217-BW-019**
	Sample Date:	**11/7/2017**	**11/7/2017**	**11/1/2017**	**10/31/2017**	**11/2/2017**
	Sample Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**					
Pesticides						
4,4'-DDD	µg/kg	86 U	200 U	71 U	24 U	3.8 U
4,4'-DDE	µg/kg	31 U	72 U	26 U	8.7 U	1.4 U
4,4'-DDT	µg/kg	37 U	84 U	30 U	10 U	1.6 U
Aldrin	µg/kg	63 U	140 U	52 U	17 U	2.8 U
alpha-BHC	µg/kg	42 U	96 U	35 U	12 U	1.9 U
alpha-Chlordane	µg/kg	99 U	230 U	82 U	28 U	4.4 U
beta-BHC	µg/kg	100 U	230 U	84 U	28 U	4.5 U
delta-BHC	µg/kg	34 U	78 U	28 U	9.4 U	1.5 U
Dieldrin	µg/kg	23 U	54 U	19 U	6.5 U	1.0 U
Endosulfan I	µg/kg	34 U	78 U	28 U	9.4 U	1.5 U
Endosulfan II	µg/kg	47 U	110 U	39 U	13 U	2.1 U
Endosulfan sulfate	µg/kg	31 U	72 U	26 U	8.7 U	1.4 U
Endrin	µg/kg	39 NJ	140 NJ	30 U	10 U	1.6 U
Endrin aldehyde	µg/kg	110 J	110 UJ	39 U	13 U	2.1 U
Endrin ketone	µg/kg	29 U	66 U	24 U	8.0 U	1.3 U
gamma-BHC (lindane)	µg/kg	76 U	170 U	63 U	21 U	3.4 U
gamma-Chlordane	µg/kg	39 U	90 U	32 U	11 U	1.7 U
Heptachlor	µg/kg	20 U	47 U	17 U	5.7 U	0.90 U
Heptachlor epoxide	µg/kg	63 U	140 U	52 U	17 U	2.8 U
Methoxychlor	µg/kg	31 U	72 U	26 U	8.7 U	2.8 J
Toxaphene	µg/kg	970 U	2200 U	800 U	270 U	43 U
Dioxins/Furans						
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-

Table 2

Analytical Results Summary
Test Pit Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-November 2017

	Sample Location:	**SS-22**	**SS-24**	**SS-25**	**SS-29**	**SS-30**
	Sample ID:	**S-38443-110717-BW-029**	**S-38443-110717-BW-026**	**S-38443-110117-BW-011**	**S-38443-103117-BW-003**	**S-38443-110217-BW-019**
	Sample Date:	**11/7/2017**	**11/7/2017**	**11/1/2017**	**10/31/2017**	**11/2/2017**
	Sample Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**					
Dioxins/Furans						
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-
General Chemistry						
Cyanide (total)	mg/kg	0.59 UJ	0.51 UJ	0.46 U	0.60 U	0.53 U

Notes:

J - Estimated concentration
NJ - Tentatively identified compound, estimated concentration
R - Rejected
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
- - Not applicable

Table 2

Analytical Results Summary
Test Pit Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-November 2017

	Sample Location:	**SS-31**	**SS-35**	**SS-36**	**SS-39**	**SS-39**
	Sample ID:	**S-38443-110217-BW-017**	**S-38443-103017-BW-001**	**S-38443-103117-BW-007**	**S-38443-110117-BW-013**	**S-38443-110117-BW-014**
	Sample Date:	**11/2/2017**	**10/30/2017**	**10/31/2017**	**11/1/2017**	**11/1/2017**
	Sample Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
						Duplicate
Parameters	**Units**					
Volatiles						
1,1,1-Trichloroethane	µg/kg	0.34 U	0.27 U	0.31 U	0.39 U	0.31 U
1,1,2,2-Tetrachloroethane	µg/kg	0.39 U	0.31 UJ	0.35 UJ	0.44 U	0.35 U
1,1,2-Trichloroethane	µg/kg	0.58 U	0.47 U	0.52 U	0.65 U	0.53 U
1,1-Dichloroethane	µg/kg	0.49 U	0.39 U	0.44 U	0.55 U	0.45 U
1,1-Dichloroethene	µg/kg	0.80 U	0.64 U	0.72 U	0.91 U	0.73 U
1,2,4-Trichlorobenzene	µg/kg	0.36 U	0.29 U	0.32 U	0.40 U	0.32 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	1.0 U	0.81 U	0.91 U	1.1 U	0.92 U
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	0.52 U	0.42 U	0.47 U	0.59 U	0.47 U
1,2-Dichlorobenzene	µg/kg	0.33 U	0.26 U	0.29 U	0.37 U	0.30 U
1,2-Dichloroethane	µg/kg	0.43 U	0.35 U	0.39 U	0.49 U	0.39 U
1,2-Dichloropropane	µg/kg	0.46 U	0.37 U	0.41 U	0.52 U	0.42 U
1,3-Dichlorobenzene	µg/kg	0.43 U	0.35 U	0.39 U	0.49 U	0.39 U
1,4-Dichlorobenzene	µg/kg	0.52 U	0.42 U	0.47 U	0.59 U	0.47 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	1.9 U	1.5 U	1.7 U	2.1 U	1.7 U
2-Hexanone	µg/kg	0.86 U	0.69 U	0.77 U	0.97 U	0.78 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	1.3 U	1.1 U	1.2 U	1.5 U	1.2 U
Acetone	µg/kg	4.5 U	3.7 U	4.1 U	5.1 U	4.1 U
Benzene	µg/kg	0.48 U	0.38 U	0.43 U	0.54 U	0.43 U
Bromodichloromethane	µg/kg	0.49 U	0.39 U	0.44 U	0.55 U	0.45 U
Bromoform	µg/kg	0.59 U	0.48 U	0.53 U	0.67 U	0.54 U
Bromomethane (Methyl bromide)	µg/kg	0.88 UJ	0.70 UJ	0.79 UJ	0.99 UJ	0.80 U
Carbon disulfide	µg/kg	0.31 U	0.25 U	0.28 U	0.35 U	0.28 U
Carbon tetrachloride	µg/kg	0.37 U	0.30 U	0.33 U	0.42 U	0.34 U
Chlorobenzene	µg/kg	0.49 U	0.39 U	0.44 U	0.55 U	0.45 U
Chloroethane	µg/kg	0.56 U	0.45 U	0.51 U	0.64 U	0.51 U
Chloroform (Trichloromethane)	µg/kg	0.34 U	0.27 U	0.31 U	0.39 U	0.31 U
Chloromethane (Methyl chloride)	µg/kg	0.56 U	0.45 U	0.51 U	0.64 U	0.51 U
cis-1,2-Dichloroethene	µg/kg	0.42 U	0.33 U	0.37 U	0.47 U	0.38 U
cis-1,3-Dichloropropene	µg/kg	0.39 U	0.31 U	0.35 U	0.44 U	0.35 U
Cyclohexane	µg/kg	0.31 U	0.25 U	0.28 U	0.35 U	0.28 U
Dibromochloromethane	µg/kg	0.45 U	0.36 U	0.40 U	0.50 U	0.41 U
Dichlorodifluoromethane (CFC-12)	µg/kg	0.52 U	0.42 U	0.47 U	0.59 U	0.47 U
Ethylbenzene	µg/kg	0.40 U	0.32 U	0.36 U	0.45 U	0.37 U
Isopropyl benzene	µg/kg	0.30 U	0.24 U	0.27 U	0.34 U	0.27 U
Methyl acetate	µg/kg	1.7 U	1.4 U	1.6 U	2.0 U	1.6 U
Methyl cyclohexane	µg/kg	0.34 U	0.27 U	0.31 U	0.39 U	0.31 U
Methyl tert butyl ether (MTBE)	µg/kg	0.40 U	0.32 U	0.36 U	0.45 U	0.37 U

Table 2

Analytical Results Summary
Test Pit Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-November 2017

	Sample Location:	**SS-31**	**SS-35**	**SS-36**	**SS-39**	**SS-39**
	Sample ID:	**S-38443-110217-BW-017**	**S-38443-103017-BW-001**	**S-38443-103117-BW-007**	**S-38443-110117-BW-013**	**S-38443-110117-BW-014**
	Sample Date:	**11/2/2017**	**10/30/2017**	**10/31/2017**	**11/1/2017**	**11/1/2017**
	Sample Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
						Duplicate
Parameters	**Units**					
Volatiles						
Methylene chloride	µg/kg	0.36 U	0.29 U	0.32 U	0.40 U	0.32 U
Styrene	µg/kg	0.40 U	0.32 U	0.36 U	0.45 U	0.37 U
Tetrachloroethene	µg/kg	0.55 U	0.44 U	0.49 U	0.62 U	0.50 U
Toluene	µg/kg	0.50 U	0.41 U	0.45 U	0.57 U	0.46 U
trans-1,2-Dichloroethene	µg/kg	0.56 U	0.45 U	0.51 U	0.64 U	0.51 U
trans-1,3-Dichloropropene	µg/kg	0.31 U	0.25 U	0.28 U	0.35 U	0.28 U
Trichloroethene	µg/kg	0.61 U	0.49 U	0.55 U	0.69 U	0.55 U
Trichlorofluoromethane (CFC-11)	µg/kg	0.36 U	0.29 U	0.32 U	0.40 U	0.32 U
Trifluorotrichloroethane (CFC-113)	µg/kg	0.73 U	0.59 U	0.65 U	0.82 U	0.66 U
Vinyl chloride	µg/kg	0.42 U	0.33 U	0.37 U	0.47 U	0.38 U
Xylenes (total)	µg/kg	0.59 U	0.48 U	0.53 U	0.67 U	0.54 U
Semi-Volatiles						
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	11 U	11 U	10 U	13 U	24 U
2,4,5-Trichlorophenol	µg/kg	28 U	28 U	27 U	34 U	63 U
2,4,6-Trichlorophenol	µg/kg	10 U	9.9 U	9.7 U	12 U	23 U
2,4-Dichlorophenol	µg/kg	22 U	22 U	22 U	27 U	51 U
2,4-Dimethylphenol	µg/kg	22 U	22 U	22 U	27 U	51 U
2,4-Dinitrophenol	µg/kg	24 U	23 U	23 U	29 U	53 U
2,4-Dinitrotoluene	µg/kg	19 U	19 U	19 U	23 U	43 U
2,6-Dinitrotoluene	µg/kg	24 U	23 U	23 U	29 U	53 U
2-Chloronaphthalene	µg/kg	0.50 U	0.50 U	0.49 U	0.62 U	1.1 U
2-Chlorophenol	µg/kg	9.2 U	9.1 U	8.9 U	11 U	21 U
2-Methylnaphthalene	µg/kg	4.1 J	11	16	73	58
2-Methylphenol	µg/kg	12 U	12 U	12 U	15 U	28 U
2-Nitroaniline	µg/kg	10 U	10 U	9.9 U	12 U	23 U
2-Nitrophenol	µg/kg	9.3 U	9.2 U	9.0 U	11 U	21 U
3&4-Methylphenol	µg/kg	22 U	22 U	22 U	27 U	51 U
3,3'-Dichlorobenzidine	µg/kg	20 U	20 U	20 U	25 U	46 U
3-Nitroaniline	µg/kg	18 U	18 U	17 U	22 U	41 U
4,6-Dinitro-2-methylphenol	µg/kg	10 U	10 U	10 U	13 U	23 U
4-Bromophenyl phenyl ether	µg/kg	15 U	14 U	14 U	18 U	33 U
4-Chloro-3-methylphenol	µg/kg	24 U	23 U	23 U	29 U	53 U
4-Chloroaniline	µg/kg	19 U	19 U	19 U	23 U	43 U
4-Chlorophenyl phenyl ether	µg/kg	15 U	14 U	14 U	18 U	33 U
4-Nitroaniline	µg/kg	29 U	29 U	28 U	36 U	66 U
4-Nitrophenol	µg/kg	19 U	19 U	19 U	23 U	43 U

Table 2

Analytical Results Summary
Test Pit Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-November 2017

	Sample Location:	**SS-31**	**SS-35**	**SS-36**	**SS-39**	**SS-39**
	Sample ID:	**S-38443-110217-BW-017**	**S-38443-103017-BW-001**	**S-38443-103117-BW-007**	**S-38443-110117-BW-013**	**S-38443-110117-BW-014**
	Sample Date:	**11/2/2017**	**10/30/2017**	**10/31/2017**	**11/1/2017**	**11/1/2017**
	Sample Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
						Duplicate
Parameters	**Units**					
Semi-Volatiles						
Acenaphthene	µg/kg	0.85 U	16	0.83 U	54	52
Acenaphthylene	µg/kg	0.39 U	200	45	35	39
Acetophenone	µg/kg	10 U	10 U	10 U	13 U	23 U
Anthracene	µg/kg	4.6 J	71	19	120	120
Atrazine	µg/kg	10 U	10 U	9.9 U	12 U	23 U
Benzaldehyde	µg/kg	13 U	13 U	13 U	16 J	30 U
Benzo(a)anthracene	µg/kg	23	430	160	510	590
Benzo(a)pyrene	µg/kg	23	530	180	460	510
Benzo(b)fluoranthene	µg/kg	33	560	340	630	830
Benzo(g,h,i)perylene	µg/kg	21	430	78	280	280
Benzo(k)fluoranthene	µg/kg	12	340	120	280	300
Biphenyl (1,1-Biphenyl)	µg/kg	3.9 U	3.9 U	3.8 U	11 J	10 J
bis(2-Chloroethoxy)methane	µg/kg	25 U	25 U	24 U	30 U	56 U
bis(2-Chloroethyl)ether	µg/kg	2.2 U	2.2 U	2.2 U	2.7 U	5.1 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	55 U	75 J	53 U	67 U	125 U
Butyl benzylphthalate (BBP)	µg/kg	11 U	11 U	11 U	14 U	25 U
Caprolactam	µg/kg	41 U	41 U	40 U	51 U	320 J
Carbazole	µg/kg	30 U	30 J	29 U	80	70 J
Chrysene	µg/kg	23	420	180	560	660
Dibenz(a,h)anthracene	µg/kg	0.74 U	110	0.72 U	59	74
Dibenzofuran	µg/kg	0.74 U	11 J	0.72 U	45 J	40 J
Diethyl phthalate	µg/kg	18 U	18 U	17 U	22 U	41 U
Dimethyl phthalate	µg/kg	19 U	19 U	19 U	23 U	43 U
Di-n-butylphthalate (DBP)	µg/kg	17 U	17 U	31 J	21 U	38 U
Di-n-octyl phthalate (DnOP)	µg/kg	8.8 U	8.8 U	8.6 U	11 U	20 U
Fluoranthene	µg/kg	34	650	210	1200	1200
Fluorene	µg/kg	0.59 U	21	0.58 U	51	44
Hexachlorobenzene	µg/kg	2.4 U	2.3 UJ	2.3 U	2.9 U	5.3 U
Hexachlorobutadiene	µg/kg	6.3 U	6.2 U	6.1 U	7.7 U	14 U
Hexachlorocyclopentadiene	µg/kg	9.1 U	9.0 U	8.8 U	11 U	21 U
Hexachloroethane	µg/kg	10 U	10 U	9.8 U	12 U	23 U
Indeno(1,2,3-cd)pyrene	µg/kg	18	390	79	230	250
Isophorone	µg/kg	15 U	14 U	14 U	18 U	33 U
Naphthalene	µg/kg	0.92 U	15	11	56	42
Nitrobenzene	µg/kg	2.5 U	2.5 U	2.4 U	3.0 U	5.6 U
N-Nitrosodi-n-propylamine	µg/kg	7.1 U	7.0 U	6.9 U	8.6 U	16 U
N-Nitrosodiphenylamine	µg/kg	24 U	23 U	23 U	29 U	53 U

Table 2

Analytical Results Summary
Test Pit Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-November 2017

	Sample Location:	**SS-31**	**SS-35**	**SS-36**	**SS-39**	**SS-39**
	Sample ID:	**S-38443-110217-BW-017**	**S-38443-103017-BW-001**	**S-38443-103117-BW-007**	**S-38443-110117-BW-013**	**S-38443-110117-BW-014**
	Sample Date:	**11/2/2017**	**10/30/2017**	**10/31/2017**	**11/1/2017**	**11/1/2017**
	Sample Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
						Duplicate
Parameters	**Units**					
Semi-Volatiles						
Pentachlorophenol	µg/kg	10 U	10 UJ	9.9 U	12 U	23 U
Phenanthrene	µg/kg	18	220	62	620	580
Phenol	µg/kg	8.2 U	8.1 U	8.0 U	13 J	18 U
Pyrene	µg/kg	32	610	220	940	1100
Metals						
Aluminum	mg/kg	4700 J	7700 J	3400 J	8400 J	7700 J
Antimony	mg/kg	0.17 UJ	0.41 J	0.24 J	0.84 J	0.60 J
Arsenic	mg/kg	4.4	8.3	5.4	29	21
Barium	mg/kg	87	170	45	170 J	140 J
Beryllium	mg/kg	0.50	0.45	0.25	2.5	2.2
Cadmium	mg/kg	0.17 U	0.44	0.25	0.39	0.35
Calcium	mg/kg	110000	60000	100000	52000	65000
Chromium	mg/kg	8.5	14	6.3	16	15
Cobalt	mg/kg	3.6	7.2	2.9	9.6	8.0
Copper	mg/kg	17	44	75	44	40
Iron	mg/kg	8900	15000	8200	13000	12000
Lead	mg/kg	53	120	42	51 J	46 J
Magnesium	mg/kg	39000	21000	42000	19000	25000
Manganese	mg/kg	360	620 J	260 J	280	270
Mercury	mg/kg	0.30	0.052 J	0.053 J	0.27	0.23
Nickel	mg/kg	9.7	14	7.3	25 J	22 J
Potassium	mg/kg	600	800	590	1200	1100
Selenium	mg/kg	0.46 J	1.5	0.82 U	3.7	3.3
Silver	mg/kg	0.067 J	0.078 J	0.060 J	0.089 J	0.083 J
Sodium	mg/kg	130 U	86 U	120 U	180 U	160 U
Thallium	mg/kg	0.12 J	0.18 J	0.10 J	0.82	0.62
Vanadium	mg/kg	13	21	11	37	30
Zinc	mg/kg	46	110	86	77	72
PCBs						
Aroclor-1016 (PCB-1016)	µg/kg	27 UJ	28 U	27 UJ	33 U	31 UJ
Aroclor-1221 (PCB-1221)	µg/kg	26 U	27 U	26 UJ	32 U	30 UJ
Aroclor-1232 (PCB-1232)	µg/kg	18 U	19 U	18 UJ	22 U	21 UJ
Aroclor-1242 (PCB-1242)	µg/kg	23 U	23 U	22 UJ	28 U	26 U
Aroclor-1248 (PCB-1248)	µg/kg	19 U	20 U	19 UJ	24 U	22 UJ
Aroclor-1254 (PCB-1254)	µg/kg	16 U	52 J	75	33 J	18 U
Aroclor-1260 (PCB-1260)	µg/kg	21 U	21 U	20 U	25 U	24 J

Table 2

Analytical Results Summary
Test Pit Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-November 2017

	Sample Location:	**SS-31**	**SS-35**	**SS-36**	**SS-39**	**SS-39**
	Sample ID:	**S-38443-110217-BW-017**	**S-38443-103017-BW-001**	**S-38443-103117-BW-007**	**S-38443-110117-BW-013**	**S-38443-110117-BW-014**
	Sample Date:	**11/2/2017**	**10/30/2017**	**10/31/2017**	**11/1/2017**	**11/1/2017**
	Sample Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
						Duplicate
Parameters	**Units**					
Pesticides						
4,4'-DDD	µg/kg	19 U	3.7 U	3.6 U	46 U	21 U
4,4'-DDE	µg/kg	6.8 U	1.3 U	1.3 U	17 U	7.6 U
4,4'-DDT	µg/kg	8.0 U	3.4 J	3.8 J	20 U	8.9 U
Aldrin	µg/kg	14 U	2.7 U	2.6 U	34 U	15 U
alpha-BHC	µg/kg	9.1 U	1.8 U	1.7 U	22 U	10 U
alpha-Chlordane	µg/kg	22 U	4.3 U	4.1 U	53 U	24 U
beta-BHC	µg/kg	22 U	4.4 U	4.2 U	54 U	25 U
delta-BHC	µg/kg	7.4 U	1.5 U	1.4 U	18 U	8.3 U
Dieldrin	µg/kg	5.1 U	1.0 U	0.98 U	13 U	5.7 U
Endosulfan I	µg/kg	7.4 U	1.5 U	1.4 U	18 U	8.3 U
Endosulfan II	µg/kg	10 U	2.0 U	2.0 U	25 U	11 U
Endosulfan sulfate	µg/kg	6.8 U	1.7 J	1.3 U	17 U	7.6 U
Endrin	µg/kg	8.0 U	1.6 U	1.5 U	20 U	8.9 U
Endrin aldehyde	µg/kg	10 U	2.0 U	2.0 U	25 U	11 U
Endrin ketone	µg/kg	6.2 U	1.2 U	1.2 U	15 U	7.0 U
gamma-BHC (lindane)	µg/kg	16 U	3.3 U	3.2 U	40 U	18 U
gamma-Chlordane	µg/kg	8.5 U	1.7 U	1.6 U	21 U	9.6 U
Heptachlor	µg/kg	4.4 U	0.88 U	0.85 U	11 U	5.0 U
Heptachlor epoxide	µg/kg	14 U	2.7 U	2.6 U	34 U	15 U
Methoxychlor	µg/kg	6.8 U	1.3 U	1.3 U	17 U	7.6 U
Toxaphene	µg/kg	210 U	42 U	40 U	520 U	240 U
Dioxins/Furans						
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	14	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	180	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	8.4	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	19	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	0.13 U	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	1.3 J	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	0.55 J	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	1.7 J	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	1.4 J	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	0.20 U	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	1.3 J	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	0.28 J	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	0.79 J	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	1.1 J	-	-	-

Table 2

Analytical Results Summary
Test Pit Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-November 2017

	Sample Location:	**SS-31**	**SS-35**	**SS-36**	**SS-39**	**SS-39**
	Sample ID:	**S-38443-110217-BW-017**	**S-38443-103017-BW-001**	**S-38443-103117-BW-007**	**S-38443-110117-BW-013**	**S-38443-110117-BW-014**
	Sample Date:	**11/2/2017**	**10/30/2017**	**10/31/2017**	**11/1/2017**	**11/1/2017**
	Sample Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
						Duplicate
Parameters	**Units**					
Dioxins/Furans						
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	0.90 J	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	0.89 J	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	0.17 J	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	20 J	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	40 J	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	33 J	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	12 J	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	54 J	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	24 J	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	59 J	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	2.0 J	-	-	-
General Chemistry						
Cyanide (total)	mg/kg	0.52 U	0.47 U	0.48 U	0.64 U	0.56 U

Notes:

J - Estimated concentration
NJ - Tentatively identified compound, estimated concentration
R - Rejected
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
- - Not applicable

Table 2

Analytical Results Summary
Test Pit Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-November 2017

	Sample Location:	**SS-58**	**SS-86**	**SS-132**	**SS-132**	**TP-8**
	Sample ID:	**S-38443-110317-BW-021**	**S-38443-110217-BW-015**	**S-38443-110817-BW-031**	**S-38443-110817-BW-032**	**S-38443-110917-BW-040**
	Sample Date:	**11/3/2017**	**11/2/2017**	**11/8/2017**	**11/8/2017**	**11/9/2017**
	Sample Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**14-15 ft BGS**
					Duplicate	
Parameters	**Units**					
Volatiles						
1,1,1-Trichloroethane	µg/kg	0.84 U	0.33 U	69 U	43 U	0.29 U
1,1,2,2-Tetrachloroethane	µg/kg	0.95 U	0.37 U	59 UJ	37 UJ	0.33 UJ
1,1,2-Trichloroethane	µg/kg	1.4 U	0.55 U	57 U	35 U	0.49 U
1,1-Dichloroethane	µg/kg	1.2 U	0.47 U	76 U	47 U	0.41 U
1,1-Dichloroethene	µg/kg	2.0 U	0.77 U	89 U	55 U	0.68 U
1,2,4-Trichlorobenzene	µg/kg	0.88 U	0.34 U	64 U	40 U	0.30 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	2.5 U	0.96 U	120 U	73 U	0.85 U
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	1.3 U	0.50 U	57 U	35 U	0.44 U
1,2-Dichlorobenzene	µg/kg	0.81 U	0.31 U	44 U	27 U	0.28 U
1,2-Dichloroethane	µg/kg	1.1 U	0.41 U	74 U	46 U	0.36 U
1,2-Dichloropropane	µg/kg	1.1 U	0.44 U	74 U	46 U	0.39 U
1,3-Dichlorobenzene	µg/kg	1.1 U	0.41 U	94 U	58 U	0.36 U
1,4-Dichlorobenzene	µg/kg	1.3 U	0.50 U	67 U	41 U	0.44 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	4.7 U	1.8 U	120 U	85 J	1.6 U
2-Hexanone	µg/kg	2.1 U	0.82 U	210 U	130 U	0.73 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	3.3 U	1.3 U	99 U	61 U	1.1 U
Acetone	µg/kg	11 U	4.3 U	240 U	150 U	17 U
Benzene	µg/kg	1.2 U	0.45 U	59 U	37 U	0.40 U
Bromodichloromethane	µg/kg	1.2 U	0.47 U	44 U	27 U	0.41 U
Bromoform	µg/kg	1.5 U	0.57 U	57 U	35 U	0.50 U
Bromomethane (Methyl bromide)	µg/kg	2.2 UJ	0.84 UJ	69 UJ	43 UJ	0.74 UJ
Carbon disulfide	µg/kg	0.77 U	0.30 U	44 U	27 U	0.26 U
Carbon tetrachloride	µg/kg	0.92 U	0.35 U	67 U	41 U	0.31 U
Chlorobenzene	µg/kg	1.2 U	0.47 U	74 U	46 U	0.41 U
Chloroethane	µg/kg	1.4 U	0.54 U	69 U	43 U	0.48 U
Chloroform (Trichloromethane)	µg/kg	0.84 U	0.33 U	59 U	37 U	0.29 U
Chloromethane (Methyl chloride)	µg/kg	1.4 U	0.54 U	44 U	27 U	0.48 U
cis-1,2-Dichloroethene	µg/kg	1.0 U	0.40 U	270 J	340 J	0.35 U
cis-1,3-Dichloropropene	µg/kg	0.95 U	0.37 U	57 U	35 U	0.33 U
Cyclohexane	µg/kg	0.77 U	0.30 U	74 U	46 J	0.26 U
Dibromochloromethane	µg/kg	1.1 U	0.43 U	84 U	52 U	0.38 U
Dichlorodifluoromethane (CFC-12)	µg/kg	1.3 U	0.50 U	54 U	34 U	0.44 U
Ethylbenzene	µg/kg	0.99 U	0.38 U	86 U	53 U	0.34 U
Isopropyl benzene	µg/kg	0.73 U	0.28 U	84 U	52 U	0.25 U
Methyl acetate	µg/kg	4.3 U	1.7 U	180 U	110 U	1.5 U
Methyl cyclohexane	µg/kg	0.84 U	0.33 U	160 J	160 J	0.29 U
Methyl tert butyl ether (MTBE)	µg/kg	0.99 U	0.38 U	64 U	40 U	0.34 U

Table 2

Analytical Results Summary
Test Pit Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-November 2017

	Sample Location:	**SS-58**	**SS-86**	**SS-132**	**SS-132**	**TP-8**
	Sample ID:	**S-38443-110317-BW-021**	**S-38443-110217-BW-015**	**S-38443-110817-BW-031**	**S-38443-110817-BW-032**	**S-38443-110917-BW-040**
	Sample Date:	**11/3/2017**	**11/2/2017**	**11/8/2017**	**11/8/2017**	**11/9/2017**
	Sample Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**14-15 ft BGS**
					Duplicate	
Parameters	**Units**					
Volatiles						
Methylene chloride	µg/kg	0.88 U	0.34 U	470 J	280 J	1.7 U
Styrene	µg/kg	0.99 U	0.38 U	25 U	15 U	0.34 U
Tetrachloroethene	µg/kg	1.4 U	0.52 U	52 U	32 U	0.47 U
Toluene	µg/kg	1.2 U	0.48 U	90 J	110 J	0.43 U
trans-1,2-Dichloroethene	µg/kg	1.4 U	0.54 U	86 U	53 U	0.48 U
trans-1,3-Dichloropropene	µg/kg	0.77 U	0.30 U	37 U	23 U	0.26 U
Trichloroethene	µg/kg	1.5 U	0.58 U	3200	3600	0.52 U
Trichlorofluoromethane (CFC-11)	µg/kg	0.88 U	0.34 U	84 U	52 U	0.30 U
Trifluorotrichloroethane (CFC-113)	µg/kg	1.8 U	0.69 U	57 U	35 U	0.62 U
Vinyl chloride	µg/kg	1.0 U	0.40 U	42 U	26 U	0.35 U
Xylenes (total)	µg/kg	1.5 U	0.57 U	69 U	140 J	0.50 U
Semi-Volatiles						
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	13 U	570 U	200 U	68 U	11 U
2,4,5-Trichlorophenol	µg/kg	35 U	1500 U	530 U	180 U	29 U
2,4,6-Trichlorophenol	µg/kg	12 U	540 U	190 U	64 U	10 U
2,4-Dichlorophenol	µg/kg	28 U	1200 U	420 U	140 U	23 U
2,4-Dimethylphenol	µg/kg	28 U	1200 U	420 U	140 U	23 U
2,4-Dinitrophenol	µg/kg	29 U	1300 U	440 U	150 U	24 U
2,4-Dinitrotoluene	µg/kg	24 U	1000 U	360 U	120 U	20 U
2,6-Dinitrotoluene	µg/kg	29 U	1300 U	440 U	150 U	24 U
2-Chloronaphthalene	µg/kg	0.63 U	27 U	9.5 U	3.2 U	0.52 U
2-Chlorophenol	µg/kg	12 U	500 U	170 U	59 U	9.5 U
2-Methylnaphthalene	µg/kg	420	490	380	310	0.58 U
2-Methylphenol	µg/kg	15 U	670 U	230 U	79 U	13 U
2-Nitroaniline	µg/kg	13 U	550 U	190 U	65 U	11 U
2-Nitrophenol	µg/kg	12 U	500 U	170 U	59 U	9.6 U
3&4-Methylphenol	µg/kg	28 U	1200 U	420 U	140 U	23 U
3,3'-Dichlorobenzidine	µg/kg	25 U	1100 U	380 U	130 U	21 U
3-Nitroaniline	µg/kg	22 U	970 U	340 U	110 U	19 U
4,6-Dinitro-2-methylphenol	µg/kg	13 U	560 U	190 U	66 U	11 U
4-Bromophenyl phenyl ether	µg/kg	18 U	790 U	270 U	93 U	15 U
4-Chloro-3-methylphenol	µg/kg	29 U	1300 U	440 U	150 U	24 U
4-Chloroaniline	µg/kg	24 U	1000 U	360 U	120 U	20 U
4-Chlorophenyl phenyl ether	µg/kg	18 U	790 U	270 U	93 U	15 U
4-Nitroaniline	µg/kg	36 U	1600 U	550 U	190 U	30 U
4-Nitrophenol	µg/kg	24 U	1000 U	360 U	120 U	20 U

Table 2

Analytical Results Summary
Test Pit Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-November 2017

	Sample Location:	**SS-58**	**SS-86**	**SS-132**	**SS-132**	**TP-8**
	Sample ID:	**S-38443-110317-BW-021**	**S-38443-110217-BW-015**	**S-38443-110817-BW-031**	**S-38443-110817-BW-032**	**S-38443-110917-BW-040**
	Sample Date:	**11/3/2017**	**11/2/2017**	**11/8/2017**	**11/8/2017**	**11/9/2017**
	Sample Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS Duplicate**	**14-15 ft BGS**
Parameters	**Units**					
Semi-Volatiles						
Acenaphthene	µg/kg	1.1 U	5300	1400 J	360 J	0.88 U
Acenaphthylene	µg/kg	0.49 U	21 U	97 J	65	0.41 U
Acetophenone	µg/kg	43 J	560 U	190 U	66 U	11 U
Anthracene	µg/kg	1.1 U	12000	3600 J	1100 J	4.8 J
Atrazine	µg/kg	13 U	550 U	190 U	65 U	11 U
Benzaldehyde	µg/kg	55 J	730 U	250 U	86 U	14 U
Benzo(a)anthracene	µg/kg	61	27000	9600	4500	31
Benzo(a)pyrene	µg/kg	46	17000	8500	4200	29
Benzo(b)fluoranthene	µg/kg	67	25000	12000	5700	37
Benzo(g,h,i)perylene	µg/kg	33	8700	6100	3400	17
Benzo(k)fluoranthene	µg/kg	22	9500	4200	2200	12
Biphenyl (1,1-Biphenyl)	µg/kg	65 J	210 U	74 U	86 J	4.1 U
bis(2-Chloroethoxy)methane	µg/kg	31 U	1300 U	460 U	160 U	26 U
bis(2-Chloroethyl)ether	µg/kg	2.8 U	120 U	42 U	14 U	2.3 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	48 U	1100 U	400 U	230 J	29 J
Butyl benzylphthalate (BBP)	µg/kg	14 U	600 U	210 U	71 U	12 U
Caprolactam	µg/kg	52 U	2200 U	780 U	260 U	43 U
Carbazole	µg/kg	38 U	8400	1500	550	31 U
Chrysene	µg/kg	75	29000	9300	4600	29
Dibenz(a,h)anthracene	µg/kg	0.93 U	2700	1600	860	0.77 U
Dibenzofuran	µg/kg	130	2700 J	780 J	260 J	0.77 U
Diethyl phthalate	µg/kg	22 U	970 U	350 J	110 U	19 U
Dimethyl phthalate	µg/kg	24 U	1000 U	360 U	120 U	20 U
Di-n-butylphthalate (DBP)	µg/kg	37 J	910 U	360 J	180 J	17 U
Di-n-octyl phthalate (DnOP)	µg/kg	11 U	480 U	170 U	56 U	9.2 U
Fluoranthene	µg/kg	69	65000	21000	9200	45
Fluorene	µg/kg	0.74 U	5300	1300 J	350 J	0.62 U
Hexachlorobenzene	µg/kg	2.9 U	130 U	44 U	15 U	2.4 U
Hexachlorobutadiene	µg/kg	7.9 U	340 U	120 U	40 U	6.5 U
Hexachlorocyclopentadiene	µg/kg	11 U	490 U	170 U	58 U	9.4 U
Hexachloroethane	µg/kg	13 U	540 U	190 U	64 U	10 U
Indeno(1,2,3-cd)pyrene	µg/kg	17	7600	5300	3000	18
Isophorone	µg/kg	18 U	790 U	270 U	93 U	15 U
Naphthalene	µg/kg	230	500	330	300	0.95 U
Nitrobenzene	µg/kg	3.1 U	130 U	46 U	16 U	2.6 U
N-Nitrosodi-n-propylamine	µg/kg	8.8 U	380 U	130 U	45 U	7.3 U
N-Nitrosodiphenylamine	µg/kg	29 U	1300 U	440 U	150 U	24 U

Table 2

Analytical Results Summary
Test Pit Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-November 2017

	Sample Location:	**SS-58**	**SS-86**	**SS-132**	**SS-132**	**TP-8**
	Sample ID:	**S-38443-110317-BW-021**	**S-38443-110217-BW-015**	**S-38443-110817-BW-031**	**S-38443-110817-BW-032**	**S-38443-110917-BW-040**
	Sample Date:	**11/3/2017**	**11/2/2017**	**11/8/2017**	**11/8/2017**	**11/9/2017**
	Sample Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**14-15 ft BGS**
					Duplicate	
Parameters	**Units**					
Semi-Volatiles						
Pentachlorophenol	µg/kg	13 U	550 U	190 U	65 U	11 U
Phenanthrene	µg/kg	320	52000	13000	4800	15
Phenol	µg/kg	10 U	440 U	150 U	52 U	8.5 U
Pyrene	µg/kg	80	50000	18000	7700	43
Metals						
Aluminum	mg/kg	1700 J	6500 J	7100	6600	5200 J
Antimony	mg/kg	0.33 UJ	0.55 J	8.1 J	5.7 J	0.31 UJ
Arsenic	mg/kg	7.9	15	26	27	5.9 J
Barium	mg/kg	57	130	990	970	67 J
Beryllium	mg/kg	0.56	1.2	0.86	0.86	0.37
Cadmium	mg/kg	0.44	0.35	5.2	4.4	0.22 J
Calcium	mg/kg	1600	58000	71000	82000	73000 J
Chromium	mg/kg	3.5	13	48	36	8.3 J
Cobalt	mg/kg	2.9	6.8	13	10	4.1 J
Copper	mg/kg	12	37	870	730	8.1 J
Iron	mg/kg	7200	13000	40000	25000	12000 J
Lead	mg/kg	2.9	58	2600 J	840 J	7.8 J
Magnesium	mg/kg	290	24000	25000	32000	28000
Manganese	mg/kg	150	270	1100	1100	420 J
Mercury	mg/kg	0.039 J	0.15	0.28	0.24	0.020 U
Nickel	mg/kg	10	16	61	49	9.6 J
Potassium	mg/kg	210 U	960	790	740	600 J
Selenium	mg/kg	1.2 J	1.4	1.3	1.2	0.55 UJ
Silver	mg/kg	0.018 J	0.094 J	1.9	1.7	0.026 UJ
Sodium	mg/kg	60 U	130 U	310	270	100 U
Thallium	mg/kg	0.21 J	0.53	0.36 J	0.33 J	0.14 J
Vanadium	mg/kg	7.8	30	19	19	15 J
Zinc	mg/kg	47	81	1500	1400	35 J
PCBs						
Aroclor-1016 (PCB-1016)	µg/kg	34 UJ	28 UJ	50 U	26 U	27 U
Aroclor-1221 (PCB-1221)	µg/kg	33 U	27 U	48 U	25 U	26 U
Aroclor-1232 (PCB-1232)	µg/kg	23 U	19 U	33 U	17 U	18 U
Aroclor-1242 (PCB-1242)	µg/kg	29 U	23 U	42 U	21 U	22 U
Aroclor-1248 (PCB-1248)	µg/kg	24 U	20 U	1900 J	1300 J	19 U
Aroclor-1254 (PCB-1254)	µg/kg	20 U	41 J	29 U	15 U	16 U
Aroclor-1260 (PCB-1260)	µg/kg	26 U	21 U	1100 J	440 J	20 U

Table 2

Analytical Results Summary
Test Pit Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-November 2017

	Sample Location:	**SS-58**	**SS-86**	**SS-132**	**SS-132**	**TP-8**
	Sample ID:	**S-38443-110317-BW-021**	**S-38443-110217-BW-015**	**S-38443-110817-BW-031**	**S-38443-110817-BW-032**	**S-38443-110917-BW-040**
	Sample Date:	**11/3/2017**	**11/2/2017**	**11/8/2017**	**11/8/2017**	**11/9/2017**
	Sample Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS Duplicate**	**14-15 ft BGS**
Parameters	**Units**					
Pesticides						
4,4'-DDD	µg/kg	48 U	21 U	35 U	35 U	3.9 U
4,4'-DDE	µg/kg	18 U	7.5 U	13 U	13 U	1.4 U
4,4'-DDT	µg/kg	20 U	8.8 U	15 U	15 U	1.6 U
Aldrin	µg/kg	35 U	15 U	25 U	26 U	2.8 U
alpha-BHC	µg/kg	23 U	10 U	17 U	17 U	1.9 U
alpha-Chlordane	µg/kg	56 U	24 U	40 U	41 U	4.4 U
beta-BHC	µg/kg	57 U	24 U	41 U	42 U	4.6 U
delta-BHC	µg/kg	19 U	8.2 U	14 U	14 U	1.5 U
Dieldrin	µg/kg	13 U	5.6 U	9.4 U	9.6 U	1.1 U
Endosulfan I	µg/kg	19 U	8.2 U	14 U	14 U	1.5 U
Endosulfan II	µg/kg	26 U	11 U	19 U	19 U	2.1 U
Endosulfan sulfate	µg/kg	18 U	7.5 U	13 U	13 U	1.4 U
Endrin	µg/kg	20 U	8.8 U	17 NJ	15 U	1.6 U
Endrin aldehyde	µg/kg	26 U	11 U	36 J	24 J	2.1 U
Endrin ketone	µg/kg	16 U	6.9 U	12 U	12 U	1.3 U
gamma-BHC (lindane)	µg/kg	42 U	18 U	30 U	31 U	3.4 U
gamma-Chlordane	µg/kg	22 U	9.4 U	16 U	16 U	1.8 U
Heptachlor	µg/kg	11 U	4.9 U	8.2 U	8.4 U	0.91 U
Heptachlor epoxide	µg/kg	35 U	15 U	25 U	26 U	2.8 U
Methoxychlor	µg/kg	18 U	7.5 U	13 U	20 NJ	2.0 J
Toxaphene	µg/kg	540 U	230 U	390 U	400 U	43 U
Dioxins/Furans						
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	0.77 U
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	23
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	0.86 U
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	1.8 U
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	0.083 J
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	0.27 J
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	0.11 J
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	0.46 J
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	0.20 J
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	0.10 U
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	0.35 J
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	0.032 U
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	0.037 U
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	0.19 J

Table 2

Analytical Results Summary
Test Pit Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-November 2017

	Sample Location:	**SS-58**	**SS-86**	**SS-132**	**SS-132**	**TP-8**
	Sample ID:	**S-38443-110317-BW-021**	**S-38443-110217-BW-015**	**S-38443-110817-BW-031**	**S-38443-110817-BW-032**	**S-38443-110917-BW-040**
	Sample Date:	**11/3/2017**	**11/2/2017**	**11/8/2017**	**11/8/2017**	**11/9/2017**
	Sample Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS Duplicate**	**14-15 ft BGS**
Parameters	**Units**					
Dioxins/Furans						
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	0.15 J
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	0.24 J
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	0.078 J
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	1.7 J
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	3.8 J
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	8.2 J
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	3.2 J
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	17 J
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	1.9 J
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	19 J
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	0.63 J
General Chemistry						
Cyanide (total)	mg/kg	1.9 J	0.51 U	0.49 U	0.49 U	0.50 U

Notes:

J - Estimated concentration
NJ - Tentatively identified compound, estimated concentration
R - Rejected
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
- - Not applicable

Table 2

Analytical Results Summary
Test Pit Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-November 2017

	Sample Location:	**TP-9**	**TP-10**	**TP-11**	**TP-12**	**TP-12**
	Sample ID:	**S-38443-110917-BW-038**	**S-38443-110917-BW-036**	**S-38443-103117-BW-006**	**S-38443-110117-BW-009**	**S-38443-110117-BW-010**
	Sample Date:	**11/9/2017**	**11/9/2017**	**10/31/2017**	**11/1/2017**	**11/1/2017**
	Sample Depth:	**2-4 ft BGS**	**4-6 ft BGS**	**8-10 ft BGS**	**8-10 ft BGS**	**8-10 ft BGS Duplicate**
Parameters	**Units**					
Volatiles						
1,1,1-Trichloroethane	µg/kg	0.34 U	0.52 U	6.8 J	35 J	29 U
1,1,2,2-Tetrachloroethane	µg/kg	0.39 UJ	R	R	30 U	25 U
1,1,2-Trichloroethane	µg/kg	0.58 U	R	0.67 UJ	29 U	24 U
1,1-Dichloroethane	µg/kg	0.49 U	0.75 U	0.57 U	490	45 J
1,1-Dichloroethene	µg/kg	0.80 U	1.2 U	0.93 U	45 U	37 U
1,2,4-Trichlorobenzene	µg/kg	0.36 U	R	R	32 U	27 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	1.0 U	R	R	60 U	50 U
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	0.52 U	R	0.60 U	29 U	24 U
1,2-Dichlorobenzene	µg/kg	0.33 U	R	R	22 U	19 U
1,2-Dichloroethane	µg/kg	0.43 U	0.66 U	0.50 U	37 U	31 U
1,2-Dichloropropane	µg/kg	0.46 U	0.71 U	0.53 U	37 U	31 U
1,3-Dichlorobenzene	µg/kg	0.43 U	R	R	47 U	39 U
1,4-Dichlorobenzene	µg/kg	0.52 U	R	R	34 U	28 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	1.9 U	2.9 U	2.2 U	93 J	58 J
2-Hexanone	µg/kg	0.86 U	R	1.0 UJ	110 U	89 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	1.3 U	R	1.5 UJ	150 J	41 U
Acetone	µg/kg	17 U	20 U	5.3 U	120 U	100 U
Benzene	µg/kg	0.48 U	0.73 U	0.55 U	63 J	25 U
Bromodichloromethane	µg/kg	0.49 U	0.75 U	0.57 U	22 U	19 U
Bromoform	µg/kg	0.60 U	R	0.69 UJ	29 U	24 U
Bromomethane (Methyl bromide)	µg/kg	0.88 UJ	1.3 UJ	1.0 UJ	35 UJ	29 UJ
Carbon disulfide	µg/kg	0.31 U	0.48 U	0.36 U	22 U	19 U
Carbon tetrachloride	µg/kg	0.37 U	0.57 U	0.43 U	34 U	28 U
Chlorobenzene	µg/kg	0.49 U	R	0.57 UJ	1600	1300
Chloroethane	µg/kg	0.57 U	0.87 U	0.65 U	35 U	29 U
Chloroform (Trichloromethane)	µg/kg	0.34 U	0.52 U	0.40 U	30 U	25 U
Chloromethane (Methyl chloride)	µg/kg	0.57 U	0.87 U	0.65 U	22 U	19 U
cis-1,2-Dichloroethene	µg/kg	0.42 U	0.64 U	0.48 U	44 U	47 J
cis-1,3-Dichloropropene	µg/kg	0.39 U	0.59 U	0.45 U	29 U	24 U
Cyclohexane	µg/kg	0.31 U	0.48 U	0.36 U	66 J	31 U
Dibromochloromethane	µg/kg	0.45 U	R	0.52 UJ	42 U	35 U
Dichlorodifluoromethane (CFC-12)	µg/kg	0.52 U	0.80 U	0.60 U	27 U	23 U
Ethylbenzene	µg/kg	0.40 U	R	0.46 UJ	280 J	270
Isopropyl benzene	µg/kg	0.30 U	R	0.34 UJ	1800	1200
Methyl acetate	µg/kg	1.7 U	2.7 U	2.0 U	210 J	190 J
Methyl cyclohexane	µg/kg	0.34 U	0.52 U	0.40 U	220 J	66 J
Methyl tert butyl ether (MTBE)	µg/kg	0.40 U	0.62 U	0.46 U	32 U	27 U

Table 2

Analytical Results Summary
Test Pit Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-November 2017

	Sample Location:	**TP-9**	**TP-10**	**TP-11**	**TP-12**	**TP-12**
	Sample ID:	**S-38443-110917-BW-038**	**S-38443-110917-BW-036**	**S-38443-103117-BW-006**	**S-38443-110117-BW-009**	**S-38443-110117-BW-010**
	Sample Date:	**11/9/2017**	**11/9/2017**	**10/31/2017**	**11/1/2017**	**11/1/2017**
	Sample Depth:	**2-4 ft BGS**	**4-6 ft BGS**	**8-10 ft BGS**	**8-10 ft BGS**	**8-10 ft BGS Duplicate**
Parameters	**Units**					
Volatiles						
Methylene chloride	µg/kg	1.9 U	4.1 U	0.41 U	81 U	67 U
Styrene	µg/kg	0.40 U	R	0.46 UJ	12 U	10 U
Tetrachloroethene	µg/kg	0.55 U	4.5 J	51 J	53 J	22 U
Toluene	µg/kg	0.51 U	R	0.58 U	1000	1400
trans-1,2-Dichloroethene	µg/kg	0.57 U	0.87 U	0.65 U	44 U	36 U
trans-1,3-Dichloropropene	µg/kg	0.31 U	R	0.36 UJ	19 U	15 U
Trichloroethene	µg/kg	0.61 U	22 J	4.0 J	46 U	38 U
Trichlorofluoromethane (CFC-11)	µg/kg	0.36 U	0.55 U	0.41 U	42 U	35 U
Trifluorotrichloroethane (CFC-113)	µg/kg	0.73 U	1.1 U	0.84 U	29 U	24 U
Vinyl chloride	µg/kg	0.42 U	0.64 U	0.48 U	21 U	18 U
Xylenes (total)	µg/kg	0.60 U	R	0.69 UJ	1600	1300
Semi-Volatiles						
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	56 U	13 U	100 U	1000 U	510 U
2,4,5-Trichlorophenol	µg/kg	150 U	35 U	270 U	2700 U	1300 U
2,4,6-Trichlorophenol	µg/kg	52 U	13 U	95 U	960 U	480 U
2,4-Dichlorophenol	µg/kg	120 U	28 U	210 U	2200 U	1100 U
2,4-Dimethylphenol	µg/kg	120 U	28 U	210 U	2200 U	1100 U
2,4-Dinitrophenol	µg/kg	120 U	30 U	220 U	2300 U	1100 U
2,4-Dinitrotoluene	µg/kg	99 U	24 U	180 U	1800 U	920 U
2,6-Dinitrotoluene	µg/kg	120 U	30 U	220 U	2300 U	1100 U
2-Chloronaphthalene	µg/kg	2.6 U	0.64 U	4.8 U	48 U	24 U
2-Chlorophenol	µg/kg	48 U	12 U	88 U	880 U	440 U
2-Methylnaphthalene	µg/kg	84	23	530	600 J	1600
2-Methylphenol	µg/kg	64 U	16 U	120 U	1200 U	590 U
2-Nitroaniline	µg/kg	53 U	13 U	97 U	980 U	490 U
2-Nitrophenol	µg/kg	49 U	12 U	89 U	890 U	450 U
3&4-Methylphenol	µg/kg	120 U	28 U	210 U	2200 U	1100 U
3,3'-Dichlorobenzidine	µg/kg	110 U	25 U	190 U	1900 U	970 U
3-Nitroaniline	µg/kg	94 U	23 U	170 U	1700 U	860 U
4,6-Dinitro-2-methylphenol	µg/kg	54 U	13 U	98 U	990 U	500 U
4-Bromophenyl phenyl ether	µg/kg	76 U	18 U	140 U	1400 U	700 U
4-Chloro-3-methylphenol	µg/kg	120 U	30 U	220 U	2300 U	1100 U
4-Chloroaniline	µg/kg	99 U	24 U	180 U	1800 U	920 U
4-Chlorophenyl phenyl ether	µg/kg	76 U	18 U	140 U	1400 U	700 U
4-Nitroaniline	µg/kg	150 U	37 U	280 U	2800 U	1400 U
4-Nitrophenol	µg/kg	99 U	24 U	180 U	1800 U	920 U

Table 2

Analytical Results Summary
Test Pit Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-November 2017

	Sample Location:	**TP-9**	**TP-10**	**TP-11**	**TP-12**	**TP-12**
	Sample ID:	**S-38443-110917-BW-038**	**S-38443-110917-BW-036**	**S-38443-103117-BW-006**	**S-38443-110117-BW-009**	**S-38443-110117-BW-010**
	Sample Date:	**11/9/2017**	**11/9/2017**	**10/31/2017**	**11/1/2017**	**11/1/2017**
	Sample Depth:	**2-4 ft BGS**	**4-6 ft BGS**	**8-10 ft BGS**	**8-10 ft BGS**	**8-10 ft BGS Duplicate**
Parameters	**Units**					
Semi-Volatiles						
Acenaphthene	µg/kg	320	14	190	82 U	41 U
Acenaphthylene	µg/kg	2.0 U	7.0 J	53 J	38 U	19 U
Acetophenone	µg/kg	54 U	16 J	98 U	990 U	940 J
Anthracene	µg/kg	870	73	370	84 U	350 J
Atrazine	µg/kg	53 U	13 U	97 U	980 U	490 U
Benzaldehyde	µg/kg	70 U	17 U	130 U	1300 U	650 U
Benzo(a)anthracene	µg/kg	2000	370	1100	68 U	450
Benzo(a)pyrene	µg/kg	1000	310	1000	69 U	35 U
Benzo(b)fluoranthene	µg/kg	2100	560	1400	64 U	32 U
Benzo(g,h,i)perylene	µg/kg	960	240	780	38 U	19 U
Benzo(k)fluoranthene	µg/kg	1000	260	510	73 U	37 U
Biphenyl (1,1-Biphenyl)	µg/kg	27 J	13 J	95 J	380 U	190 U
bis(2-Chloroethoxy)methane	µg/kg	130 U	31 U	240 U	2400 U	1200 U
bis(2-Chloroethyl)ether	µg/kg	12 U	2.8 U	21 U	220 U	110 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	110 U	94 J	230 J	4400 U	4000
Butyl benzylphthalate (BBP)	µg/kg	58 U	14 U	110 U	1100 U	540 U
Caprolactam	µg/kg	220 U	52 U	400 U	4000 U	2000 U
Carbazole	µg/kg	420	47 J	290 U	2900 U	1500 U
Chrysene	µg/kg	2000	430	1200	120 U	610
Dibenz(a,h)anthracene	µg/kg	3.9 U	68	230	71 U	36 U
Dibenzofuran	µg/kg	240 J	40 J	220 J	71 U	470 J
Diethyl phthalate	µg/kg	150 J	23 U	530 J	1700 U	860 U
Dimethyl phthalate	µg/kg	99 U	24 U	180 U	1800 U	920 U
Di-n-butylphthalate (DBP)	µg/kg	88 U	21 U	160 U	1600 U	810 U
Di-n-octyl phthalate (DnOP)	µg/kg	46 U	11 U	84 U	850 U	430 U
Fluoranthene	µg/kg	5100	720	2300	1100	2100
Fluorene	µg/kg	320	16	180	57 U	920
Hexachlorobenzene	µg/kg	12 U	3.0 U	22 U	230 U	110 U
Hexachlorobutadiene	µg/kg	33 U	7.9 U	60 U	600 U	300 U
Hexachlorocyclopentadiene	µg/kg	47 U	11 U	87 U	870 U	440 U
Hexachloroethane	µg/kg	53 U	13 U	96 U	970 U	490 U
Indeno(1,2,3-cd)pyrene	µg/kg	810	220	650	38 U	19 U
Isophorone	µg/kg	76 U	18 U	140 U	1400 U	700 U
Naphthalene	µg/kg	180	29	400	510 J	3100 J
Nitrobenzene	µg/kg	13 U	3.1 U	24 U	240 U	120 U
N-Nitrosodi-n-propylamine	µg/kg	37 U	8.9 U	67 U	680 U	340 U
N-Nitrosodiphenylamine	µg/kg	120 U	30 U	220 U	2300 U	1100 U

Table 2

Analytical Results Summary
Test Pit Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-November 2017

	Sample Location:	**TP-9**	**TP-10**	**TP-11**	**TP-12**	**TP-12**
	Sample ID:	**S-38443-110917-BW-038**	**S-38443-110917-BW-036**	**S-38443-103117-BW-006**	**S-38443-110117-BW-009**	**S-38443-110117-BW-010**
	Sample Date:	**11/9/2017**	**11/9/2017**	**10/31/2017**	**11/1/2017**	**11/1/2017**
	Sample Depth:	**2-4 ft BGS**	**4-6 ft BGS**	**8-10 ft BGS**	**8-10 ft BGS**	**8-10 ft BGS Duplicate**
Parameters	**Units**					
Semi-Volatiles						
Pentachlorophenol	µg/kg	53 U	13 U	97 U	980 U	490 U
Phenanthrene	µg/kg	3600	450	1600	1700 J	4000 J
Phenol	µg/kg	43 U	10 U	310 J	790 U	390 J
Pyrene	µg/kg	4100	550	1900	1000	1900
Metals						
Aluminum	mg/kg	4700 J	7000 J	4300 J	1900 J	1800 J
Antimony	mg/kg	7.1 J	9.2 J	2.4 J	4.4 J	1.1 J
Arsenic	mg/kg	9.5 J	19 J	15	6.0	5.5
Barium	mg/kg	150 J	1600 J	960	150 J	200 J
Beryllium	mg/kg	0.82	3.1	0.80	0.49	0.46
Cadmium	mg/kg	1.7 J	8.8 J	1.2	0.55	0.43
Calcium	mg/kg	64000 J	43000 J	78000	3500	1400
Chromium	mg/kg	10 J	62 J	280	25	24
Cobalt	mg/kg	4.9 J	38 J	10	3.2	3.8
Copper	mg/kg	7100	870 J	1700	690	270
Iron	mg/kg	9900 J	24000 J	31000	21000	24000
Lead	mg/kg	130 J	1100	2000	270 J	250 J
Magnesium	mg/kg	21000	13000	40000	930	510
Manganese	mg/kg	330 J	550 J	380 J	190	160
Mercury	mg/kg	0.053 J	0.44	0.12	0.026 J	0.053 J
Nickel	mg/kg	29 J	94 J	120	70 J	49 J
Potassium	mg/kg	490 J	1100 J	630	330	280
Selenium	mg/kg	0.94 UJ	2.8 J	1.3	0.63 U	0.64 U
Silver	mg/kg	1.1 J	2.2 J	0.29	0.18	0.14 J
Sodium	mg/kg	120 U	440	170 U	150	140 U
Thallium	mg/kg	0.19 J	0.35 J	0.43	0.091 J	0.11 J
Vanadium	mg/kg	16 J	31 J	20	6.2	14
Zinc	mg/kg	520 J	2000 J	510	150	190
PCBs						
Aroclor-1016 (PCB-1016)	µg/kg	27 U	35 U	26 UJ	260 U	130 U
Aroclor-1221 (PCB-1221)	µg/kg	26 U	33 U	24 UJ	250 U	120 U
Aroclor-1232 (PCB-1232)	µg/kg	18 U	23 U	17 UJ	180 U	85 U
Aroclor-1242 (PCB-1242)	µg/kg	23 U	29 U	21 UJ	220 U	110 U
Aroclor-1248 (PCB-1248)	µg/kg	19 U	24 U	18 UJ	190 U	91 U
Aroclor-1254 (PCB-1254)	µg/kg	41 J	20 U	290 J	8400 J	2500 J
Aroclor-1260 (PCB-1260)	µg/kg	20 U	34 J	19 U	200 U	96 U

Table 2

Analytical Results Summary
Test Pit Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-November 2017

	Sample Location:	**TP-9**	**TP-10**	**TP-11**	**TP-12**	**TP-12**
	Sample ID:	**S-38443-110917-BW-038**	**S-38443-110917-BW-036**	**S-38443-103117-BW-006**	**S-38443-110117-BW-009**	**S-38443-110117-BW-010**
	Sample Date:	**11/9/2017**	**11/9/2017**	**10/31/2017**	**11/1/2017**	**11/1/2017**
	Sample Depth:	**2-4 ft BGS**	**4-6 ft BGS**	**8-10 ft BGS**	**8-10 ft BGS**	**8-10 ft BGS Duplicate**
Parameters	**Units**					
Pesticides						
4,4'-DDD	µg/kg	8.6 NJ	4.6 U	17 U	70 U	72 U
4,4'-DDE	µg/kg	2.8 U	1.7 U	16 NJ	25 U	26 U
4,4'-DDT	µg/kg	3.2 U	2.0 U	23 J	30 U	30 U
Aldrin	µg/kg	5.5 U	3.4 U	13 U	51 U	52 U
alpha-BHC	µg/kg	3.7 U	2.2 U	8.4 U	34 U	35 U
alpha-Chlordane	µg/kg	8.7 U	5.3 U	20 U	80 U	83 U
beta-BHC	µg/kg	9.0 U	5.4 U	20 U	82 U	85 U
delta-BHC	µg/kg	3.0 U	1.8 U	6.8 U	27 U	28 U
Dieldrin	µg/kg	2.1 U	1.3 U	4.7 U	19 U	20 U
Endosulfan I	µg/kg	3.0 U	1.8 U	6.8 U	27 U	28 U
Endosulfan II	µg/kg	4.1 U	2.5 U	9.4 U	38 U	39 U
Endosulfan sulfate	µg/kg	2.8 U	1.7 U	6.3 U	25 U	26 U
Endrin	µg/kg	3.2 U	2.0 U	7.3 U	30 U	30 U
Endrin aldehyde	µg/kg	5.1 J	2.5 U	9.4 U	38 U	39 U
Endrin ketone	µg/kg	2.5 U	1.5 U	5.8 U	23 U	24 U
gamma-BHC (lindane)	µg/kg	6.7 U	4.0 U	15 U	61 U	63 U
gamma-Chlordane	µg/kg	3.5 U	2.1 U	7.8 U	32 U	33 U
Heptachlor	µg/kg	1.8 U	1.1 U	4.1 U	16 U	17 U
Heptachlor epoxide	µg/kg	5.5 U	3.4 U	13 U	51 U	52 U
Methoxychlor	µg/kg	8.1 NJ	5.0 NJ	6.3 U	25 U	26 U
Toxaphene	µg/kg	85 U	52 U	190 U	780 U	800 U
Dioxins/Furans						
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	7.9 U	56	150	9.2 U	11 U
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	35	340	4500	350	550
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	11	250	130	8.2 J	9.0 J
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	9.4	110	390	31	53
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	0.80 J	12	4.5 J	0.55 U	1.3 J
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	2.3 J	170	17 J	5.8 J	6.7 J
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	0.38 J	8.9	0.23 U	1.2 J	1.9 J
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	1.1 J	53 J	14 J	2.2 J	2.5 J
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	2.0 J	17	16 J	4.7 J	4.8 J
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	0.12 U	0.98 U	1.7 U	0.31 U	0.31 U
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	1.1 J	25	9.8 J	3.6 J	5.3 J
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	0.87 J	36	2.5 J	0.66 J	0.75 J
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	1.2 U	10 J	5.5 J	6.5 J	6.0 J
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	0.90 J	75	7.5 J	1.2 J	1.2 J

Table 2

Analytical Results Summary
Test Pit Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-November 2017

	Sample Location:	**TP-9**	**TP-10**	**TP-11**	**TP-12**	**TP-12**
	Sample ID:	**S-38443-110917-BW-038**	**S-38443-110917-BW-036**	**S-38443-103117-BW-006**	**S-38443-110117-BW-009**	**S-38443-110117-BW-010**
	Sample Date:	**11/9/2017**	**11/9/2017**	**10/31/2017**	**11/1/2017**	**11/1/2017**
	Sample Depth:	**2-4 ft BGS**	**4-6 ft BGS**	**8-10 ft BGS**	**8-10 ft BGS**	**8-10 ft BGS Duplicate**
Parameters	**Units**					
Dioxins/Furans						
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	1.2 J	89	5.8 J	1.9 J	2.0 J
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	1.5 J	57	16	3.5	3.7
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	0.10 J	4.0	0.74 J	0.21 U	0.19 U
Total heptachlorodibenzofuran (HpCDF)	pg/g	23 J	320 J	350 J	20 J	24 J
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	21 J	220 J	730 J	66 J	110 J
Total hexachlorodibenzofuran (HxCDF)	pg/g	19 J	620 J	200 J	24 J	27 J
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	14 J	260 J	120 J	40 J	55 J
Total pentachlorodibenzofuran (PeCDF)	pg/g	27 J	1000 J	340 J	20 J	20 J
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	430 J	230 J	450 J	1700 J	610 J
Total tetrachlorodibenzofuran (TCDF)	pg/g	49 J	1900 J	650 J	37 J	43 J
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	6.5 J	230 J	28 J	6.1 J	7.2 J
General Chemistry						
Cyanide (total)	mg/kg	0.53 U	0.64 U	0.45 U	0.45 U	0.51 U

Notes:

J - Estimated concentration
NJ - Tentatively identified compound, estimated concentration
R - Rejected
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
- - Not applicable

Table 2

Analytical Results Summary
Test Pit Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-November 2017

	Sample Location:	**TP-13**	**TP-14**	**TP-15**	**TP-16**	**TP-17**
	Sample ID:	**S-38443-110117-BW-012**	**S-38443-103117-BW-004**	**S-38443-103017-BW-002**	**S-38443-103117-BW-008**	**S-38443-110217-BW-016**
	Sample Date:	**11/1/2017**	**10/31/2017**	**10/30/2017**	**10/31/2017**	**11/2/2017**
	Sample Depth:	**8-10 ft BGS**	**8-10 ft BGS**	**10-12 ft BGS**	**4-6 ft BGS**	**8-10 ft BGS**
Parameters	**Units**					
Volatiles						
1,1,1-Trichloroethane	µg/kg	77 U	0.39 UJ	R	0.30 U	0.49 U
1,1,2,2-Tetrachloroethane	µg/kg	66 U	R	R	0.34 UJ	0.55 U
1,1,2-Trichloroethane	µg/kg	63 U	R	R	0.50 U	0.83 U
1,1-Dichloroethane	µg/kg	85 U	0.56 UJ	R	0.43 U	0.70 U
1,1-Dichloroethene	µg/kg	99 U	0.92 UJ	R	0.70 U	1.1 U
1,2,4-Trichlorobenzene	µg/kg	71 U	R	R	0.31 U	0.51 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	130 U	R	R	0.88 U	1.4 U
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	63 U	R	R	0.45 U	0.74 U
1,2-Dichlorobenzene	µg/kg	49 U	R	R	0.28 U	0.47 U
1,2-Dichloroethane	µg/kg	82 U	0.49 UJ	R	0.37 U	0.62 U
1,2-Dichloropropane	µg/kg	82 U	0.53 UJ	R	0.40 U	0.66 U
1,3-Dichlorobenzene	µg/kg	100 U	R	R	0.37 U	0.62 U
1,4-Dichlorobenzene	µg/kg	74 U	R	R	0.45 U	0.74 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	140 U	4.9 J	4.0 J	1.6 U	2.7 U
2-Hexanone	µg/kg	240 U	R	R	0.75 U	1.2 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	110 U	R	R	1.1 U	1.9 U
Acetone	µg/kg	270 U	5.2 UJ	R	3.9 U	6.5 U
Benzene	µg/kg	66 U	0.54 UJ	R	0.41 U	0.68 U
Bromodichloromethane	µg/kg	49 U	0.56 UJ	R	0.43 U	0.70 U
Bromoform	µg/kg	63 U	R	R	0.52 U	0.85 U
Bromomethane (Methyl bromide)	µg/kg	77 UJ	1.0 UJ	R	0.76 UJ	1.3 UJ
Carbon disulfide	µg/kg	49 U	0.60 J	0.54 J	0.27 U	0.45 U
Carbon tetrachloride	µg/kg	74 U	0.43 UJ	R	0.32 U	0.53 U
Chlorobenzene	µg/kg	82 U	R	4.3 J	0.43 U	0.70 U
Chloroethane	µg/kg	77 U	0.65 UJ	R	0.49 U	0.81 U
Chloroform (Trichloromethane)	µg/kg	66 U	0.39 UJ	R	0.30 U	0.49 U
Chloromethane (Methyl chloride)	µg/kg	49 U	0.65 UJ	R	0.49 U	0.81 U
cis-1,2-Dichloroethene	µg/kg	96 U	0.48 UJ	R	0.36 U	0.60 U
cis-1,3-Dichloropropene	µg/kg	63 U	R	R	0.34 U	0.55 U
Cyclohexane	µg/kg	82 U	0.36 UJ	R	0.27 U	0.45 U
Dibromochloromethane	µg/kg	93 U	R	R	0.39 U	0.64 U
Dichlorodifluoromethane (CFC-12)	µg/kg	60 U	0.60 UJ	R	0.45 U	0.74 U
Ethylbenzene	µg/kg	96 U	R	R	0.35 U	0.57 U
Isopropyl benzene	µg/kg	93 U	R	R	0.26 U	0.43 U
Methyl acetate	µg/kg	210 U	2.0 UJ	R	1.5 U	2.5 U
Methyl cyclohexane	µg/kg	100 U	0.39 UJ	R	0.30 U	0.49 U
Methyl tert butyl ether (MTBE)	µg/kg	71 U	0.46 UJ	R	0.35 U	0.57 U

Table 2

Analytical Results Summary
Test Pit Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-November 2017

Sample Location:		**TP-13**	**TP-14**	**TP-15**	**TP-16**	**TP-17**
Sample ID:		**S-38443-110117-BW-012**	**S-38443-103117-BW-004**	**S-38443-103017-BW-002**	**S-38443-103117-BW-008**	**S-38443-110217-BW-016**
Sample Date:		**11/1/2017**	**10/31/2017**	**10/30/2017**	**10/31/2017**	**11/2/2017**
Sample Depth:		**8-10 ft BGS**	**8-10 ft BGS**	**10-12 ft BGS**	**4-6 ft BGS**	**8-10 ft BGS**
Parameters	**Units**					
Volatiles						
Methylene chloride	µg/kg	180 U	0.41 UJ	R	0.31 U	0.51 U
Styrene	µg/kg	27 U	R	R	0.35 U	0.57 U
Tetrachloroethene	µg/kg	58 U	R	R	0.48 U	0.79 U
Toluene	µg/kg	75 J	0.70 J	0.42 J	0.44 U	0.72 U
trans-1,2-Dichloroethene	µg/kg	96 U	0.65 UJ	R	0.49 U	0.81 U
trans-1,3-Dichloropropene	µg/kg	41 U	R	R	0.27 U	0.45 U
Trichloroethene	µg/kg	2400	0.70 UJ	R	0.53 U	0.87 U
Trichlorofluoromethane (CFC-11)	µg/kg	93 U	0.41 UJ	R	0.31 U	0.51 U
Trifluorotrichloroethane (CFC-113)	µg/kg	63 U	R	R	0.63 U	1.0 U
Vinyl chloride	µg/kg	47 U	0.48 UJ	R	0.36 U	0.60 U
Xylenes (total)	µg/kg	77 U	R	R	0.52 U	0.85 U
Semi-Volatiles						
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	11 U	12 U	11 U	10 U	11 U
2,4,5-Trichlorophenol	µg/kg	28 U	30 U	30 U	27 U	29 U
2,4,6-Trichlorophenol	µg/kg	9.9 U	11 U	11 U	9.4 U	10 U
2,4-Dichlorophenol	µg/kg	22 U	24 U	24 U	21 U	23 U
2,4-Dimethylphenol	µg/kg	22 U	33 J	24 U	21 U	23 U
2,4-Dinitrophenol	µg/kg	23 U	25 U	25 U	22 U	25 U
2,4-Dinitrotoluene	µg/kg	19 U	21 U	20 U	18 U	20 U
2,6-Dinitrotoluene	µg/kg	23 U	25 U	25 U	22 U	25 U
2-Chloronaphthalene	µg/kg	0.50 U	0.55 U	0.54 U	0.48 U	0.53 U
2-Chlorophenol	µg/kg	9.1 U	9.9 U	9.8 U	8.7 U	9.6 U
2-Methylnaphthalene	µg/kg	72	440	130	9.0	1100
2-Methylphenol	µg/kg	12 U	15 J	20 J	12 U	13 J
2-Nitroaniline	µg/kg	10 U	11 U	11 U	9.7 U	11 U
2-Nitrophenol	µg/kg	9.2 U	10 U	9.9 U	8.8 U	9.7 U
3&4-Methylphenol	µg/kg	22 U	29 J	28 J	21 U	23 U
3,3'-Dichlorobenzidine	µg/kg	20 U	22 U	21 U	19 U	21 U
3-Nitroaniline	µg/kg	18 U	19 U	19 U	17 U	19 U
4,6-Dinitro-2-methylphenol	µg/kg	10 U	11 U	11 U	9.8 U	11 U
4-Bromophenyl phenyl ether	µg/kg	14 U	16 U	15 U	14 U	15 U
4-Chloro-3-methylphenol	µg/kg	23 U	25 U	25 U	22 U	25 U
4-Chloroaniline	µg/kg	19 U	21 U	20 U	18 U	20 U
4-Chlorophenyl phenyl ether	µg/kg	14 U	16 U	15 U	14 U	15 U
4-Nitroaniline	µg/kg	29 U	32 U	31 U	28 U	31 U
4-Nitrophenol	µg/kg	19 U	21 U	20 U	18 U	20 U

Table 2

Analytical Results Summary
Test Pit Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-November 2017

	Sample Location:	**TP-13**	**TP-14**	**TP-15**	**TP-16**	**TP-17**
	Sample ID:	**S-38443-110117-BW-012**	**S-38443-103117-BW-004**	**S-38443-103017-BW-002**	**S-38443-103117-BW-008**	**S-38443-110217-BW-016**
	Sample Date:	**11/1/2017**	**10/31/2017**	**10/30/2017**	**10/31/2017**	**11/2/2017**
	Sample Depth:	**8-10 ft BGS**	**8-10 ft BGS**	**10-12 ft BGS**	**4-6 ft BGS**	**8-10 ft BGS**
Parameters	**Units**					
Semi-Volatiles						
Acenaphthene	µg/kg	0.85 U	43	23	0.81 U	44
Acenaphthylene	µg/kg	6.9 J	17	31	11	30
Acetophenone	µg/kg	29 J	43 J	19 J	9.8 U	96 J
Anthracene	µg/kg	12	27	36	16	95
Atrazine	µg/kg	10 U	11 U	11 U	9.7 U	11 U
Benzaldehyde	µg/kg	30 J	38 J	21 J	13 U	95 J
Benzo(a)anthracene	µg/kg	37	61	130	86	290
Benzo(a)pyrene	µg/kg	30	46	120	97	210
Benzo(b)fluoranthene	µg/kg	53	72	170	170	400
Benzo(g,h,i)perylene	µg/kg	24	44	98	48	110
Benzo(k)fluoranthene	µg/kg	15	21	77	67	140
Biphenyl (1,1-Biphenyl)	µg/kg	14 J	45 J	17 J	3.7 U	64
bis(2-Chloroethoxy)methane	µg/kg	24 U	27 U	26 U	23 U	26 U
bis(2-Chloroethyl)ether	µg/kg	2.2 U	2.4 U	2.4 U	2.1 U	2.3 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	54 U	67 J	75 J	45 U	57 U
Butyl benzylphthalate (BBP)	µg/kg	11 U	12 U	12 U	11 U	12 U
Caprolactam	µg/kg	41 U	45 U	44 U	39 U	43 U
Carbazole	µg/kg	30 U	33 U	32 U	29 U	54 J
Chrysene	µg/kg	54	89	160	91	310
Dibenz(a,h)anthracene	µg/kg	0.73 U	15	26	0.70 U	30
Dibenzofuran	µg/kg	12 J	120	40 J	0.70 U	330
Diethyl phthalate	µg/kg	18 U	19 U	19 U	17 U	19 U
Dimethyl phthalate	µg/kg	19 U	21 U	20 U	18 U	20 U
Di-n-butylphthalate (DBP)	µg/kg	17 U	18 U	18 U	28 J	18 U
Di-n-octyl phthalate (DnOP)	µg/kg	8.8 U	9.6 U	9.4 U	8.4 U	9.3 U
Fluoranthene	µg/kg	75	100	290	150	560
Fluorene	µg/kg	8.5	63	26	4.8 J	50
Hexachlorobenzene	µg/kg	2.3 U	2.5 U	2.5 UJ	2.2 U	2.5 U
Hexachlorobutadiene	µg/kg	6.2 U	6.8 U	6.7 U	5.9 U	6.6 U
Hexachlorocyclopentadiene	µg/kg	9.0 U	9.8 U	9.6 U	8.6 U	9.5 U
Hexachloroethane	µg/kg	10 U	11 U	11 U	9.6 U	11 U
Indeno(1,2,3-cd)pyrene	µg/kg	17	22	78	37	67
Isophorone	µg/kg	14 U	16 U	15 U	14 U	15 U
Naphthalene	µg/kg	77	230	76	8.0	640
Nitrobenzene	µg/kg	2.4 U	2.7 U	2.6 U	2.3 U	2.6 U
N-Nitrosodi-n-propylamine	µg/kg	7.0 U	7.6 U	7.5 U	6.7 U	7.4 U
N-Nitrosodiphenylamine	µg/kg	23 U	25 U	25 U	22 U	25 U

Table 2

Analytical Results Summary
Test Pit Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-November 2017

	Sample Location:	**TP-13**	**TP-14**	**TP-15**	**TP-16**	**TP-17**
	Sample ID:	**S-38443-110117-BW-012**	**S-38443-103117-BW-004**	**S-38443-103017-BW-002**	**S-38443-103117-BW-008**	**S-38443-110217-BW-016**
	Sample Date:	**11/1/2017**	**10/31/2017**	**10/30/2017**	**10/31/2017**	**11/2/2017**
	Sample Depth:	**8-10 ft BGS**	**8-10 ft BGS**	**10-12 ft BGS**	**4-6 ft BGS**	**8-10 ft BGS**
Parameters	**Units**					
Semi-Volatiles						
Pentachlorophenol	µg/kg	10 U	11 U	11 UJ	9.7 U	11 U
Phenanthrene	µg/kg	87	360	230	61	700
Phenol	µg/kg	8.1 U	8.9 U	27 J	7.7 U	8.6 U
Pyrene	µg/kg	77	110	270	170	550
Metals						
Aluminum	mg/kg	4000 J	5300 J	5800 J	3000 J	3100 J
Antimony	mg/kg	0.30 J	0.28 J	0.37 J	0.18 J	0.18 UJ
Arsenic	mg/kg	11	12	12	4.0	7.5
Barium	mg/kg	69 J	120	130	31	74
Beryllium	mg/kg	0.83	1.4	0.67	0.18	0.37
Cadmium	mg/kg	0.24	0.21	5.1	0.17	0.59
Calcium	mg/kg	33000	46000	65000	120000	140000
Chromium	mg/kg	26	11	12	6.0	7.5
Cobalt	mg/kg	6.6	7.1	5.3	3.2	3.9
Copper	mg/kg	51	27	72	14	19
Iron	mg/kg	21000	9300	10000	8400	6900
Lead	mg/kg	31 J	20	180	23	29
Magnesium	mg/kg	4400	21000	25000	45000	19000
Manganese	mg/kg	470	140 J	270 J	280 J	230
Mercury	mg/kg	0.082 J	0.15	0.064 J	0.039 J	0.26
Nickel	mg/kg	23 J	15	20	7.5	10
Potassium	mg/kg	310	1100	610	410	390
Selenium	mg/kg	2.6	2.4	4.3	0.70 U	1.1 J
Silver	mg/kg	0.071 J	0.044 J	0.062 J	0.024 J	0.043 J
Sodium	mg/kg	170 U	170 U	140 U	130 U	160 U
Thallium	mg/kg	0.39 J	0.51	0.40 J	0.098 J	0.34 J
Vanadium	mg/kg	14	22	19	11	13
Zinc	mg/kg	40	37	310	34	38
PCBs						
Aroclor-1016 (PCB-1016)	µg/kg	26 U	150 U	29 U	25 UJ	29 UJ
Aroclor-1221 (PCB-1221)	µg/kg	25 U	140 U	27 U	24 UJ	28 U
Aroclor-1232 (PCB-1232)	µg/kg	18 U	98 U	19 U	17 UJ	19 U
Aroclor-1242 (PCB-1242)	µg/kg	22 U	120 U	24 U	21 UJ	24 U
Aroclor-1248 (PCB-1248)	µg/kg	19 U	2700	20 U	18 UJ	21 U
Aroclor-1254 (PCB-1254)	µg/kg	33 J	86 U	28 J	15 U	17 U
Aroclor-1260 (PCB-1260)	µg/kg	20 U	110 U	22 U	19 U	22 U

Table 2

Analytical Results Summary
Test Pit Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-November 2017

	Sample Location:	**TP-13**	**TP-14**	**TP-15**	**TP-16**	**TP-17**
	Sample ID:	**S-38443-110117-BW-012**	**S-38443-103117-BW-004**	**S-38443-103017-BW-002**	**S-38443-103117-BW-008**	**S-38443-110217-BW-016**
	Sample Date:	**11/1/2017**	**10/31/2017**	**10/30/2017**	**10/31/2017**	**11/2/2017**
	Sample Depth:	**8-10 ft BGS**	**8-10 ft BGS**	**10-12 ft BGS**	**4-6 ft BGS**	**8-10 ft BGS**
Parameters	**Units**					
Pesticides						
4,4'-DDD	µg/kg	36 U	40 U	19 U	3.6 U	20 J
4,4'-DDE	µg/kg	13 U	15 U	6.9 U	1.3 U	7.3 U
4,4'-DDT	µg/kg	15 U	17 U	8.1 U	1.5 U	8.5 U
Aldrin	µg/kg	26 U	29 U	14 U	2.6 U	15 U
alpha-BHC	µg/kg	18 U	19 U	9.2 U	1.7 U	9.7 U
alpha-Chlordane	µg/kg	42 U	46 U	22 U	4.1 U	23 U
beta-BHC	µg/kg	43 U	47 U	22 U	4.2 U	24 U
delta-BHC	µg/kg	14 U	16 U	7.5 U	1.4 U	7.9 U
Dieldrin	µg/kg	9.9 U	11 U	5.2 U	0.97 U	5.4 U
Endosulfan I	µg/kg	14 U	16 U	7.5 U	1.4 U	7.9 U
Endosulfan II	µg/kg	20 U	22 U	10 U	1.9 U	11 U
Endosulfan sulfate	µg/kg	13 U	15 U	6.9 U	1.3 U	7.3 U
Endrin	µg/kg	15 U	17 U	8.1 U	1.5 U	8.5 U
Endrin aldehyde	µg/kg	20 U	22 U	10 U	1.9 U	11 U
Endrin ketone	µg/kg	12 U	13 U	6.3 U	1.2 U	6.7 U
gamma-BHC (lindane)	µg/kg	32 U	35 U	17 U	3.1 U	18 U
gamma-Chlordane	µg/kg	16 U	18 U	8.7 U	1.6 U	9.1 U
Heptachlor	µg/kg	8.5 U	9.4 U	4.5 U	0.84 U	4.7 U
Heptachlor epoxide	µg/kg	26 U	29 U	14 U	2.6 U	15 U
Methoxychlor	µg/kg	13 U	15 U	9.5 J	2.1 J	7.3 U
Toxaphene	µg/kg	410 U	450 U	210 U	40 U	220 U
Dioxins/Furans						
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	9.4 U	7.4 U	-	18	1.2 U
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	150	71	-	220	19
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	7.1	4.8 J	-	7.0	0.80 J
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	27	9.9	-	19	2.7 J
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	0.23 U	0.55 J	-	0.49 J	0.18 U
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	1.2 J	2.9 J	-	1.9 J	0.35 J
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	0.51 J	0.41 J	-	0.34 J	0.18 J
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	0.85 J	1.6 J	-	4.2 J	0.20 J
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	4.5 J	0.78 J	-	1.2 J	0.38 J
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	0.15 U	0.094 U	-	0.049 U	0.090 U
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	2.3 J	1.0 J	-	0.88 J	0.36 J
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	0.27 J	1.1 J	-	0.064 U	0.082 U
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	0.66 J	1.3 J	-	0.65 J	0.26 J
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	0.63 J	0.82 J	-	1.3 J	0.20 J

Table 2

Analytical Results Summary
Test Pit Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-November 2017

	Sample Location:	**TP-13**	**TP-14**	**TP-15**	**TP-16**	**TP-17**
	Sample ID:	**S-38443-110117-BW-012**	**S-38443-103117-BW-004**	**S-38443-103017-BW-002**	**S-38443-103117-BW-008**	**S-38443-110217-BW-016**
	Sample Date:	**11/1/2017**	**10/31/2017**	**10/30/2017**	**10/31/2017**	**11/2/2017**
	Sample Depth:	**8-10 ft BGS**	**8-10 ft BGS**	**10-12 ft BGS**	**4-6 ft BGS**	**8-10 ft BGS**
Parameters	**Units**					
Dioxins/Furans						
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	0.39 J	2.6 J	-	1.3 J	0.21 J
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	1.1	2.1 J	-	1.3	0.38 J
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	0.17 J	0.17 J	-	0.27 J	0.081 J
Total heptachlorodibenzofuran (HpCDF)	pg/g	18 J	11 J	-	23 J	1.7 J
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	51 J	19 J	-	35 J	5.2 J
Total hexachlorodibenzofuran (HxCDF)	pg/g	14 J	21 J	-	57 J	4.4 J
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	32 J	9.7 J	-	11 J	3.7 J
Total pentachlorodibenzofuran (PeCDF)	pg/g	12 J	43 J	-	140 J	7.7 J
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	31 J	250 J	-	16 J	8.9 J
Total tetrachlorodibenzofuran (TCDF)	pg/g	19 J	54 J	-	130 J	8.5 J
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	2.6 J	5.6 J	-	3.6 J	2.8 J
General Chemistry						
Cyanide (total)	mg/kg	0.50 U	0.50 U	0.53 U	0.49 U	0.54 J

Notes:

J - Estimated concentration
NJ - Tentatively identified compound, estimated concentration
R - Rejected
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
- - Not applicable

Table 2

Analytical Results Summary
Test Pit Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-November 2017

Sample Location:		**TT-31**	**TT-32**	**TT-33**	**TT-34**	**TT-35**
Sample ID:		**S-38443-110717-BW-028**	**S-38443-110717-BW-030**	**S-38443-110317-BW-020**	**S-38443-110717-BW-027**	**S-38443-110617-BW-025**
Sample Date:		**11/7/2017**	**11/7/2017**	**11/3/2017**	**11/7/2017**	**11/6/2017**
Sample Depth:		**14-15 ft BGS**	**12-14 ft BGS**	**12-14 ft BGS**	**8-10 ft BGS**	**12-14 ft BGS**
Parameters	**Units**					
Volatiles						
1,1,1-Trichloroethane	µg/kg	1.2 J	0.40 U	42 U	1.1 J	1.8 J
1,1,2,2-Tetrachloroethane	µg/kg	0.53 U	0.45 UJ	36 U	0.65 U	0.56 UJ
1,1,2-Trichloroethane	µg/kg	0.79 U	0.68 U	35 U	0.98 U	R
1,1-Dichloroethane	µg/kg	33	0.57 U	390	0.83 U	0.71 U
1,1-Dichloroethene	µg/kg	1.1 U	0.94 U	55 U	1.4 U	1.2 U
1,2,4-Trichlorobenzene	µg/kg	0.49 U	0.42 U	61 J	0.60 U	0.52 UJ
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	1.4 U	1.2 U	73 U	1.7 U	1.5 UJ
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	0.71 U	0.61 U	35 U	0.88 U	R
1,2-Dichlorobenzene	µg/kg	0.45 U	0.38 U	27 U	0.55 U	0.47 UJ
1,2-Dichloroethane	µg/kg	0.59 U	0.50 U	45 U	0.73 U	0.62 U
1,2-Dichloropropane	µg/kg	0.63 U	0.54 U	45 U	0.78 U	0.67 U
1,3-Dichlorobenzene	µg/kg	0.59 U	0.50 U	58 U	0.73 U	0.62 UJ
1,4-Dichlorobenzene	µg/kg	0.71 U	0.61 U	41 U	0.88 U	0.75 UJ
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	2.6 U	2.2 U	91 J	3.2 U	2.7 U
2-Hexanone	µg/kg	1.2 U	1.0 U	130 U	1.5 U	R
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	1.8 U	1.5 U	140 J	2.2 U	R
Acetone	µg/kg	22 U	17 U	150 U	17 U	27 U
Benzene	µg/kg	1.0 J	0.56 U	36 U	0.80 U	0.69 U
Bromodichloromethane	µg/kg	0.67 U	0.57 U	27 U	0.83 U	0.71 U
Bromoform	µg/kg	0.81 U	0.70 U	35 U	1.0 U	R
Bromomethane (Methyl bromide)	µg/kg	1.2 U	1.0 UJ	42 UJ	1.5 U	1.3 U
Carbon disulfide	µg/kg	0.43 U	0.37 U	27 U	0.53 U	2.6 J
Carbon tetrachloride	µg/kg	0.51 U	0.43 U	41 U	0.63 U	2.7 J
Chlorobenzene	µg/kg	0.67 U	0.57 U	45 U	0.83 U	R
Chloroethane	µg/kg	0.77 U	0.66 U	42 U	0.95 U	0.82 U
Chloroform (Trichloromethane)	µg/kg	0.47 U	0.40 U	36 U	0.58 U	0.49 U
Chloromethane (Methyl chloride)	µg/kg	0.77 U	0.66 U	27 U	0.95 U	0.82 U
cis-1,2-Dichloroethene	µg/kg	0.57 U	0.49 U	53 U	0.70 U	0.60 U
cis-1,3-Dichloropropene	µg/kg	0.53 U	0.45 U	35 U	0.65 U	0.56 U
Cyclohexane	µg/kg	0.43 U	0.37 U	45 J	0.53 U	0.45 U
Dibromochloromethane	µg/kg	0.61 U	0.52 U	52 U	0.75 U	R
Dichlorodifluoromethane (CFC-12)	µg/kg	0.71 U	0.61 U	33 U	0.88 U	0.75 U
Ethylbenzene	µg/kg	0.55 U	0.47 U	53 U	0.68 U	R
Isopropyl benzene	µg/kg	0.41 U	0.35 U	52 U	0.50 U	R
Methyl acetate	µg/kg	2.4 U	2.0 U	340 J	2.9 U	2.5 U
Methyl cyclohexane	µg/kg	0.47 U	0.40 U	130 J	0.58 U	0.49 U
Methyl tert butyl ether (MTBE)	µg/kg	0.55 U	0.47 U	39 U	0.68 U	0.58 U

Table 2

Analytical Results Summary
Test Pit Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-November 2017

Sample Location:		**TT-31**	**TT-32**	**TT-33**	**TT-34**	**TT-35**
Sample ID:		**S-38443-110717-BW-028**	**S-38443-110717-BW-030**	**S-38443-110317-BW-020**	**S-38443-110717-BW-027**	**S-38443-110617-BW-025**
Sample Date:		**11/7/2017**	**11/7/2017**	**11/3/2017**	**11/7/2017**	**11/6/2017**
Sample Depth:		**14-15 ft BGS**	**12-14 ft BGS**	**12-14 ft BGS**	**8-10 ft BGS**	**12-14 ft BGS**
Parameters	**Units**					
Volatiles						
Methylene chloride	µg/kg	6.3 U	6.3 U	99 U	9.8 U	6.7 U
Styrene	µg/kg	0.55 U	0.47 U	16 J	0.68 U	R
Tetrachloroethene	µg/kg	0.75 U	0.64 U	32 U	2.5 J	5.0 J
Toluene	µg/kg	0.80 J	0.89 J	74 U	0.85 U	R
trans-1,2-Dichloroethene	µg/kg	0.77 U	0.66 U	53 U	0.95 U	0.82 U
trans-1,3-Dichloropropene	µg/kg	0.43 U	0.37 U	23 U	0.53 U	R
Trichloroethene	µg/kg	0.83 U	0.71 U	56 U	1.0 U	17 J
Trichlorofluoromethane (CFC-11)	µg/kg	0.49 U	0.42 U	52 U	0.60 U	0.52 U
Trifluorotrichloroethane (CFC-113)	µg/kg	1.0 U	0.85 U	35 U	1.2 U	1.1 U
Vinyl chloride	µg/kg	0.57 U	0.49 U	26 U	0.70 U	0.60 U
Xylenes (total)	µg/kg	1.4 J	0.89 J	200 J	1.0 U	R
Semi-Volatiles						
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	24 U	58 U	110 U	48 U	47 U
2,4,5-Trichlorophenol	µg/kg	62 U	150 U	300 U	130 U	120 U
2,4,6-Trichlorophenol	µg/kg	22 U	54 U	110 U	45 U	44 U
2,4-Dichlorophenol	µg/kg	50 U	120 U	240 U	100 U	98 U
2,4-Dimethylphenol	µg/kg	50 U	120 U	240 U	100 U	98 U
2,4-Dinitrophenol	µg/kg	52 U	130 U	250 U	110 U	100 U
2,4-Dinitrotoluene	µg/kg	42 U	100 U	200 U	86 U	83 U
2,6-Dinitrotoluene	µg/kg	52 U	130 U	250 U	110 U	100 U
2-Chloronaphthalene	µg/kg	1.1 U	2.7 U	5.3 U	2.3 U	2.2 U
2-Chlorophenol	µg/kg	20 U	50 U	97 U	41 U	40 U
2-Methylnaphthalene	µg/kg	170	930	3600	380	140
2-Methylphenol	µg/kg	27 U	67 U	130 U	56 U	54 U
2-Nitroaniline	µg/kg	23 U	55 U	110 U	46 U	45 U
2-Nitrophenol	µg/kg	21 U	50 U	99 U	42 U	41 U
3&4-Methylphenol	µg/kg	50 U	120 U	490 J	100 U	98 U
3,3'-Dichlorobenzidine	µg/kg	45 U	110 U	210 U	91 U	88 U
3-Nitroaniline	µg/kg	40 U	97 U	190 U	81 U	78 U
4,6-Dinitro-2-methylphenol	µg/kg	23 U	56 U	110 U	46 U	45 U
4-Bromophenyl phenyl ether	µg/kg	32 U	79 U	150 U	66 U	64 U
4-Chloro-3-methylphenol	µg/kg	52 U	130 U	250 U	110 U	100 U
4-Chloroaniline	µg/kg	42 U	100 U	200 U	86 U	83 U
4-Chlorophenyl phenyl ether	µg/kg	32 U	79 U	150 U	66 U	64 U
4-Nitroaniline	µg/kg	65 U	160 U	310 U	130 U	130 U
4-Nitrophenol	µg/kg	42 U	100 U	200 U	86 U	83 U

Table 2

Analytical Results Summary
Test Pit Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-November 2017

	Sample Location:	**TT-31**	**TT-32**	**TT-33**	**TT-34**	**TT-35**
	Sample ID:	**S-38443-110717-BW-028**	**S-38443-110717-BW-030**	**S-38443-110317-BW-020**	**S-38443-110717-BW-027**	**S-38443-110617-BW-025**
	Sample Date:	**11/7/2017**	**11/7/2017**	**11/3/2017**	**11/7/2017**	**11/6/2017**
	Sample Depth:	**14-15 ft BGS**	**12-14 ft BGS**	**12-14 ft BGS**	**8-10 ft BGS**	**12-14 ft BGS**
Parameters	**Units**					
Semi-Volatiles						
Acenaphthene	µg/kg	1.9 U	4.6 U	110	43	3.7 U
Acenaphthylene	µg/kg	15 J	210	4.2 U	40	1.7 U
Acetophenone	µg/kg	190 J	290 J	110 U	74 J	49 J
Anthracene	µg/kg	51	220	110	97	26 J
Atrazine	µg/kg	23 U	55 U	110 U	46 U	45 U
Benzaldehyde	µg/kg	140 J	200 J	140 U	130 J	65 J
Benzo(a)anthracene	µg/kg	230	770	130	930	86
Benzo(a)pyrene	µg/kg	230	810	130	950	71
Benzo(b)fluoranthene	µg/kg	510	1100	150	1300	110
Benzo(g,h,i)perylene	µg/kg	290	930	4.2 U	840	72
Benzo(k)fluoranthene	µg/kg	150	380	8.1 U	420	33
Biphenyl (1,1-Biphenyl)	µg/kg	130	100 J	290 J	54 J	32 J
bis(2-Chloroethoxy)methane	µg/kg	55 U	130 U	260 U	110 U	110 U
bis(2-Chloroethyl)ether	µg/kg	5.0 U	12 U	24 U	10 U	9.8 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	2100	370 J	400 U	1300	170 J
Butyl benzylphthalate (BBP)	µg/kg	25 U	160 J	120 U	180 J	49 U
Caprolactam	µg/kg	92 U	220 U	440 U	190 U	180 U
Carbazole	µg/kg	67 U	160 U	320 U	140 U	130 U
Chrysene	µg/kg	410	870	190	950	130
Dibenz(a,h)anthracene	µg/kg	76	210	7.8 U	220	3.2 U
Dibenzofuran	µg/kg	150	340	230 J	130 J	55 J
Diethyl phthalate	µg/kg	43 J	97 U	190 U	95 J	78 U
Dimethyl phthalate	µg/kg	42 U	100 U	200 U	86 U	83 U
Di-n-butylphthalate (DBP)	µg/kg	37 U	260 J	540 J	95 J	73 U
Di-n-octyl phthalate (DnOP)	µg/kg	20 U	48 U	94 U	40 U	39 U
Fluoranthene	µg/kg	540	1400	320	1400	160
Fluorene	µg/kg	18	88	280	20 J	2.6 U
Hexachlorobenzene	µg/kg	5.2 U	13 U	25 U	11 U	10 U
Hexachlorobutadiene	µg/kg	14 U	34 U	67 U	28 U	27 U
Hexachlorocyclopentadiene	µg/kg	20 U	49 U	96 U	41 U	40 U
Hexachloroethane	µg/kg	22 U	55 U	110 U	45 U	44 U
Indeno(1,2,3-cd)pyrene	µg/kg	230	620	4.2 U	720	46
Isophorone	µg/kg	32 U	79 U	150 U	66 U	64 U
Naphthalene	µg/kg	270	730	3300	290	110
Nitrobenzene	µg/kg	5.5 U	13 U	26 U	11 U	11 U
N-Nitrosodi-n-propylamine	µg/kg	16 U	38 U	75 U	32 U	31 U
N-Nitrosodiphenylamine	µg/kg	52 U	130 U	250 U	110 U	100 U

Table 2

Analytical Results Summary
Test Pit Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-November 2017

	Sample Location:	**TT-31**	**TT-32**	**TT-33**	**TT-34**	**TT-35**
	Sample ID:	**S-38443-110717-BW-028**	**S-38443-110717-BW-030**	**S-38443-110317-BW-020**	**S-38443-110717-BW-027**	**S-38443-110617-BW-025**
	Sample Date:	**11/7/2017**	**11/7/2017**	**11/3/2017**	**11/7/2017**	**11/6/2017**
	Sample Depth:	**14-15 ft BGS**	**12-14 ft BGS**	**12-14 ft BGS**	**8-10 ft BGS**	**12-14 ft BGS**
Parameters	**Units**					
Semi-Volatiles						
Pentachlorophenol	µg/kg	23 U	55 U	110 U	46 U	45 U
Phenanthrene	µg/kg	470	1300	1000	520	230
Phenol	µg/kg	18 U	44 U	87 U	37 U	36 U
Pyrene	µg/kg	450	1200	260	1200	170
Metals						
Aluminum	mg/kg	16000	2700	2100 J	8200	6900
Antimony	mg/kg	97	3.5	0.40 J	120	6.3
Arsenic	mg/kg	20	6.4	8.3	21	27
Barium	mg/kg	2300	150	43	230	1300
Beryllium	mg/kg	0.59	0.47	0.20	1.4	2.7
Cadmium	mg/kg	30	3.8	0.29	22	7.9
Calcium	mg/kg	65000	27000	970	45000	20000
Chromium	mg/kg	170	34	19	57	55
Cobalt	mg/kg	19	4.8	2.4	35	17
Copper	mg/kg	8600	310	44	2500	480
Iron	mg/kg	58000	18000	20000	78000	30000
Lead	mg/kg	3500	440	23	3500	590
Magnesium	mg/kg	22000	9300	540	13000	7400
Manganese	mg/kg	700	220	450	930	450
Mercury	mg/kg	0.17	0.22	0.019 U	1.2	0.21
Nickel	mg/kg	150	29	15	360	73
Potassium	mg/kg	1700	290	180 U	700	650
Selenium	mg/kg	2.1	1.2	3.4	1.1	14
Silver	mg/kg	6.5	0.43	0.072 J	2.2	3.5
Sodium	mg/kg	1400	92 U	240	240	280
Thallium	mg/kg	0.19 J	0.15 J	0.11 J	0.24 J	0.93
Vanadium	mg/kg	30	10	4.5	21	51
Zinc	mg/kg	9000	280	26	1700	610
PCBs						
Aroclor-1016 (PCB-1016)	µg/kg	150 U	140 U	28 UJ	15000 U	29 U
Aroclor-1221 (PCB-1221)	µg/kg	140 U	140 U	27 U	14000 U	28 U
Aroclor-1232 (PCB-1232)	µg/kg	99 U	95 U	19 U	9900 U	19 U
Aroclor-1242 (PCB-1242)	µg/kg	1900	120 J	24 U	12000 U	51 J
Aroclor-1248 (PCB-1248)	µg/kg	110 U	100 U	20 U	11000 U	20 U
Aroclor-1254 (PCB-1254)	µg/kg	3800	2600	50 J	450000	300
Aroclor-1260 (PCB-1260)	µg/kg	110 U	110 U	21 U	11000 U	22 U

Table 2

Analytical Results Summary
Test Pit Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-November 2017

	Sample Location:	**TT-31**	**TT-32**	**TT-33**	**TT-34**	**TT-35**
	Sample ID:	**S-38443-110717-BW-028**	**S-38443-110717-BW-030**	**S-38443-110317-BW-020**	**S-38443-110717-BW-027**	**S-38443-110617-BW-025**
	Sample Date:	**11/7/2017**	**11/7/2017**	**11/3/2017**	**11/7/2017**	**11/6/2017**
	Sample Depth:	**14-15 ft BGS**	**12-14 ft BGS**	**12-14 ft BGS**	**8-10 ft BGS**	**12-14 ft BGS**
Parameters	**Units**					
Pesticides						
4,4'-DDD	µg/kg	41 U	78 U	40 U	2000 U	40 U
4,4'-DDE	µg/kg	15 U	29 U	14 U	740 U	15 U
4,4'-DDT	µg/kg	17 U	33 U	17 U	870 U	17 U
Aldrin	µg/kg	30 U	57 U	29 U	1500 U	29 U
alpha-BHC	µg/kg	20 U	38 U	19 U	990 U	20 U
alpha-Chlordane	µg/kg	47 U	90 U	46 U	2400 U	46 U
beta-BHC	µg/kg	48 U	93 U	47 U	2400 U	48 U
delta-BHC	µg/kg	16 U	31 U	16 U	810 U	16 U
Dieldrin	µg/kg	11 U	21 U	11 U	560 NJ	11 U
Endosulfan I	µg/kg	16 U	31 U	16 U	810 U	16 U
Endosulfan II	µg/kg	22 U	43 U	22 U	1100 U	22 U
Endosulfan sulfate	µg/kg	15 U	29 U	14 U	740 U	15 U
Endrin	µg/kg	49 NJ	46 NJ	17 U	1700 U	17 U
Endrin aldehyde	µg/kg	40 J	43 U	22 U	2200 U	22 UJ
Endrin ketone	µg/kg	14 U	26 U	13 U	680 U	13 U
gamma-BHC (lindane)	µg/kg	36 U	69 U	35 U	1800 U	35 U
gamma-Chlordane	µg/kg	19 U	36 U	18 U	930 U	18 U
Heptachlor	µg/kg	9.7 U	19 U	9.4 U	480 U	9.5 U
Heptachlor epoxide	µg/kg	34 NJ	57 U	29 U	1500 U	29 U
Methoxychlor	µg/kg	19 J	29 U	14 U	740 U	15 U
Toxaphene	µg/kg	460 U	880 U	450 U	23000 U	450 U
Dioxins/Furans						
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	2300	250	21	280	200
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	2200	1400	790 J	9400	3200
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	1800	170	14	540	400
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	700	240	140 J	1600	480
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	240	23 U	0.87 J	64	19
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	960	74	3.9 J	440	250
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	51 U	9.1 U	1.3 J	51 U	22
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	330	29 U	1.5 J	150	74
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	100	16 J	18	110	54
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	25 U	4.3 U	0.078 U	12 U	3.6 U
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	140	20 U	8.1	150	65
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	210	12 J	0.76 J	210	56
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	110 J	2.3 U	1.3 J	4.2 U	25
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	330	29 U	1.7 J	100	91

Table 2

Analytical Results Summary
Test Pit Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-November 2017

	Sample Location:	**TT-31**	**TT-32**	**TT-33**	**TT-34**	**TT-35**
	Sample ID:	**S-38443-110717-BW-028**	**S-38443-110717-BW-030**	**S-38443-110317-BW-020**	**S-38443-110717-BW-027**	**S-38443-110617-BW-025**
	Sample Date:	**11/7/2017**	**11/7/2017**	**11/3/2017**	**11/7/2017**	**11/6/2017**
	Sample Depth:	**14-15 ft BGS**	**12-14 ft BGS**	**12-14 ft BGS**	**8-10 ft BGS**	**12-14 ft BGS**
Parameters	**Units**					
Dioxins/Furans						
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	440	26 J	1.6 J	320	130
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	280	10 J	1.3 J	710	80
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	21 J	3.0 U	0.27 J	14	6.8
Total heptachlorodibenzofuran (HpCDF)	pg/g	2700 J	280 J	34 J	1000 J	580 J
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	1400 J	470 J	250 J	3600 J	910 J
Total hexachlorodibenzofuran (HxCDF)	pg/g	3200 J	250 J	21 J	1700 J	860 J
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	1600 J	170 J	130 J	1300 J	650 J
Total pentachlorodibenzofuran (PeCDF)	pg/g	4800 J	240 J	16 J	2800 J	1500 J
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	13000 J	5200 J	68 J	270000 J	1300 J
Total tetrachlorodibenzofuran (TCDF)	pg/g	8300 J	280 J	26 J	7100 J	2600 J
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	1400 J	16 J	6.9 J	430 J	400 J
General Chemistry						
Cyanide (total)	mg/kg	0.57 UJ	2.2 J	0.58 U	0.52 UJ	0.59 UJ

Notes:

J - Estimated concentration
NJ - Tentatively identified compound, estimated concentration
R - Rejected
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
- - Not applicable

Table 2

Analytical Results Summary
Test Pit Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-November 2017

	Sample Location:	**TT-36**	**TT-37**	**TT-39**	**TT-40**	**TT-43**
	Sample ID:	**S-38443-110617-BW-024**	**S-38443-110617-BW-023**	**S-38443-110217-BW-018**	**S-38443-110317-BW-022**	**S-38443-110817-BW-033**
	Sample Date:	**11/6/2017**	**11/6/2017**	**11/2/2017**	**11/3/2017**	**11/8/2017**
	Sample Depth:	**2-4 ft BGS**	**8-10 ft BGS**	**8-10 ft BGS**	**6-8 ft BGS**	**6-8 ft BGS**
Parameters	**Units**					
Volatiles						
1,1,1-Trichloroethane	µg/kg	69 J	0.45 U	0.34 U	160 U	59 U
1,1,2,2-Tetrachloroethane	µg/kg	47 U	R	0.39 U	140 U	50 UJ
1,1,2-Trichloroethane	µg/kg	45 U	0.77 U	0.58 U	130 U	48 U
1,1-Dichloroethane	µg/kg	60 U	0.65 U	0.49 U	180 U	65 U
1,1-Dichloroethene	µg/kg	70 U	1.1 U	0.81 U	210 U	75 U
1,2,4-Trichlorobenzene	µg/kg	83 J	R	0.36 U	150 U	54 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	93 U	R	1.0 U	280 U	100 U
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	45 U	0.69 U	0.52 U	130 U	48 U
1,2-Dichlorobenzene	µg/kg	250 J	R	0.33 U	100 U	38 U
1,2-Dichloroethane	µg/kg	58 U	0.57 U	0.43 U	170 U	63 U
1,2-Dichloropropane	µg/kg	58 U	0.61 U	0.46 U	170 U	63 U
1,3-Dichlorobenzene	µg/kg	74 U	R	0.43 U	220 U	79 U
1,4-Dichlorobenzene	µg/kg	12000	R	0.52 U	160 U	56 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	1900	2.5 U	1.9 U	290 U	100 U
2-Hexanone	µg/kg	170 UJ	1.1 U	0.87 U	490 UJ	180 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	940 J	1.8 U	1.3 U	230 UJ	84 U
Acetone	µg/kg	190 U	17 U	4.6 U	560 U	200 U
Benzene	µg/kg	47 U	0.63 U	0.48 U	140 U	50 U
Bromodichloromethane	µg/kg	35 U	0.65 U	0.49 U	100 U	38 U
Bromoform	µg/kg	45 U	0.79 U	0.60 U	130 U	48 U
Bromomethane (Methyl bromide)	µg/kg	54 U	1.2 U	0.88 UJ	160 U	59 UJ
Carbon disulfide	µg/kg	35 U	0.41 U	0.31 U	100 U	38 U
Carbon tetrachloride	µg/kg	52 U	0.49 U	0.37 U	160 U	56 U
Chlorobenzene	µg/kg	170 J	0.65 U	0.49 U	170 U	63 U
Chloroethane	µg/kg	54 U	0.75 U	0.57 U	160 U	59 U
Chloroform (Trichloromethane)	µg/kg	47 U	0.45 U	0.34 U	140 U	50 U
Chloromethane (Methyl chloride)	µg/kg	35 U	0.75 U	0.57 U	100 U	38 U
cis-1,2-Dichloroethene	µg/kg	68 U	0.55 U	0.42 U	200 U	1000
cis-1,3-Dichloropropene	µg/kg	45 U	0.51 U	0.39 U	130 U	48 U
Cyclohexane	µg/kg	160 J	0.41 U	0.31 U	170 U	63 U
Dibromochloromethane	µg/kg	66 U	0.59 U	0.45 U	200 U	71 U
Dichlorodifluoromethane (CFC-12)	µg/kg	43 U	0.69 U	0.52 U	130 U	46 U
Ethylbenzene	µg/kg	2200	0.53 U	0.40 U	200 U	73 U
Isopropyl benzene	µg/kg	430 J	0.39 U	0.30 U	200 U	71 U
Methyl acetate	µg/kg	240 J	2.3 U	1.8 U	430 U	160 U
Methyl cyclohexane	µg/kg	380 J	1.0 J	0.34 U	210 U	84 J
Methyl tert butyl ether (MTBE)	µg/kg	50 U	0.53 U	0.40 U	150 U	54 U

Table 2

Analytical Results Summary
Test Pit Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-November 2017

Sample Location:		**TT-36**	**TT-37**	**TT-39**	**TT-40**	**TT-43**
Sample ID:		**S-38443-110617-BW-024**	**S-38443-110617-BW-023**	**S-38443-110217-BW-018**	**S-38443-110317-BW-022**	**S-38443-110817-BW-033**
Sample Date:		**11/6/2017**	**11/6/2017**	**11/2/2017**	**11/3/2017**	**11/8/2017**
Sample Depth:		**2-4 ft BGS**	**8-10 ft BGS**	**8-10 ft BGS**	**6-8 ft BGS**	**6-8 ft BGS**
Parameters	**Units**					
Volatiles						
Methylene chloride	µg/kg	130 U	5.1 U	0.36 U	370 U	560
Styrene	µg/kg	19 U	0.53 U	0.40 U	57 U	21 U
Tetrachloroethene	µg/kg	180 J	0.96 J	0.55 U	120 U	44 U
Toluene	µg/kg	1600	0.73 J	0.51 U	140 U	110 J
trans-1,2-Dichloroethene	µg/kg	68 U	0.75 U	0.57 U	200 U	73 U
trans-1,3-Dichloropropene	µg/kg	29 U	0.41 U	0.31 U	86 U	31 U
Trichloroethene	µg/kg	72 U	0.81 U	0.61 U	210 U	5200
Trichlorofluoromethane (CFC-11)	µg/kg	79 J	0.47 U	0.36 U	200 U	71 U
Trifluorotrichloroethane (CFC-113)	µg/kg	45 U	0.97 U	0.73 U	130 U	48 U
Vinyl chloride	µg/kg	33 U	0.55 U	0.42 U	98 U	36 U
Xylenes (total)	µg/kg	19000	0.79 U	0.60 U	160 J	230 J
Semi-Volatiles						
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	290 U	28 U	11 U	110 U	130 U
2,4,5-Trichlorophenol	µg/kg	770 U	74 U	29 U	290 U	350 U
2,4,6-Trichlorophenol	µg/kg	280 U	26 U	10 U	100 U	130 U
2,4-Dichlorophenol	µg/kg	620 U	59 U	23 U	230 U	280 U
2,4-Dimethylphenol	µg/kg	620 U	100 J	23 U	230 U	280 U
2,4-Dinitrophenol	µg/kg	650 U	62 U	25 U	240 U	300 U
2,4-Dinitrotoluene	µg/kg	530 U	50 U	20 U	200 U	240 U
2,6-Dinitrotoluene	µg/kg	650 U	62 U	25 U	240 U	300 U
2-Chloronaphthalene	µg/kg	14 U	1.3 U	0.53 U	5.2 U	6.3 U
2-Chlorophenol	µg/kg	250 U	24 U	9.6 U	95 U	120 U
2-Methylnaphthalene	µg/kg	9300	2200	5.3 J	8800	460
2-Methylphenol	µg/kg	340 U	42 J	13 U	130 U	160 U
2-Nitroaniline	µg/kg	280 U	27 U	11 U	110 U	130 U
2-Nitrophenol	µg/kg	260 U	24 U	9.7 U	96 U	120 U
3&4-Methylphenol	µg/kg	620 U	59 U	23 U	230 U	280 U
3,3'-Dichlorobenzidine	µg/kg	560 U	53 U	21 U	210 U	250 U
3-Nitroaniline	µg/kg	500 U	47 U	19 U	190 U	230 U
4,6-Dinitro-2-methylphenol	µg/kg	280 U	27 U	11 U	110 U	130 U
4-Bromophenyl phenyl ether	µg/kg	400 U	38 U	15 U	150 U	180 U
4-Chloro-3-methylphenol	µg/kg	650 U	62 U	25 U	240 U	300 U
4-Chloroaniline	µg/kg	530 U	50 U	20 U	200 U	240 U
4-Chlorophenyl phenyl ether	µg/kg	400 U	38 U	15 U	150 U	180 U
4-Nitroaniline	µg/kg	800 U	77 U	30 U	300 U	370 U
4-Nitrophenol	µg/kg	530 U	50 U	20 U	200 U	240 U

Table 2

Analytical Results Summary
Test Pit Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-November 2017

	Sample Location:	**TT-36**	**TT-37**	**TT-39**	**TT-40**	**TT-43**
	Sample ID:	**S-38443-110617-BW-024**	**S-38443-110617-BW-023**	**S-38443-110217-BW-018**	**S-38443-110317-BW-022**	**S-38443-110817-BW-033**
	Sample Date:	**11/6/2017**	**11/6/2017**	**11/2/2017**	**11/3/2017**	**11/8/2017**
	Sample Depth:	**2-4 ft BGS**	**8-10 ft BGS**	**8-10 ft BGS**	**6-8 ft BGS**	**6-8 ft BGS**
Parameters	**Units**					
Semi-Volatiles						
Acenaphthene	µg/kg	760	84	23	360	770
Acenaphthylene	µg/kg	230	43	13	4.1 U	95
Acetophenone	µg/kg	3900	27 U	11 U	110 U	130 U
Anthracene	µg/kg	490	110	91	9.0 U	2000
Atrazine	µg/kg	280 U	27 U	11 U	110 U	130 U
Benzaldehyde	µg/kg	370 U	190 J	14 U	140 U	170 U
Benzo(a)anthracene	µg/kg	430	250	270	82	4900
Benzo(a)pyrene	µg/kg	230	180	210	110	4200
Benzo(b)fluoranthene	µg/kg	350	310	290	110	6100
Benzo(g,h,i)perylene	µg/kg	210	280	150	4.1 U	3300
Benzo(k)fluoranthene	µg/kg	110 J	55	100	7.9 U	2100
Biphenyl (1,1-Biphenyl)	µg/kg	1300 J	330	4.1 U	1600	49 U
bis(2-Chloroethoxy)methane	µg/kg	680 U	65 U	26 U	260 U	310 U
bis(2-Chloroethyl)ether	µg/kg	62 U	5.9 U	2.3 U	23 U	28 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	5300	56 U	58 U	520 U	380 J
Butyl benzylphthalate (BBP)	µg/kg	1700 J	29 U	12 U	120 U	140 U
Caprolactam	µg/kg	1100 U	110 U	43 U	430 U	520 U
Carbazole	µg/kg	840 U	79 U	32 U	310 U	860
Chrysene	µg/kg	520	330	270	120	4800
Dibenz(a,h)anthracene	µg/kg	20 U	1.9 U	38	7.7 U	680
Dibenzofuran	µg/kg	1000 J	590	16 J	320 J	600 J
Diethyl phthalate	µg/kg	500 U	47 U	19 U	190 U	430 J
Dimethyl phthalate	µg/kg	530 U	50 U	20 U	200 U	240 U
Di-n-butylphthalate (DBP)	µg/kg	460 U	44 U	18 U	170 U	320 J
Di-n-octyl phthalate (DnOP)	µg/kg	240 U	23 U	9.3 U	92 U	110 U
Fluoranthene	µg/kg	1500	390	700	260	12000
Fluorene	µg/kg	1100	100	31	600	750
Hexachlorobenzene	µg/kg	65 U	6.2 U	2.5 U	24 U	30 U
Hexachlorobutadiene	µg/kg	170 U	16 U	6.6 U	65 U	79 U
Hexachlorocyclopentadiene	µg/kg	250 U	24 U	9.5 U	94 U	110 U
Hexachloroethane	µg/kg	280 U	26 U	11 U	100 U	130 U
Indeno(1,2,3-cd)pyrene	µg/kg	11 U	97	130	4.1 U	2600
Isophorone	µg/kg	400 U	38 U	15 U	150 U	180 U
Naphthalene	µg/kg	3800	1500	6.4 J	11000	470
Nitrobenzene	µg/kg	68 U	6.5 U	2.6 U	26 U	31 U
N-Nitrosodi-n-propylamine	µg/kg	190 U	19 U	7.4 U	73 U	89 U
N-Nitrosodiphenylamine	µg/kg	650 U	62 U	25 U	240 U	300 U

Table 2

Analytical Results Summary
Test Pit Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-November 2017

	Sample Location:	**TT-36**	**TT-37**	**TT-39**	**TT-40**	**TT-43**
	Sample ID:	**S-38443-110617-BW-024**	**S-38443-110617-BW-023**	**S-38443-110217-BW-018**	**S-38443-110317-BW-022**	**S-38443-110817-BW-033**
	Sample Date:	**11/6/2017**	**11/6/2017**	**11/2/2017**	**11/3/2017**	**11/8/2017**
	Sample Depth:	**2-4 ft BGS**	**8-10 ft BGS**	**8-10 ft BGS**	**6-8 ft BGS**	**6-8 ft BGS**
Parameters	**Units**					
Semi-Volatiles						
Pentachlorophenol	µg/kg	280 U	27 U	11 U	110 U	130 U
Phenanthrene	µg/kg	3800	1500	400	1300	7800
Phenol	µg/kg	1400 J	21 U	8.6 U	85 U	220 J
Pyrene	µg/kg	1600	370	560	220	9700
Metals						
Aluminum	mg/kg	6900	6400	10000 J	1900 J	7200
Antimony	mg/kg	8.2	0.78	0.18 UJ	1.2 J	38 J
Arsenic	mg/kg	29	29	7.5	12	15
Barium	mg/kg	1600	230	130	67	1100
Beryllium	mg/kg	0.71	2.1	0.73	0.31	1.1
Cadmium	mg/kg	54	3.4	0.29	1.9	5.6
Calcium	mg/kg	10000	8200	49000	1200	70000
Chromium	mg/kg	380	8.6	14	18	52
Cobalt	mg/kg	240	8.3	6.7	3.5	15
Copper	mg/kg	1300	180	20	370	1000
Iron	mg/kg	210000	21000	17000	18000	27000
Lead	mg/kg	920	79	47	100	2200
Magnesium	mg/kg	4300	3100	21000	600	32000
Manganese	mg/kg	1600	120	450	600	480
Mercury	mg/kg	0.035 J	0.025 U	0.13	0.031 J	0.35
Nickel	mg/kg	420	27	16	17	60
Potassium	mg/kg	2600	960	1100	180 U	800
Selenium	mg/kg	3.7	10	0.73 J	1.3	1.4
Silver	mg/kg	0.71	0.067 U	0.075 J	0.12 J	1.8
Sodium	mg/kg	3000	270	91 U	65 U	340
Thallium	mg/kg	0.46 J	0.75	0.23 J	0.22 J	0.31 J
Vanadium	mg/kg	36	23	23	5.0	21
Zinc	mg/kg	1800	44	150	310	1700
PCBs						
Aroclor-1016 (PCB-1016)	µg/kg	29 U	28 U	27 UJ	27 UJ	270 U
Aroclor-1221 (PCB-1221)	µg/kg	28 U	27 U	26 U	26 U	260 U
Aroclor-1232 (PCB-1232)	µg/kg	20 U	19 U	18 U	18 U	180 U
Aroclor-1242 (PCB-1242)	µg/kg	620	24 U	23 U	23 U	220 U
Aroclor-1248 (PCB-1248)	µg/kg	21 U	20 U	19 U	19 U	8600
Aroclor-1254 (PCB-1254)	µg/kg	1000	19 J	16 U	380	160 U
Aroclor-1260 (PCB-1260)	µg/kg	22 U	21 U	21 U	20 U	540 J

Table 2

Analytical Results Summary
Test Pit Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-November 2017

	Sample Location:	**TT-36**	**TT-37**	**TT-39**	**TT-40**	**TT-43**
	Sample ID:	**S-38443-110617-BW-024**	**S-38443-110617-BW-023**	**S-38443-110217-BW-018**	**S-38443-110317-BW-022**	**S-38443-110817-BW-033**
	Sample Date:	**11/6/2017**	**11/6/2017**	**11/2/2017**	**11/3/2017**	**11/8/2017**
	Sample Depth:	**2-4 ft BGS**	**8-10 ft BGS**	**8-10 ft BGS**	**6-8 ft BGS**	**6-8 ft BGS**
Parameters	**Units**					
Pesticides						
4,4'-DDD	µg/kg	21 U	79 U	20 U	40 U	74 U
4,4'-DDE	µg/kg	7.5 U	29 U	7.3 U	14 U	27 U
4,4'-DDT	µg/kg	8.7 U	33 U	8.5 U	17 U	38 NJ
Aldrin	µg/kg	15 U	57 U	15 U	29 U	54 U
alpha-BHC	µg/kg	10 U	38 U	9.7 U	19 U	36 U
alpha-Chlordane	µg/kg	24 U	91 U	23 U	46 U	85 U
beta-BHC	µg/kg	24 U	93 U	24 U	47 U	88 U
delta-BHC	µg/kg	8.1 U	31 U	7.9 U	16 U	29 U
Dieldrin	µg/kg	5.6 U	21 U	5.5 U	11 U	20 U
Endosulfan I	µg/kg	8.1 U	31 U	7.9 U	16 U	29 U
Endosulfan II	µg/kg	11 U	43 U	11 U	22 U	40 U
Endosulfan sulfate	µg/kg	7.5 U	29 U	7.3 U	14 U	27 U
Endrin	µg/kg	8.7 U	33 U	8.5 U	17 U	31 U
Endrin aldehyde	µg/kg	15 NJ	43 U	11 U	22 U	54 J
Endrin ketone	µg/kg	6.8 U	26 U	6.7 U	13 U	25 U
gamma-BHC (lindane)	µg/kg	18 U	69 U	18 U	35 U	65 U
gamma-Chlordane	µg/kg	9.3 U	36 U	9.1 U	18 U	34 U
Heptachlor	µg/kg	4.9 U	19 U	4.7 U	9.4 U	18 U
Heptachlor epoxide	µg/kg	15 U	57 U	15 U	29 U	54 U
Methoxychlor	µg/kg	12 J	29 U	7.3 U	14 U	27 U
Toxaphene	µg/kg	230 U	880 U	220 U	440 U	830 U
Dioxins/Furans						
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	26 U	13	2.5 U	13	330
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	440	92	28	160	1400
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	15 U	7.8 U	4.7 J	12	410
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	140	17	4.8 J	23	300
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	10 U	1.2 U	0.61 J	0.85 J	17
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	6.9 U	1.7 U	4.2 J	4.2 J	130
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	11 U	0.20 U	0.41 J	0.43 J	9.3
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	5.6 U	1.2 U	1.9 J	1.7 J	59 J
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	42 J	1.1 J	1.5 J	3.0 J	35
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	5.1 U	0.17 U	0.21 J	0.047 U	3.8 U
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	63	1.2 U	1.8 J	2.2 J	30
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	8.6 J	0.39 J	0.80 J	1.1 J	24
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	50 J	0.71 J	1.2 J	0.52 J	10 J
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	8.2 U	1.0 U	2.1 J	1.5 J	47

Table 2

Analytical Results Summary
Test Pit Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-November 2017

	Sample Location:	**TT-36**	**TT-37**	**TT-39**	**TT-40**	**TT-43**
	Sample ID:	**S-38443-110617-BW-024**	**S-38443-110617-BW-023**	**S-38443-110217-BW-018**	**S-38443-110317-BW-022**	**S-38443-110817-BW-033**
	Sample Date:	**11/6/2017**	**11/6/2017**	**11/2/2017**	**11/3/2017**	**11/8/2017**
	Sample Depth:	**2-4 ft BGS**	**8-10 ft BGS**	**8-10 ft BGS**	**6-8 ft BGS**	**6-8 ft BGS**
Parameters	**Units**					
Dioxins/Furans						
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	8.6 J	0.69 J	2.2 J	2.5 J	55
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	25 J	1.3 J	0.61 J	3.8	28
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	2.0 U	0.33 U	0.23 J	0.21 J	5.7
Total heptachlorodibenzofuran (HpCDF)	pg/g	36 J	13 J	8.1 J	27 J	880 J
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	340 J	29 J	9.5 J	46 J	600 J
Total hexachlorodibenzofuran (HxCDF)	pg/g	51 J	12 J	19 J	28 J	830 J
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	720 J	9.1 J	14 J	22 J	360 J
Total pentachlorodibenzofuran (PeCDF)	pg/g	68 J	16 J	24 J	33 J	1300 J
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	670 J	37 J	21 J	110 J	2500 J
Total tetrachlorodibenzofuran (TCDF)	pg/g	120 J	19 J	22 J	37 J	1900 J
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	140 J	3.1 J	5.8 J	3.4 J	160 J
General Chemistry						
Cyanide (total)	mg/kg	14 J	0.53 UJ	0.54 U	0.53 J	0.52 U

Notes:

J - Estimated concentration
NJ - Tentatively identified compound, estimated concentration
R - Rejected
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
- - Not applicable

Table 3

Analytical Methods
Test Pit Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-November 2017

Parameter	Method	Matrix	Holding Time	
			Collection to Extraction (Days)	Collection or Extraction to Analysis (Days)
Volatile Organic Compounds (VOCs)	SW-846 8260B	Soil	48 hours	14
Semi-Volatile Organic Compounds (SVOCs)	SW-846 8270C	Soil	14	40
Organochlorine Pesticides	SW-846 8081A	Soil	14	40
Polychlorinated Biphenyls (PCBs)	SW-846 8082A	Soil	14	40
Dioxins & Furans	SW-846 8290A	Soil	30	45
Metals	SW-846 6020	Soil	-	180
Mercury	SW-846 7471A	Soil	-	28
Cyanide	SW-846 9012B	Soil	-	14

Notes:

SW-846 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, 1986, with subsequent revisic
\- - Not applicable

Table 4

Qualified Sample Results Due to Outlying Continuing Calibration Results
Test Pit Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-November 2017

Parameter	Analyte	Calibration Date (mm/dd/yyyy)	%D	Associated Sample ID	Qualified Result	Units
VOCs	1,1,2,2-Tetrachloroethane	11/06/2017	33.5	S-38443-103017-BW-001	0.31 UJ	µg/Kg
				S-38443-103117-BW-003	0.72 UJ	µg/Kg
				S-38443-103117-BW-004	0.44 UJ	µg/Kg
				S-38443-103117-BW-005	0.92 UJ	µg/Kg
				S-38443-103117-BW-006	0.45 UJ	µg/Kg
				S-38443-103117-BW-007	0.35 UJ	µg/Kg
				S-38443-103117-BW-008	0.34 UJ	µg/Kg
VOCs	Bromomethane (Methyl bromide)	11/06/2017	25.4	S-38443-103017-BW-001	0.70 UJ	µg/Kg
				S-38443-103117-BW-003	1.6 UJ	µg/Kg
				S-38443-103117-BW-004	1.0 UJ	µg/Kg
				S-38443-103117-BW-005	2.1 UJ	µg/Kg
				S-38443-103117-BW-006	1.0 UJ	µg/Kg
				S-38443-103117-BW-007	0.79 UJ	µg/Kg
				S-38443-103117-BW-008	0.76 UJ	µg/Kg
VOCs	Bromomethane (Methyl bromide)	11/07/2017	25.2	S-38443-110117-BW-009	35 UJ	µg/Kg
				S-38443-110117-BW-010	29 UJ	µg/Kg
				S-38443-110117-BW-012	77 UJ	µg/Kg
				S-38443-110117-BW-013	0.99 UJ	µg/Kg
				S-38443-110217-BW-015	0.84 UJ	µg/Kg
				S-38443-110217-BW-016	1.3 UJ	µg/Kg
				S-38443-110217-BW-017	0.88 UJ	µg/Kg
				S-38443-110217-BW-018	0.88 UJ	µg/Kg
VOCs	Bromomethane (Methyl bromide)	11/09/2017	26.3	S-38443-110317-BW-021	2.2 UJ	µg/Kg
VOCs	Bromomethane (Methyl bromide)	11/11/2017	25.4	S-38443-110317-BW-020	42 UJ	µg/Kg
VOCs	2-Hexanone	11/13/2017	48	S-38443-110317-BW-022	490 UJ	µg/Kg
				S-38443-110617-BW-024	170 UJ	µg/Kg

Table 4

Qualified Sample Results Due to Outlying Continuing Calibration Results
Test Pit Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-November 2017

Parameter	Analyte	Calibration Date (mm/dd/yyyy)	%D	Associated Sample ID	Qualified Result	Units
VOCs	4-Methyl-2-pentanone	11/13/2017	43	S-38443-110317-BW-022	230 UJ	µg/Kg
				S-38443-110617-BW-024	940 J	µg/Kg
VOCs	1,1,2,2-Tetrachloroethane	11/07/2017	32.6	S-38443-103017-BW-002	0.32 UJ	µg/Kg
VOCs	1,1,2,2-Tetrachloroethane	11/16/2017	29	S-38443-110817-BW-031	59 UJ	µg/Kg
				S-38443-110817-BW-032	37 UJ	µg/Kg
				S-38443-110817-BW-033	50 UJ	µg/Kg
VOCs	Bromomethane (Methyl bromide)	11/16/2017	32	S-38443-110817-BW-031	69 UJ	µg/Kg
				S-38443-110817-BW-032	43 UJ	µg/Kg
				S-38443-110817-BW-033	59 UJ	µg/Kg
VOCs	1,1,2,2-Tetrachloroethane	11/13/2017	28	S-38443-110917-BW-034	0.41 UJ	µg/Kg
				S-38443-110917-BW-035	0.40 UJ	µg/Kg
				S-38443-110917-BW-036	0.59 UJ	µg/Kg
				S-38443-110917-BW-038	0.39 UJ	µg/Kg
				S-38443-110917-BW-040	0.33 UJ	µg/Kg
				S-38443-110717-BW-029	0.48 UJ	µg/Kg
				S-38443-110717-BW-030	0.45 UJ	µg/Kg
VOCs	Bromomethane (Methyl bromide)	11/13/2017	27	S-38443-110917-BW-034	0.94 UJ	µg/Kg
				S-38443-110917-BW-035	0.91 UJ	µg/Kg
				S-38443-110917-BW-036	1.3 UJ	µg/Kg
				S-38443-110917-BW-038	0.88 UJ	µg/Kg
				S-38443-110917-BW-040	0.74 UJ	µg/Kg
				S-38443-110717-BW-029	1.1 UJ	µg/Kg
				S-38443-110717-BW-030	1.0 UJ	µg/Kg

Table 4

Qualified Sample Results Due to Outlying Continuing Calibration Results
Test Pit Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-November 2017

Parameter	Analyte	Calibration Date (mm/dd/yyyy)	%D	Associated Sample ID	Qualified Result	Units
SVOCs	Hexachlorobenzene	11/07/2017	27	S-38443-103017-BW-001	2.3 UJ	µg/Kg
				S-38443-103017-BW-002	2.5 UJ	µg/Kg
SVOCs	Pentachlorophenol	11/07/2017	36	S-38443-103017-BW-001	10 UJ	µg/Kg
				S-38443-103017-BW-002	11 UJ	µg/Kg
Pesticides	Endrin aldehyde	11/17/2017	22	S-38443-110617-BW-025	22 UJ	µg/Kg
Pesticides	Endrin	11/17/2017	26	S-38443-110717-BW-026	140 J	µg/Kg
				S-38443-110717-BW-029	39 J	µg/Kg
Pesticides	Endrin aldehyde	11/17/2017	22	S-38443-110717-BW-026	110 UJ	µg/Kg
Pesticides	Endrin aldehyde	11/17/2017	29	S-38443-110717-BW-029	110 J	µg/Kg
PCBs	Aroclor-1016 (PCB-1016)	11/10/2017	18	S-38443-103117-BW-006	26 UJ	µg/Kg
				S-38443-103117-BW-007	27 UJ	µg/Kg
				S-38443-103117-BW-008	25 UJ	µg/Kg
PCBs	Aroclor-1221 (PCB-1221)	11/10/2017	18	S-38443-103117-BW-006	24 UJ	µg/Kg
				S-38443-103117-BW-007	26 UJ	µg/Kg
				S-38443-103117-BW-008	24 UJ	µg/Kg
PCBs	Aroclor-1232 (PCB-1232)	11/10/2017	17	S-38443-103117-BW-006	17 UJ	µg/Kg
				S-38443-103117-BW-007	18 UJ	µg/Kg
				S-38443-103117-BW-008	17 UJ	µg/Kg
PCBs	Aroclor-1242 (PCB-1242)	11/10/2017	16	S-38443-103117-BW-006	21 UJ	µg/Kg
				S-38443-103117-BW-007	22 UJ	µg/Kg
				S-38443-103117-BW-008	21 UJ	µg/Kg
PCBs	Aroclor-1248 (PCB-1248)	11/10/2017	16	S-38443-103117-BW-006	18 UJ	µg/Kg
				S-38443-103117-BW-007	19 UJ	µg/Kg
				S-38443-103117-BW-008	18 UJ	µg/Kg

Table 4

Qualified Sample Results Due to Outlying Continuing Calibration Results
Test Pit Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-November 2017

Parameter	Analyte	Calibration Date (mm/dd/yyyy)	%D	Associated Sample ID	Qualified Result	Units
PCBs	Aroclor-1016 (PCB-1016)	11/09/2017	19	S-38443-110117-BW-013	31 UJ	µg/Kg
	Aroclor-1221 (PCB-1221)		16		30 UJ	µg/Kg
	Aroclor-1232 (PCB-1232)		15.2		21 UJ	µg/Kg
	Aroclor-1248 (PCB-1248)		16		22 UJ	µg/Kg
	Aroclor-1260 (PCB-1260)		18		24 J	µg/Kg
PCBs	Aroclor-1016 (PCB-1016)	11/09/2017	15.6	S-38443-110217-BW-015	28 UJ	µg/Kg
				S-38443-110217-BW-016	29 UJ	µg/Kg
				S-38443-110217-BW-017	27 UJ	µg/Kg
				S-38443-110217-BW-018	27 UJ	µg/Kg
				S-38443-110217-BW-019	28 UJ	µg/Kg
				S-38443-110317-BW-020	28 UJ	µg/Kg
				S-38443-110317-BW-021	34 UJ	µg/Kg
				S-38443-110317-BW-022	27 UJ	µg/Kg

Notes:

-- - Not applicable
%D - Percent difference
J - Estimated concentration
PCBs - Polychlorinated Biphenyls
SVOCs - Semi-volatile Organic Compounds
UJ - Not detected; associated reporting limit is estimated
VOCs - Volatile Organic Compounds

Table 5

Qualified Sample Results Due to Analyte Concentrations in the Method Blanks
Test Pit Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-November 2017

Parameter	Analyte	Analysis Date (mm/dd/yyyy)	Blank Result *	Sample ID	Original Result	Qualified Result	Units
VOCs	Methylene chloride	11/07/2017	1.6 J	S-38443-103017-BW-002	2.4 J	2.4 U	µg/Kg
VOCs	Toluene	11/11/2017	34 J	S-38443-110317-BW-020	74 J	74 U	µg/Kg
			112 J	S-38443-110317-BW-022	140 J	140 U	µg/Kg
VOCs	Acetone	11/10/2017	16 J	S-38443-110617-BW-023	17 J	17 U	µg/Kg
			17 J	S-38443-110617-BW-025	27 J	27 U	µg/Kg
VOCs	Methylene chloride	11/10/2017	4.1 J	S-38443-110617-BW-023	5.1 J	5.1 U	µg/Kg
			4.2 J	S-38443-110617-BW-025	6.7 J	6.7 U	µg/Kg
VOCs	Acetone	11/13/2017	18 J	S-38443-110917-BW-034	6.0 J	18 U	µg/Kg
			18 J	S-38443-110917-BW-035	7.0 J	18 U	µg/Kg
			20 J	S-38443-110917-BW-036	12 J	20 U	µg/Kg
			17 J	S-38443-110917-BW-038	6.4 J	17 U	µg/Kg
			17 J	S-38443-110917-BW-040	5.5 J	17 U	µg/Kg
VOCs	Methylene chloride	11/13/2017	1.4 J	S-38443-110917-BW-034	2.0 J	2.0 U	µg/Kg
			1.4 J	S-38443-110917-BW-035	2.0 J	2.0 U	µg/Kg
			1.6 J	S-38443-110917-BW-036	4.1 J	4.1 U	µg/Kg
			1.3 J	S-38443-110917-BW-038	1.9 J	1.9 U	µg/Kg
			1.3 J	S-38443-110917-BW-040	1.7 J	1.7 U	µg/Kg
VOCs	Acetone	11/14/2017	13 J	S-38443-110917-BW-037	13 J	13 U	µg/Kg
			11 J	S-38443-110917-BW-039	5.5 J	11 U	µg/Kg
VOCs	Methylene chloride	11/14/2017	2.0 J	S-38443-110917-BW-037	4.4 J	4.4 U	µg/Kg
			1.7 J	S-38443-110917-BW-039	1.7 J	1.7 U	µg/Kg
VOCs	Acetone	11/10/2017	16 J	S-38443-110717-BW-026	14 J	16 U	µg/Kg
			17 J	S-38443-110717-BW-027	14 J	17 U	µg/Kg
			17 J	S-38443-110717-BW-028	22 J	22 U	µg/Kg

Table 5

Qualified Sample Results Due to Analyte Concentrations in the Method Blanks
Test Pit Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-November 2017

Parameter	Analyte	Analysis Date (mm/dd/yyyy)	Blank Result *	Sample ID	Original Result	Qualified Result	Units
VOCs	Methylene chloride	11/10/2017	4.1 J	S-38443-110717-BW-026	11 J	11 U	µg/Kg
			4.4 J	S-38443-110717-BW-027	9.8 J	9.8 U	µg/Kg
			4.3 J	S-38443-110717-BW-028	6.3 J	6.3 U	µg/Kg
VOCs	Acetone	11/13/2017	19 J	S-38443-110717-BW-029	16 J	19 U	µg/Kg
			17 J	S-38443-110717-BW-030	12 J	17 U	µg/Kg
VOCs	Methylene chloride	11/13/2017	1.5 J	S-38443-110717-BW-029	4.5 J	4.5 U	µg/Kg
			1.4 J	S-38443-110717-BW-030	6.3 J	6.3 U	µg/Kg
SVOCs	bis(2-Ethylhexyl)phthalate (DEHP)	11/08/2017	41 J	S-38443-103117-BW-003	97 J	97 U	µg/Kg
			32 J	S-38443-103117-BW-007	53 J	53 U	µg/Kg
			31 J	S-38443-103117-BW-008	45 J	45 U	µg/Kg
			3164 J	S-38443-103117-BW-009	4400 J	4400 U	µg/Kg
SVOCs	bis(2-Ethylhexyl)phthalate (DEHP)	11/06/2017	54 J	S-38443-110117-BW-012	51 J	54 U	µg/Kg
			67 J	S-38443-110117-BW-013	57 J	67 U	µg/Kg
			125 J	S-38443-110117-BW-014	110 J	125 U	µg/Kg
			57 J	S-38443-110217-BW-016	45 J	57 U	µg/Kg
			55 J	S-38443-110217-BW-017	32 J	55 U	µg/Kg
			58 J	S-38443-110217-BW-018	24 J	58 U	µg/Kg
SVOCs	bis(2-Ethylhexyl)phthalate (DEHP)	11/07/2017	32 J	S-38443-110217-BW-019	38 J	38 U	µg/Kg
			322 J	S-38443-110317-BW-020	400 J	400 U	µg/Kg
			38 J	S-38443-110317-BW-021	48 J	48 U	µg/Kg
			315 J	S-38443-110317-BW-022	520 J	520 U	µg/Kg
Dioxin/Furans	1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	11/17/2017	0.165 J	S-38443-103117-BW-004	7.4 J	7.4 U	pg/g
Dioxin/Furans	1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	11/17/2017	0.045 J	S-38443-110217-BW-018	2.5 J	2.5 U	pg/g
				S-38443-110117-BW-009	9.2 J	9.2 U	pg/g
				S-38443-110117-BW-010	11 J	11 U	pg/g
				S-38443-110117-BW-012	9.4 J	9.4 U	pg/g
				S-38443-110217-BW-016	1.2 J	1.2 U	pg/g

Table 5

Qualified Sample Results Due to Analyte Concentrations in the Method Blanks
Test Pit Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-November 2017

Parameter	Analyte	Analysis Date (mm/dd/yyyy)	Blank Result *	Sample ID	Original Result	Qualified Result	Units
Dioxin/Furans	1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	11/22/2017	3.860 J	S-38443-110617-BW-024	26 J	26 U	pg/g
Dioxin/Furans	1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	11/22/2017	1.160 J	S-38443-110617-BW-023	7.8 J	7.8 U	pg/g
				S-38443-110617-BW-024	15 J	15 U	pg/g
				S-38443-110617-BW-023	1.2 J	1.2 U	pg/g
				S-38443-110617-BW-024	10 J	10 U	pg/g
				S-38443-110717-BW-030	23 J	23 U	pg/g
Dioxin/Furans	1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	11/22/2017	0.499 J	S-38443-110617-BW-024	6.9 J	6.9 U	pg/g
				S-38443-110617-BW-023	1.7 J	1.7 U	pg/g
Dioxin/Furans	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	11/22/2017	0.419 J	S-38443-110617-BW-024	11 J	11 U	pg/g
				S-38443-110717-BW-027	51 J	51 U	pg/g
				S-38443-110717-BW-028	51 J	51 U	pg/g
				S-38443-110717-BW-030	9.1 J	9.1 U	pg/g
Dioxin/Furans	1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	11/22/2017	0.494 J	S-38443-110617-BW-023	1.2 J	1.2 U	pg/g
				S-38443-110617-BW-024	5.6 J	5.6 U	pg/g
				S-38443-110717-BW-030	29 J	29 U	pg/g
				S-38443-110617-BW-025	3.6 J	3.6 U	pg/g
				S-38443-110717-BW-028	25 J	25 U	pg/g
				S-38443-110717-BW-030	4.3 J	4.3 U	pg/g
				S-38443-110617-BW-024	5.1 J	5.1 U	pg/g
				S-38443-110717-BW-027	12 J	12 U	pg/g
Dioxin/Furans	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	11/22/2017	0.703 J	S-38443-110617-BW-023	1.2 J	1.2 U	pg/g
				S-38443-110717-BW-030	20 J	20 U	pg/g
Dioxin/Furans	2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	11/22/2017	0.852 J	S-38443-110617-BW-023	1.0 J	1.0 U	pg/g
				S-38443-110617-BW-024	8.2 J	8.2 U	pg/g
				S-38443-110717-BW-030	29 J	29 U	pg/g
Dioxin/Furans	1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	11/19/2017	1.620 J	S-38443-110917-BW-038	7.9 J	7.9 U	pg/g
				S-38443-110917-BW-040	0.77 J	0.77 U	pg/g
Dioxin/Furans	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	11/19/2017	0.259 J	S-38443-110917-BW-040	1.8 J	1.8 U	pg/g
Dioxin/Furans	1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	11/19/2017	0.084 J	S-38443-110917-BW-040	0.86 J	0.86 U	pg/g

Table 5

Qualified Sample Results Due to Analyte Concentrations in the Method Blanks
Test Pit Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-November 2017

Parameter	Analyte	Analysis Date (mm/dd/yyyy)	Blank Result *	Sample ID	Original Result	Qualified Result	Units
Metals	Selenium	11/04/2017	0.106 J	S-38443-103117-BW-003	1.3 J	1.3 U	mg/Kg
			0.082 J	S-38443-103117-BW-007	0.82 J	0.82 U	mg/Kg
			0.080 J	S-38443-103117-BW-008	0.70 J	0.70 U	mg/Kg
Metals	Sodium	11/04/2017	37 J	S-38443-103017-BW-001	86 J	86 U	mg/Kg
			40 J	S-38443-103017-BW-002	140 J	140 U	mg/Kg
			47 J	S-38443-103117-BW-003	97 J	97 U	mg/Kg
			40 J	S-38443-103117-BW-004	170 J	170 U	mg/Kg
			49 J	S-38443-103117-BW-005	100 J	100 U	mg/Kg
			36 J	S-38443-103117-BW-006	170 J	170 U	mg/Kg
			36 J	S-38443-103117-BW-007	120 J	120 U	mg/Kg
			35 J	S-38443-103117-BW-008	130 J	130 U	mg/Kg
Metals	Selenium	11/03/2017	0.063 J	S-38443-110117-BW-010	0.64 J	0.64 U	mg/Kg
			0.063 J	S-38443-110117-BW-009	0.63 J	0.63 U	mg/Kg
			0.063 J	S-38443-110117-BW-011	0.93 J	0.93 U	mg/Kg
Metals	Sodium	11/03/2017	14 J	S-38443-110117-BW-014	160 J	160 U	mg/Kg
			12 J	S-38443-110117-BW-010	140 J	140 U	mg/Kg
			12 J	S-38443-110117-BW-011	100 J	100 U	mg/Kg
			12 J	S-38443-110117-BW-012	170 J	170 U	mg/Kg
			15 J	S-38443-110117-BW-013	180 J	180 U	mg/Kg
Metals	Antimony	11/09/2017	0.180 J	S-38443-110217-BW-016	0.17 J	0.18 U	mg/Kg
			0.173 J	S-38443-110217-BW-017	0.17 J	0.17 U	mg/Kg
			0.182 J	S-38443-110217-BW-018	0.18 J	0.18 U	mg/Kg
			0.180 J	S-38443-110217-BW-019	0.25 J	0.25 U	mg/Kg
			0.217 J	S-38443-110317-BW-021	0.33 J	0.33 U	mg/Kg
Metals	Cadmium	11/09/2017	0.006 J	S-38443-110217-BW-017	0.17 J	0.17 U	mg/Kg
Metals	Potassium	11/09/2017	7.3 J	S-38443-110317-BW-020	180 J	180 U	mg/Kg
			8.7 J	S-38443-110317-BW-021	210 J	210 U	mg/Kg
			7.2 J	S-38443-110317-BW-022	180 J	180 U	mg/Kg
Metals	Sodium	11/09/2017	15.2 J	S-38443-110217-BW-015	130 J	130 U	mg/Kg
			14.6 J	S-38443-110217-BW-016	160 J	160 U	mg/Kg

Table 5

Qualified Sample Results Due to Analyte Concentrations in the Method Blanks
Test Pit Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-November 2017

Parameter	Analyte	Analysis Date (mm/dd/yyyy)	Blank Result *	Sample ID	Original Result	Qualified Result	Units
	Sodium		14.0 J	S-38443-110217-BW-017	130 J	130 U	mg/Kg
			14.7 J	S-38443-110217-BW-018	91 J	91 U	mg/Kg
			14.6 J	S-38443-110217-BW-019	85 J	85 U	mg/Kg
			17.6 J	S-38443-110317-BW-021	60 J	60 U	mg/Kg
			14.6 J	S-38443-110317-BW-022	65 J	65 U	mg/Kg
Metals	Selenium	11/09/2017	0.119 J	S-38443-110717-BW-026	0.87 J	0.87 U	mg/Kg
Metals	Silver	11/09/2017	0.002 J	S-38443-110617-BW-023	0.067 J	0.067 U	mg/Kg
Metals	Sodium	11/09/2017	28 J	S-38443-110717-BW-030	92 J	92 U	mg/Kg
Metals	Antimony	11/22/2017	0.060 J	S-38443-110917-BW-040	0.31 J	0.31 U	mg/Kg
Metals	Selenium	11/22/2017	0.163 J	S-38443-110917-BW-038	0.94 J	0.94 U	mg/Kg
			0.156 J	S-38443-110917-BW-039	0.66 J	0.66 U	mg/Kg
			0.161 J	S-38443-110917-BW-040	0.55 J	0.55 U	mg/Kg
Metals	Silver	11/22/2017	0.0018 J	S-38443-110917-BW-039	0.068 J	0.068 U	mg/Kg
			0.0019 J	S-38443-110917-BW-040	0.026 J	0.026 U	mg/Kg
Metals	Sodium	11/22/2017	13 J	S-38443-110917-BW-035	130 J	130 U	mg/Kg
			14 J	S-38443-110917-BW-037	210 J	210 U	mg/Kg
			12 J	S-38443-110917-BW-038	120 J	120 U	mg/Kg
			11 J	S-38443-110917-BW-039	120 J	120 U	mg/Kg
			11 J	S-38443-110917-BW-040	100 J	100 U	mg/Kg

Notes:

*	- Blank result adjusted for moisture
J	- Estimated concentration
SVOCs	- Semi-volatile Organic Compounds
U	- Not detected at the associated reporting limit
VOCs	- Volatile Organic Compounds

Table 6

Qualified Sample Data Due to Outlying of Surrogate Recoveries
Test Pit Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-November 2017

Parameter	Sample ID	Surrogate	Surrogate % Recovery	Control Limits % Recovery	Analyte	Qualified Result	Units
VOCs	S-38443-103017-BW-002	1,2-Dichloroethane-d4	152	61-127	2-Butanone	4.0 J	µg/Kg
		Dibromofluoromethane	156	43-131	Carbon disulfide	0.54 J	µg/Kg
		p-Bromofluorobenzene	132	61-132	Chlorobenzene	4.3 J	µg/Kg
		Toluene-D8	146	66-125	Toluene	0.42 J	µg/Kg
VOCs	S-38443-103117-BW-004	1,2-Dichloroethane-d4	145	61-127	2-Butanone	4.9 J	µg/Kg
		Dibromofluoromethane	149	43-131	Carbon disulfide	0.60 J	µg/Kg
		p-Bromofluorobenzene	150	61-132	Toluene	0.70 J	µg/Kg
		Toluene-D8	158	66-125			
VOCs	S-38443-103117-BW-005	1,2-Dichloroethane-d4	202	61-127	1,1,1-Trichloroethane	2.7 J	µg/Kg
		Dibromofluoromethane	201	43-131	Carbon disulfide	4.1 J	µg/Kg
		Toluene-D8	193	66-125	Methylene chloride	4.1 J	µg/Kg
					Tetrachloroethene	260 J	µg/Kg
					Toluene	1.3 J	µg/Kg
					Trichloroethene	3.6 J	µg/Kg
VOCs	S-38443-110617-BW-023	p-Bromofluorobenzene	138	61-132	Methyl cyclohexane	1.0 J	µg/Kg
		Toluene-D8	134	66-125	Tetrachloroethene	0.96 J	µg/Kg
					Toluene	0.73 J	µg/Kg
VOCs	S-38443-110617-BW-025	1,2-Dichloroethane-d4	133	61-127	1,1,1-Trichloroethane	1.8 J	µg/Kg
		Dibromofluoromethane	138	43-131	Carbon disulfide	2.6 J	µg/Kg
		Toluene-D8	149	66-125	Carbon tetrachloride	2.7 J	µg/Kg
					Tetrachloroethene	5.0 J	µg/Kg
					Trichloroethene	17 J	µg/Kg
VOCs	S-38443-110917-BW-036	1,2-Dichloroethane-d4	129	61-127	Tetrachloroethene	4.5 J	µg/Kg
		Toluene-D8	152	66-125	Trichloroethene	22 J	µg/Kg
		Dibromofluoromethane	135	43-131			

Table 6

Qualified Sample Data Due to Outlying of Surrogate Recoveries
Test Pit Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-November 2017

Parameter	Sample ID	Surrogate	Surrogate % Recovery	Control Limits % Recovery	Analyte	Qualified Result	Units
SVOCs	S-38443-103117-BW-005	2-Fluorophenol	10	29-120	2,4,5-Trichlorophenol	73 UJ	µg/Kg
		Phenol-d5	17	29-120	2,4,6-Trichlorophenol	26 UJ	µg/Kg
					2,4-Dichlorophenol	59 UJ	µg/Kg
					2,4-Dimethylphenol	59 UJ	µg/Kg
					2,4-Dinitrophenol	62 UJ	µg/Kg
					2-Chlorophenol	24 UJ	µg/Kg
					2-Methylphenol	32 UJ	µg/Kg
					2-Nitrophenol	24 UJ	µg/Kg
					3&4-Methylphenol	59 UJ	µg/Kg
					4,6-Dinitro-2-methylphenol	27 UJ	µg/Kg
					4-Chloro-3-methylphenol	62 UJ	µg/Kg
					4-Nitrophenol	50 UJ	µg/Kg
					Pentachlorophenol	27 UJ	µg/Kg
					Phenol	21 UJ	µg/Kg
Pesticides	S-38443-110917-BW-039	(PCB 209) Decachlorobiphenyl	146	13-135	Methoxychlor	2.8 J	µg/Kg
PCBs	S-38443-103117-BW-006	(PCB 209) Decachlorobiphenyl	261	10-132	Aroclor-1254 (PCB-1254)	290 J	µg/Kg
PCBs	S-38443-110217-BW-015	(PCB 209) Decachlorobiphenyl	158	10-132	Aroclor-1254 (PCB-1254)	41 J	µg/Kg
PCBs	S-38443-110817-BW-031	(PCB 209) Decachlorobiphenyl	166	10-132	Aroclor-1248 (PCB-1248)	1900 J	µg/Kg
					Aroclor-1260 (PCB-1260)	1100 J	µg/Kg
PCBs	S-38443-110817-BW-032	(PCB 209) Decachlorobiphenyl	137	10-132	Aroclor-1248 (PCB-1248)	1300 J	µg/Kg
					Aroclor-1260 (PCB-1260)	440 J	µg/Kg

Notes:

J - Estimated concentration
PCBs - Polychlorinated Biphenyls
SVOCs - Semi-volatile Organic Compounds
UJ - Not detected; associated reporting limit is estimated
VOCs - Volatile Organic Compounds

Table 7

Qualified Sample Results Due to Outlying Internal Standard (IS) Recoveries
Test Pit Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
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Parameter	Sample ID	Internal Standard	IS Area Count (percent)	Control Limits (percent)	Analytes	Qualified Results	Units
VOCs	S-38443-103017-BW-002	Fluorobenzene	40	50-200	2-Butanone (Methyl ethyl ketone) (MEK)	4.0 J	µg/Kg
		Chlorobenzene-d5	18		Carbon disulfide	0.54 J	µg/Kg
		1,4-Dichlorobenzene-d4	5		Chlorobenzene	4.3 J	µg/Kg
					Toluene	0.42 J	µg/Kg
					1,1,1-Trichloroethane	R	µg/Kg
					1,1,2,2-Tetrachloroethane	R	µg/Kg
					1,1,2-Trichloroethane	R	µg/Kg
					1,1-Dichloroethane	R	µg/Kg
					1,1-Dichloroethene	R	µg/Kg
					1,2,4-Trichlorobenzene	R	µg/Kg
					1,2-Dibromo-3-chloropropane (DBCP)	R	µg/Kg
					1,2-Dibromoethane (Ethylene dibromide)	R	µg/Kg
					1,2-Dichlorobenzene	R	µg/Kg
					1,2-Dichloroethane	R	µg/Kg
					1,2-Dichloropropane	R	µg/Kg
					1,3-Dichlorobenzene	R	µg/Kg
					1,4-Dichlorobenzene	R	µg/Kg
					2-Hexanone	R	µg/Kg
					4-Methyl-2-pentanone	R	µg/Kg
					Acetone	R	µg/Kg
					Benzene	R	µg/Kg
					Bromodichloromethane	R	µg/Kg
					Bromoform	R	µg/Kg
					Bromomethane (Methyl bromide)	R	µg/Kg
					Carbon tetrachloride	R	µg/Kg
					Chloroethane	R	µg/Kg
					Chloroform (Trichloromethane)	R	µg/Kg
					Chloromethane (Methyl chloride)	R	µg/Kg
					cis-1,2-Dichloroethene	R	µg/Kg
					cis-1,3-Dichloropropene	R	µg/Kg
					Cyclohexane	R	µg/Kg
					Dibromochloromethane	R	µg/Kg
					Dichlorodifluoromethane (CFC-12)	R	µg/Kg
					Ethylbenzene	R	µg/Kg
					Isopropyl benzene	R	µg/Kg

Table 7

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Test Pit Soil Sampling
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Parameter	Sample ID	Internal Standard	IS Area Count (percent)	Control Limits (percent)	Analytes	Qualified Results	Units
VOCs	S-38443-103017-BW-002				Methyl acetate	R	µg/Kg
					Methyl cyclohexane	R	µg/Kg
					Methyl tert butyl ether (MTBE)	R	µg/Kg
					Methylene chloride	R	µg/Kg
					Styrene	R	µg/Kg
					Tetrachloroethene	R	µg/Kg
					trans-1,2-Dichloroethene	R	µg/Kg
					trans-1,3-Dichloropropene	R	µg/Kg
					Trichloroethene	R	µg/Kg
					Trichlorofluoromethane (CFC-11)	R	µg/Kg
					Trifluorotrichloroethane (CFC-113)	R	µg/Kg
					Vinyl chloride	R	µg/Kg
					Xylenes (total)	R	µg/Kg
VOCs	S-38443-103117-BW-003	1,4-Dichlorobenzene-d4	22	50-200	1,1,2,2-Tetrachloroethane	R	µg/Kg
					1,2,4-Trichlorobenzene	R	µg/Kg
					1,2-Dibromo-3-chloropropane (DBCP)	R	µg/Kg
					1,2-Dichlorobenzene	R	µg/Kg
					1,3-Dichlorobenzene	R	µg/Kg
					1,4-Dichlorobenzene	R	µg/Kg
VOCs	S-38443-103117-BW-004	Fluorobenzene	47	50-200	2-Butanone (Methyl ethyl ketone) (MEK)	4.9 J	µg/Kg
		Chlorobenzene-d5	19		Carbon disulfide	0.60 J	µg/Kg
		1,4-Dichlorobenzene-d4	4		Toluene	0.70 J	µg/Kg
					1,1,1-Trichloroethane	0.39 UJ	µg/Kg
					1,1-Dichloroethane	0.56 UJ	µg/Kg
					1,1-Dichloroethene	0.92 UJ	µg/Kg
					1,2-Dichloroethane	0.49 UJ	µg/Kg
					1,2-Dichloropropane	0.53 UJ	µg/Kg
					Acetone	5.2 UJ	µg/Kg
					Benzene	0.54 UJ	µg/Kg
					Bromodichloromethane	0.56 UJ	µg/Kg
					Bromomethane (Methyl bromide)	1.0 UJ	µg/Kg
					Carbon tetrachloride	0.43 UJ	µg/Kg
					Chloroethane	0.65 UJ	µg/Kg

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Parameter	Sample ID	Internal Standard	IS Area Count (percent)	Control Limits (percent)	Analytes	Qualified Results	Units
VOCs	S-38443-103117-BW-004				Chloroform (Trichloromethane)	0.39 UJ	µg/Kg
					Chloromethane (Methyl chloride)	0.65 UJ	µg/Kg
					cis-1,2-Dichloroethene	0.48 UJ	µg/Kg
					Cyclohexane	0.36 UJ	µg/Kg
					Dichlorodifluoromethane (CFC-12)	0.60 UJ	µg/Kg
					Methyl acetate	2.0 UJ	µg/Kg
					Methyl cyclohexane	0.39 UJ	µg/Kg
					Methyl tert butyl ether (MTBE)	0.46 UJ	µg/Kg
					Methylene chloride	0.41 UJ	µg/Kg
					trans-1,2-Dichloroethene	0.65 UJ	µg/Kg
					Trichloroethene	0.70 UJ	µg/Kg
					Trichlorofluoromethane (CFC-11)	0.41 UJ	µg/Kg
					Vinyl chloride	0.48 UJ	µg/Kg
					1,1,2,2-Tetrachloroethane	R	µg/Kg
					1,1,2-Trichloroethane	R	µg/Kg
					1,2,4-Trichlorobenzene	R	µg/Kg
					1,2-Dibromo-3-chloropropane (DBCP)	R	µg/Kg
					1,2-Dibromoethane (Ethylene dibromide)	R	µg/Kg
					1,2-Dichlorobenzene	R	µg/Kg
					1,3-Dichlorobenzene	R	µg/Kg
					1,4-Dichlorobenzene	R	µg/Kg
					2-Hexanone	R	µg/Kg
					4-Methyl-2-pentanone	R	µg/Kg
					Bromoform	R	µg/Kg
					Chlorobenzene	R	µg/Kg
					cis-1,3-Dichloropropene	R	µg/Kg
					Dibromochloromethane	R	µg/Kg
					Ethylbenzene	R	µg/Kg
					Isopropyl benzene	R	µg/Kg
					Styrene	R	µg/Kg
					Tetrachloroethene	R	µg/Kg
					trans-1,3-Dichloropropene	R	µg/Kg
					Trifluorotrichloroethane (CFC-113)	R	µg/Kg
					Xylenes (total)	R	µg/Kg

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Parameter	Sample ID	Internal Standard	IS Area Count (percent)	Control Limits (percent)	Analytes	Qualified Results	Units
VOCs	S-38443-103117-BW-005	Fluorobenzene	34	50-200	Toluene	1.3 J	µg/Kg
		Chlorobenzene-d5	13		1,1,1-Trichloroethane	2.7 J	µg/Kg
		1,4-Dichlorobenzene-d4	3		Tetrachloroethene	260 J	µg/Kg
					Trichloroethene	3.6 J	µg/Kg
					Carbon disulfide	4.1 J	µg/Kg
					Methylene chloride	4.1 J	µg/Kg
					1,1,2,2-Tetrachloroethane	R	µg/Kg
					1,1,2-Trichloroethane	R	µg/Kg
					1,1-Dichloroethane	R	µg/Kg
					1,1-Dichloroethene	R	µg/Kg
					1,2,4-Trichlorobenzene	R	µg/Kg
					1,2-Dibromo-3-chloropropane (DBCP)	R	µg/Kg
					1,2-Dibromoethane (Ethylene dibromide)	R	µg/Kg
					1,2-Dichlorobenzene	R	µg/Kg
					1,2-Dichloroethane	R	µg/Kg
					1,2-Dichloropropane	R	µg/Kg
					1,3-Dichlorobenzene	R	µg/Kg
					1,4-Dichlorobenzene	R	µg/Kg
					2-Butanone (Methyl ethyl ketone) (MEK)	R	µg/Kg
					2-Hexanone	R	µg/Kg
					4-Methyl-2-pentanone	R	µg/Kg
					Acetone	R	µg/Kg
					Benzene	R	µg/Kg
					Bromodichloromethane	R	µg/Kg
					Bromoform	R	µg/Kg
					Bromomethane (Methyl bromide)	R	µg/Kg
					Carbon tetrachloride	R	µg/Kg
					Chlorobenzene	R	µg/Kg
					Chloroethane	R	µg/Kg
					Chloroform (Trichloromethane)	R	µg/Kg
					Chloromethane (Methyl chloride)	R	µg/Kg
					cis-1,2-Dichloroethene	R	µg/Kg
					cis-1,3-Dichloropropene	R	µg/Kg
					Cyclohexane	R	µg/Kg
					Dibromochloromethane	R	µg/Kg

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Parameter	Sample ID	Internal Standard	IS Area Count (percent)	Control Limits (percent)	Analytes	Qualified Results	Units
VOCs	S-38443-103117-BW-005				Dichlorodifluoromethane (CFC-12)	R	µg/Kg
					Ethylbenzene	R	µg/Kg
					Isopropyl benzene	R	µg/Kg
					Methyl acetate	R	µg/Kg
					Methyl cyclohexane	R	µg/Kg
					Methyl tert butyl ether (MTBE)	R	µg/Kg
					Styrene	R	µg/Kg
					trans-1,2-Dichloroethene	R	µg/Kg
					trans-1,3-Dichloropropene	R	µg/Kg
					Trichlorofluoromethane (CFC-11)	R	µg/Kg
					Trifluorotrichloroethane (CFC-113)	R	µg/Kg
					Vinyl chloride	R	µg/Kg
					Xylenes (total)	R	µg/Kg
VOCs	S-38443-103117-BW-006	Chlorobenzene-d5	45	50-200	Tetrachloroethene	51 J	µg/Kg
		1,4-Dichlorobenzene-d4	23		1,1,2-Trichloroethane	0.67 UJ	µg/Kg
					2-Hexanone	1.0 UJ	µg/Kg
					4-Methyl-2-pentanone	1.5 UJ	µg/Kg
					Bromoform	0.69 UJ	µg/Kg
					Chlorobenzene	0.57 UJ	µg/Kg
					Dibromochloromethane	0.52 UJ	µg/Kg
					Ethylbenzene	0.46 UJ	µg/Kg
					Isopropyl benzene	0.34 UJ	µg/Kg
					Styrene	0.46 UJ	µg/Kg
					trans-1,3-Dichloropropene	0.36 UJ	µg/Kg
					Xylenes (total)	0.69 UJ	µg/Kg
					1,1,2,2-Tetrachloroethane	R	µg/Kg
					1,2,4-Trichlorobenzene	R	µg/Kg
					1,2-Dibromo-3-chloropropane (DBCP)	R	µg/Kg
					1,2-Dichlorobenzene	R	µg/Kg
					1,3-Dichlorobenzene	R	µg/Kg
					1,4-Dichlorobenzene	R	µg/Kg

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Test Pit Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
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Parameter	Sample ID	Internal Standard	IS Area Count (percent)	Control Limits (percent)	Analytes	Qualified Results	Units
VOCs	S-38443-110617-BW-023	1,4-Dichlorobenzene-d4	32	50-200	1,1,2,2-Tetrachloroethane	R	µg/Kg
					1,2,4-Trichlorobenzene	R	µg/Kg
					1,2-Dibromo-3-chloropropane (DBCP)	R	µg/Kg
					1,2-Dichlorobenzene	R	µg/Kg
					1,3-Dichlorobenzene	R	µg/Kg
					1,4-Dichlorobenzene	R	µg/Kg
VOCs	S-38443-110617-BW-025	Chlorobenzene-d5	47	50-200	1,1,2,2-Tetrachloroethane	0.56 UJ	µg/Kg
		1,4-Dichlorobenzene-d4	22		1,2,4-Trichlorobenzene	0.52 UJ	µg/Kg
					1,2-Dibromo-3-chloropropane (DBCP)	1.5 UJ	µg/Kg
					1,2-Dichlorobenzene	0.47 UJ	µg/Kg
					1,3-Dichlorobenzene	0.62 UJ	µg/Kg
					1,4-Dichlorobenzene	0.75 UJ	µg/Kg
					1,1,2-Trichloroethane	R	µg/Kg
					1,2-Dibromoethane (Ethylene dibromide)	R	µg/Kg
					2-Hexanone	R	µg/Kg
					4-Methyl-2-pentanone	R	µg/Kg
					Bromoform	R	µg/Kg
					Chlorobenzene	R	µg/Kg
					Dibromochloromethane	R	µg/Kg
					Ethylbenzene	R	µg/Kg
					Isopropyl benzene	R	µg/Kg
					Styrene	R	µg/Kg
					Toluene	R	µg/Kg
					trans-1,3-Dichloropropene	R	µg/Kg
					Xylenes (total)	R	µg/Kg
VOCs	S-38443-110917-BW-036	Chlorobenzene-d5	44	50-200	1,1,2,2-Tetrachloroethane	R	µg/Kg
		1,4-Dichlorobenzene-d4	23		1,1,2-Trichloroethane	R	µg/Kg
					1,2,4-Trichlorobenzene	R	µg/Kg
					1,2-Dibromo-3-chloropropane (DBCP)	R	µg/Kg
					1,2-Dibromoethane (Ethylene dibromide)	R	µg/Kg
					1,2-Dichlorobenzene	R	µg/Kg
					1,3-Dichlorobenzene	R	µg/Kg
					1,4-Dichlorobenzene	R	µg/Kg

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Test Pit Soil Sampling
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Parameter	Sample ID	Internal Standard	IS Area Count (percent)	Control Limits (percent)	Analytes	Qualified Results	Units
VOCs	S-38443-110917-BW-036				2-Hexanone	R	µg/Kg
					4-Methyl-2-pentanone	R	µg/Kg
					Bromoform	R	µg/Kg
					Chlorobenzene	R	µg/Kg
					Dibromochloromethane	R	µg/Kg
					Ethylbenzene	R	µg/Kg
					Isopropyl benzene	R	µg/Kg
					Styrene	R	µg/Kg
					Tetrachloroethene	4.5 J	µg/Kg
					Toluene	R	µg/Kg
					trans-1,3-Dichloropropene	R	µg/Kg
					Xylenes (total)	R	µg/Kg
VOCs	S-38443-110917-BW-037	1,4-Dichlorobenzene-d4	33	50-200	1,1,2,2-Tetrachloroethane	R	µg/Kg
					1,2,4-Trichlorobenzene	R	µg/Kg
					1,2-Dibromo-3-chloropropane (DBCP)	R	µg/Kg
					1,2-Dichlorobenzene	R	µg/Kg
					1,3-Dichlorobenzene	R	µg/Kg
					1,4-Dichlorobenzene	R	µg/Kg
Metals	S-38443-110917-BW-034	Li-6	38	60-125	Thallium	0.26 J	mg/Kg
		Sc/1	56		Cadmium	5.0 J	mg/Kg
		Sc/2	56		Copper	440 J	mg/Kg
		Rh	53		Iron	34000 J	mg/Kg
		In	58		Lead	760 J	mg/Kg
		Tb	59		Zinc	1400 J	mg/Kg
		Ho	59		Aluminum	5900 J	mg/Kg
		Bi	54		Arsenic	16 J	mg/Kg
					Barium	900 J	mg/Kg
					Calcium	56000 J	mg/Kg
					Chromium	38 J	mg/Kg
					Cobalt	19 J	mg/Kg
					Manganese	720 J	mg/Kg
					Nickel	47 J	mg/Kg
					Potassium	820 J	mg/Kg

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Test Pit Soil Sampling
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Parameter	Sample ID	Internal Standard	IS Area Count (percent)	Control Limits (percent)	Analytes	Qualified Results	Units
Metals	S-38443-110917-BW-034				Selenium	2.1 J	mg/Kg
					Silver	1.0 J	mg/Kg
					Vanadium	19 J	mg/Kg
Metals	S-38443-110917-BW-035	Li-6	39	60-125	Thallium	0.41 J	mg/Kg
		Sc/1	56		Cadmium	0.79 J	mg/Kg
		Sc/2	57		Copper	89 J	mg/Kg
		Rh	55		Iron	8300 J	mg/Kg
		In	59		Lead	100 J	mg/Kg
		Tb	59		Zinc	290 J	mg/Kg
		Bi	55		Aluminum	4300 J	mg/Kg
					Arsenic	12 J	mg/Kg
					Barium	320 J	mg/Kg
					Calcium	44000 J	mg/Kg
					Chromium	13 J	mg/Kg
					Cobalt	8.0 J	mg/Kg
					Manganese	300 J	mg/Kg
					Nickel	20 J	mg/Kg
					Potassium	620 J	mg/Kg
					Selenium	1.8 J	mg/Kg
					Silver	0.28 J	mg/Kg
					Vanadium	20 J	mg/Kg
Metals	S-38443-110917-BW-036	Li-6	38	60-125	Thallium	0.35 J	mg/Kg
		Sc/1	58		Antimony	9.2 J	mg/Kg
		Sc/2	58		Aluminum	7000 J	mg/Kg
		Rh	53		Arsenic	19 J	mg/Kg
		In	57		Barium	1600 J	mg/Kg
		Tb	58		Cadmium	8.8 J	mg/Kg
		Ho	58		Calcium	43000 J	mg/Kg
		Bi	56		Chromium	62 J	mg/Kg
					Cobalt	38 J	mg/Kg
					Copper	870 J	mg/Kg
					Iron	24000 J	mg/Kg
					Manganese	550 J	mg/Kg

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Parameter	Sample ID	Internal Standard	IS Area Count (percent)	Control Limits (percent)	Analytes	Qualified Results	Units
Metals	S-38443-110917-BW-036				Nickel	94 J	mg/Kg
					Potassium	1100 J	mg/Kg
					Selenium	2.8 J	mg/Kg
					Silver	2.2 J	mg/Kg
					Vanadium	31 J	mg/Kg
					Zinc	2000 J	mg/Kg
Metals	S-38443-110917-BW-037	Li-6	40	60-125	Antimony	2.0 J	mg/Kg
		Sc/1	59		Aluminum	6300 J	mg/Kg
		Rh	57		Arsenic	25 J	mg/Kg
		Bi	59		Barium	380 J	mg/Kg
					Cadmium	4.0 J	mg/Kg
					Calcium	8100 J	mg/Kg
					Chromium	27 J	mg/Kg
					Cobalt	12 J	mg/Kg
					Copper	1600 J	mg/Kg
					Iron	10000 J	mg/Kg
					Lead	190 J	mg/Kg
					Manganese	140 J	mg/Kg
					Nickel	30 J	mg/Kg
					Potassium	760 J	mg/Kg
					Selenium	2.8 J	mg/Kg
					Silver	0.44 J	mg/Kg
					Thallium	0.51 J	mg/Kg
					Vanadium	35 J	mg/Kg
					Zinc	920 J	mg/Kg
Metals	S-38443-110917-BW-038	Li-6	36	60-125	Thallium	0.19 J	mg/Kg
		Sc/1	55		Antimony	7.1 J	mg/Kg
		Sc/2	54		Aluminum	4700 J	mg/Kg
		Rh	52		Arsenic	9.5 J	mg/Kg
		In	56		Barium	150 J	mg/Kg
		Tb	56		Cadmium	1.7 J	mg/Kg
		Ho	57		Calcium	64000 J	mg/Kg
		Bi	50		Chromium	10 J	mg/Kg

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Test Pit Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
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Parameter	Sample ID	Internal Standard	IS Area Count (percent)	Control Limits (percent)	Analytes	Qualified Results	Units
Metals	S-38443-110917-BW-038				Cobalt	4.9 J	mg/Kg
					Iron	9900 J	mg/Kg
					Lead	130 J	mg/Kg
					Selenium	0.94 UJ	mg/Kg
					Manganese	330 J	mg/Kg
					Nickel	29 J	mg/Kg
					Potassium	490 J	mg/Kg
					Silver	1.1 J	mg/Kg
					Vanadium	16 J	mg/Kg
					Zinc	520 J	mg/Kg
Metals	S-38443-110917-BW-039	Li-6	35	60-125	Thallium	0.16 J	mg/Kg
		Sc/1	54		Antimony	0.63 J	mg/Kg
		Sc/2	53		Aluminum	4700 J	mg/Kg
		Rh	51		Arsenic	7.3 J	mg/Kg
		In	56		Barium	87 J	mg/Kg
		Tb	56		Cadmium	0.37 J	mg/Kg
		Ho	57		Calcium	110000 J	mg/Kg
		Bi	50		Chromium	9.4 J	mg/Kg
					Cobalt	4.2 J	mg/Kg
					Copper	24 J	mg/Kg
					Iron	11000 J	mg/Kg
					Lead	58 J	mg/Kg
					Manganese	350 J	mg/Kg
					Nickel	11 J	mg/Kg
					Selenium	0.66 UJ	mg/Kg
					Silver	0.068 UJ	mg/Kg
					Potassium	660 J	mg/Kg
					Vanadium	15 J	mg/Kg
					Zinc	90 J	mg/Kg
Metals	S-38443-110917-BW-040	Li-6	40	60-125	Thallium	0.14 J	mg/Kg
		Sc/1	57		Selenium	0.55 UJ	mg/Kg
		Sc/2	55		Silver	0.026 UJ	mg/Kg
		Rh	54		Aluminum	5200 J	mg/Kg

Table 7

Qualified Sample Results Due to Outlying Internal Standard (IS) Recoveries
Test Pit Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-November 2017

Parameter	Sample ID	Internal Standard	IS Area Count (percent)	Control Limits (percent)	Analytes	Qualified Results	Units
Metals	S-38443-110917-BW-040	In	59		Arsenic	5.9 J	mg/Kg
		Bi	55		Barium	67 J	mg/Kg
					Cadmium	0.22 J	mg/Kg
					Calcium	73000 J	mg/Kg
					Chromium	8.3 J	mg/Kg
					Cobalt	4.1 J	mg/Kg
					Copper	8.1 J	mg/Kg
					Iron	12000 J	mg/Kg
					Lead	7.8 J	mg/Kg
					Manganese	420 J	mg/Kg
					Nickel	9.6 J	mg/Kg
					Potassium	600 J	mg/Kg
					Vanadium	15 J	mg/Kg
					Zinc	35 J	mg/Kg

Notes:

J - Estimated concentration
R - Rejected
UJ - Not detected; associated reporting limit is estimated
VOCs - Volatile Organic Compounds

Table 8

Qualified Sample Results Due to Outlying MS/MSD Results
Test Pit Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-November 2017

Parameter	Sample ID	Analyte	MS % Recovery	MSD % Recovery	RPD (percent)	Control Limits % Recovery	Control Limits RPD	Qualified Result	Units
Dioxin/Furan	S-38443-110917-BW-040	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	102	124	18	73-127	15	0.20 J	pg/g
Dioxin/Furan	S-38443-110317-BW-020	1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	0	124	39	31-154	15	790 J	pg/g
		1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	61	109	24	54-138	15	140 J	pg/g
Metals	S-38443-103017-BW-001	Aluminum	211	165	12	75-125	20	7700 J	mg/Kg
	S-38443-103017-BW-002							5800 J	mg/Kg
	S-38443-103117-BW-003							2800 J	mg/Kg
	S-38443-103117-BW-004							5300 J	mg/Kg
	S-38443-103117-BW-005							4700 J	mg/Kg
	S-38443-103117-BW-006							4300 J	mg/Kg
	S-38443-103117-BW-007							3400 J	mg/Kg
	S-38443-103117-BW-008							3000 J	mg/Kg
Metals	S-38443-103017-BW-001	Antimony	71	71	1	75-125	20	0.41 J	mg/Kg
	S-38443-103017-BW-002							0.37 J	mg/Kg
	S-38443-103117-BW-003							0.68 J	mg/Kg
	S-38443-103117-BW-004							0.28 J	mg/Kg
	S-38443-103117-BW-005							21 J	mg/Kg
	S-38443-103117-BW-006							2.4 J	mg/Kg
	S-38443-103117-BW-007							0.24 J	mg/Kg
	S-38443-103117-BW-008							0.18 J	mg/Kg
Metals	S-38443-103017-BW-001	Manganese	131	89	23	75-125	20	620 J	mg/Kg
	S-38443-103017-BW-002							270 J	mg/Kg
	S-38443-103117-BW-003							100 J	mg/Kg
	S-38443-103117-BW-004							140 J	mg/Kg
	S-38443-103117-BW-005							47 J	mg/Kg
	S-38443-103117-BW-006							380 J	mg/Kg
	S-38443-103117-BW-007							260 J	mg/Kg
	S-38443-103117-BW-008							280 J	mg/Kg
Metals	S-38443-110117-BW-009	Aluminum	167	160	2	75-125	20	1900 J	mg/Kg
	S-38443-110117-BW-010							1800 J	mg/Kg
	S-38443-110117-BW-011							3500 J	mg/Kg
	S-38443-110117-BW-012							4000 J	mg/Kg
	S-38443-110117-BW-013							8400 J	mg/Kg
	S-38443-110117-BW-014							7700 J	mg/Kg

Table 8

Qualified Sample Results Due to Outlying MS/MSD Results
Test Pit Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-November 2017

Parameter	Sample ID	Analyte	MS % Recovery	MSD % Recovery	RPD (percent)	Control Limits % Recovery	Control Limits RPD	Qualified Result	Units
Metals	S-38443-110117-BW-009	Antimony	46	33	14	75-125	20	4.4 J	mg/Kg
	S-38443-110117-BW-010							1.1 J	mg/Kg
	S-38443-110117-BW-011							0.69 J	mg/Kg
	S-38443-110117-BW-012							0.30 J	mg/Kg
	S-38443-110117-BW-013							0.84 J	mg/Kg
	S-38443-110117-BW-014							0.60 J	mg/Kg
Metals	S-38443-110117-BW-009	Barium	136	159	7	75-125	20	150 J	mg/Kg
	S-38443-110117-BW-010							200 J	mg/Kg
	S-38443-110117-BW-011							35 J	mg/Kg
	S-38443-110117-BW-012							69 J	mg/Kg
	S-38443-110117-BW-013							170 J	mg/Kg
	S-38443-110117-BW-014							140 J	mg/Kg
Metals	S-38443-110117-BW-009	Lead	188	153	7	75-125	20	270 J	mg/Kg
	S-38443-110117-BW-010							250 J	mg/Kg
	S-38443-110117-BW-011							140 J	mg/Kg
	S-38443-110117-BW-012							31 J	mg/Kg
	S-38443-110117-BW-013							51 J	mg/Kg
	S-38443-110117-BW-014							46 J	mg/Kg
Metals	S-38443-110117-BW-009	Nickel	65	69	3	75-125	20	70 J	mg/Kg
	S-38443-110117-BW-010							49 J	mg/Kg
	S-38443-110117-BW-011							19 J	mg/Kg
	S-38443-110117-BW-012							23 J	mg/Kg
	S-38443-110117-BW-013							25 J	mg/Kg
	S-38443-110117-BW-014							22 J	mg/Kg
General Chemistry	S-38443-110217-BW-016	Cyanide (total)	143	-	-	85-115	-	0.54 J	mg/Kg
	S-38443-110317-BW-021							1.9 J	mg/Kg
Metals	S-38443-110217-BW-015	Aluminum	224	203	5	75-125	20	6500 J	mg/Kg
	S-38443-110217-BW-016							3100 J	mg/Kg
	S-38443-110217-BW-017							4700 J	mg/Kg
	S-38443-110217-BW-018							10000 J	mg/Kg
	S-38443-110217-BW-019							7800 J	mg/Kg
	S-38443-110317-BW-020							2100 J	mg/Kg
	S-38443-110317-BW-021							1700 J	mg/Kg
	S-38443-110317-BW-022							1900 J	mg/Kg

Table 8

Qualified Sample Results Due to Outlying MS/MSD Results
Test Pit Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-November 2017

Parameter	Sample ID	Analyte	MS % Recovery	MSD % Recovery	RPD (percent)	Control Limits % Recovery	Control Limits RPD	Qualified Result	Units
Metals	S-38443-110217-BW-015	Antimony	59	48	18	75-125	20	0.55 J	mg/Kg
	S-38443-110217-BW-016							0.18 UJ	mg/Kg
	S-38443-110217-BW-017							0.17 UJ	mg/Kg
	S-38443-110217-BW-018							0.18 UJ	mg/Kg
	S-38443-110217-BW-019							0.25 UJ	mg/Kg
	S-38443-110317-BW-020							0.40 J	mg/Kg
	S-38443-110317-BW-021							0.33 UJ	mg/Kg
	S-38443-110317-BW-022							1.2 J	mg/Kg
General Chemistry	S-38443-110617-BW-023	Cyanide (total)	83	-	-	85-115	-	0.53 UJ	mg/Kg
	S-38443-110617-BW-024							14 J	mg/Kg
	S-38443-110617-BW-025							0.59 UJ	mg/Kg
	S-38443-110717-BW-026							0.51 UJ	mg/Kg
	S-38443-110717-BW-027							0.52 UJ	mg/Kg
	S-38443-110717-BW-028							0.57 UJ	mg/Kg
	S-38443-110717-BW-029							0.59 UJ	mg/Kg
	S-38443-110717-BW-030							2.2 J	mg/Kg
Metals	S-38443-110817-BW-031	Antimony	46	137	54	75-125	20	8.1 J	mg/Kg
	S-38443-110817-BW-032							5.7 J	mg/Kg
	S-38443-110817-BW-033							38 J	mg/Kg
Metals	S-38443-110917-BW-034	Antimony	40	59	37	75-125	20	6.9 J	mg/Kg
	S-38443-110917-BW-035							1.6 J	mg/Kg
	S-38443-110917-BW-036							9.2 J	mg/Kg
	S-38443-110917-BW-037							2.0 J	mg/Kg
	S-38443-110917-BW-038							7.1 J	mg/Kg
	S-38443-110917-BW-039							0.63 J	mg/Kg
	S-38443-110917-BW-040							0.31 UJ	mg/Kg

Notes:

J - Estimated concentration
MS - Matrix Spike
MSD - Matrix Spike Duplicate
RPD - Relative Percent Difference
UJ - Not detected; associated reporting limit is estimated

Table 9

Qualified Sample Data Due to Variability in Field Duplicate Results
Test Pit Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-November 2017

Parameter	Analyte	RPD	Diff	RL	Sample ID	Qualified Result	Field Duplicate Sample ID	Qualified Result	Units
SVOCs	Naphthalene	143	2590	720	S-38443-110117-BW-009	510 J	S-38443-110117-BW-010	3100 J	µg/Kg
	Phenanthrene	81	2300	720		1700 J		4000 J	µg/Kg
SVOCs	Acenaphthene	118	1040	140	S-38443-110817-BW-031	1400 J	S-38443-110817-BW-032	360 J	µg/Kg
	Anthracene	106	2500	140		3600 J		1100 J	µg/Kg
	Fluorene	115	950	140		1300 J		350 J	µg/Kg
SVOCs	Benzo(a)anthracene	133	800	8.3	S-38443-110917-BW-034	200 J	S-38443-110917-BW-035	1000 J	µg/Kg
	Benzo(a)pyrene	110	510	8.3		210 J		720 J	µg/Kg
	Benzo(b)fluoranthene	112	860	8.3		340 J		1200 J	µg/Kg
	Benzo(g,h,i)perylene	100	380	8.3		190 J		570 J	µg/Kg
	Benzo(k)fluoranthene	113	310	8.3		120 J		430 J	µg/Kg
	bis(2-Ethylhexyl)phthalate (DEHP)	192	4990	87		110 J		5100 J	µg/Kg
	Chrysene	127	930	8.3		270 J		1200 J	µg/Kg
	Fluoranthene	141	1490	8.3		310 J		1800 J	µg/Kg
	Indeno(1,2,3-cd)pyrene	108	350	8.3		150 J		500 J	µg/Kg
	Phenanthrene	123	610	8.3		190 J		800 J	µg/Kg
	Pyrene	131	1190	8.3		310 J		1500 J	µg/Kg
PCBs	Aroclor-1254 (PCB-1254)	108	5900		S-38443-110117-BW-009	8400 J	S-38443-110117-BW-010	2500 J	µg/Kg
Metals	Lead	102	1760		S-38443-110817-BW-031	2600 J	S-38443-110817-BW-032	840 J	mg/Kg
Metals	Antimony	125	5.3		S-38443-110917-BW-034	6.9 J	S-38443-110917-BW-035	1.6 J	mg/Kg
	Cadmium	145	4.21			5.0 J		0.79 J	mg/Kg
	Copper	133	351			440 J		89 J	mg/Kg
	Cyanide (total)	183	12.43			13 J		0.57 UJ	mg/Kg
	Iron	122	25700			34000 J		8300 J	mg/Kg
	Lead	153	660			760 J		100 J	mg/Kg
	Zinc	131	1110			1400 J		290 J	mg/Kg

Notes:

Diff - Difference (<2XRL for soils)
J - Estimated concentration
PCBs - Polychlorinated Biphenyls
RL - Reporting Limit
RPD - Relative Percent Difference
SVOCs - Semi-volatile Organic Compounds
UJ - Not detected; associated reporting limit is estimated

Table 10

Qualified Sample Data Due to Differences in Dual Column Results
Test Pit Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-November 2017

Parameter	Analyte	RPD (percent)	Criteria (percent)	Associated Sample ID	Qualified Result	Units
Pesticides	4,4'-DDT	61	<40	S-38443-103017-BW-001	3.4 J	µg/Kg
	Endosulfan sulfate	50			1.7 J	µg/Kg
Pesticides	4,4'-DDE	108	<40	S-38443-103117-BW-006	16 NJ	µg/Kg
	4,4'-DDT	92	<40		23 J	µg/Kg
Pesticides	4,4'-DDT	93	<40	S-38443-103117-BW-007	3.8 J	µg/Kg
Pesticides	Methoxychlor	59	<40	S-38443-103117-BW-008	2.1 J	µg/Kg
Pesticides	Methoxychlor	100	<40	S-38443-110217-BW-019	2.8 J	µg/Kg
Pesticides	Endrin aldehyde	183	<40	S-38443-110617-BW-024	15 J	µg/Kg
	Methoxychlor	69	<40		12 J	µg/Kg
Pesticides	Endrin	139	<40	S-38443-110717-BW-026	140 NJ	µg/Kg
Pesticides	Dieldrin	114	<40	S-38443-110717-BW-027	560 NJ	µg/Kg
Pesticides	Endrin	139	<40	S-38443-110717-BW-028	49 NJ	µg/Kg
	Heptachlor epoxide	144	<40		34 NJ	µg/Kg
	Methoxychlor	74	<40		19 J	µg/Kg
Pesticides	Endrin	127	<40	S-38443-110717-BW-029	39 NJ	µg/Kg
Pesticides	Endrin	127	<40	S-38443-110717-BW-030	46 NJ	µg/Kg

Table 10

Qualified Sample Data Due to Differences in Dual Column Results
Test Pit Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-November 2017

Parameter	Analyte	RPD (percent)	Criteria (percent)	Associated Sample ID	Qualified Result	Units
Pesticides	Endrin	134	<40	S-38443-110817-BW-031	17 NJ	µg/Kg
	Endrin aldehyde	46	<40		36 J	µg/Kg
Pesticides	Endrin aldehyde	72	<40	S-38443-110817-BW-032	24 J	µg/Kg
Pesticides	Methoxychlor	160	<40	S-38443-110817-BW-032	20 NJ	µg/Kg
Pesticides	4,4'-DDT	117	<40	S-38443-110817-BW-033	38 NJ	µg/Kg
Pesticides	Methoxychlor	127	<40	S-38443-110917-BW-034	19 NJ	µg/Kg
Pesticides	Methoxychlor	76	<40	S-38443-110917-BW-035	1.8 J	µg/Kg
Pesticides	Methoxychlor	132	<40	S-38443-110917-BW-036	5.0 NJ	µg/Kg
Pesticides	Endrin	106	<40	S-38443-110917-BW-037	2.6 NJ	µg/Kg
	Endrin aldehyde	62	<40		3.0 J	µg/Kg
	Methoxychlor	184	<40		1.6 NJ	µg/Kg
Pesticides	4,4'-DDD	166	<40	S-38443-110917-BW-038	8.6 NJ	µg/Kg
	Endrin aldehyde	55	<40		5.1 J	µg/Kg
	Methoxychlor	174	<40		8.1 NJ	µg/Kg
Pesticides	Methoxychlor	141	<40	S-38443-110917-BW-039	2.8 NJ	µg/Kg

Table 10

Qualified Sample Data Due to Differences in Dual Column Results
Test Pit Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-November 2017

Parameter	Analyte	RPD (percent)	Criteria (percent)	Associated Sample ID	Qualified Result	Units
Pesticides	Methoxychlor	66	<40	S-38443-110917-BW-040	2.0 J	µg/Kg
PCBs	Aroclor-1254 (PCB-1254)	43	<40	S-38443-110117-BW-010	2500 J	µg/Kg
PCBs	Aroclor-1254 (PCB-1254)	75	<40	S-38443-110317-BW-020	50 J	µg/Kg
PCBs	Aroclor-1242 (PCB-1242)	54	<40	S-38443-110717-BW-030	120 J	µg/Kg
PCBs	Aroclor-1260 (PCB-1260)	42	<40	S-38443-110917-BW-036	34 J	µg/Kg
PCBs	Aroclor-1254 (PCB-1254)	44	<40	S-38443-110917-BW-038	41 J	µg/Kg

Notes:

J - Estimated concentration
NJ - Tentatively Indentified, Estimated concentration
PCBs - Polychlorinated Biphenyls
RPD - Relative Percent Difference

Table 11

Qualified Sample Results Due to Outlying Identification Criteria
Test Pit Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-November 2017

Parameter	Analyte	Associated Sample ID	Qualified Result	Units
Dioxin/Furan	1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	S-38443-110217-BW-016	0.80 J	pg/g
Dioxin/Furan	1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	S-38443-110117-BW-010	1.3 J	pg/g
		S-38443-110917-BW-040	0.083 J	pg/g
Dioxin/Furan	1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	S-38443-103117-BW-008	1.9 J	pg/g
Dioxin/Furan	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	S-38443-103017-BW-001	0.55 J	pg/g
		S-38443-110117-BW-012	0.51 J	pg/g
		S-38443-110217-BW-016	0.18 J	pg/g
Dioxin/Furan	1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	S-38443-103017-BW-001	1.7 J	pg/g
		S-38443-103117-BW-004	1.6 J	pg/g
		S-38443-103117-BW-006	14 J	pg/g
		S-38443-103117-BW-008	4.2 J	pg/g
		S-38443-110117-BW-009	2.2 J	pg/g
		S-38443-110117-BW-012	0.85 J	pg/g
		S-38443-110817-BW-033	59 J	pg/g
		S-38443-110917-BW-036	53 J	pg/g
		S-38443-110917-BW-038	1.1 J	pg/g
		S-38443-110917-BW-040	0.46 J	pg/g
Dioxin/Furan	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	S-38443-103017-BW-001	1.4 J	pg/g
		S-38443-103117-BW-004	0.78 J	pg/g
		S-38443-110117-BW-009	4.7 J	pg/g
		S-38443-110217-BW-018	1.5 J	pg/g
		S-38443-110917-BW-040	0.20 J	pg/g

Table 11

Qualified Sample Results Due to Outlying Identification Criteria
Test Pit Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-November 2017

Parameter	Analyte	Associated Sample ID	Qualified Result	Units
Dioxin/Furan	1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	S-38443-110217-BW-018	0.21 J	pg/g
Dioxin/Furan	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	S-38443-103017-BW-001	1.3 J	pg/g
		S-38443-103117-BW-006	9.8 J	pg/g
		S-38443-103117-BW-008	0.88 J	pg/g
		S-38443-110217-BW-016	0.36 J	pg/g
Dioxin/Furan	1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	S-38443-103017-BW-001	0.28 J	pg/g
		S-38443-103117-BW-006	2.5 J	pg/g
		S-38443-110117-BW-010	0.75 J	pg/g
		S-38443-110117-BW-012	0.27 J	pg/g
		S-38443-110217-BW-018	0.80 J	pg/g
		S-38443-110617-BW-023	0.39 J	pg/g
		S-38443-110617-BW-024	8.6 J	pg/g
		S-38443-110717-BW-030	12 J	pg/g
Dioxin/Furan	1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	S-38443-103017-BW-001	0.79 J	pg/g
		S-38443-103117-BW-004	1.3 J	pg/g
		S-38443-103117-BW-006	5.5 J	pg/g
		S-38443-103117-BW-008	0.65 J	pg/g
		S-38443-110117-BW-009	6.5 J	pg/g
		S-38443-110117-BW-010	6.0 J	pg/g
		S-38443-110117-BW-012	0.66 J	pg/g
		S-38443-110217-BW-016	0.26 J	pg/g
		S-38443-110217-BW-018	1.2 J	pg/g
		S-38443-110317-BW-020	1.3 J	pg/g
		S-38443-110617-BW-023	0.71 J	pg/g
		S-38443-110717-BW-028	110 J	pg/g
		S-38443-110817-BW-033	10 J	pg/g
		S-38443-110917-BW-036	10 J	pg/g

Table 11

Qualified Sample Results Due to Outlying Identification Criteria
Test Pit Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-November 2017

Parameter	Analyte	Associated Sample ID	Qualified Result	Units
Dioxin/Furan	2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	S-38443-110117-BW-009	1.2 J	pg/g
		S-38443-110117-BW-010	1.2 J	pg/g
		S-38443-110117-BW-012	0.63 J	pg/g
		S-38443-110217-BW-016	0.20 J	pg/g
Dioxin/Furan	2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	S-38443-110117-BW-010	2.0 J	pg/g
		S-38443-110217-BW-016	0.21 J	pg/g
		S-38443-110917-BW-040	0.15 J	pg/g
Dioxin/Furan	2,3,7,8-Tetrachlorodibenzofuran (TCDF)	S-38443-103117-BW-004	2.1 J	pg/g
		S-38443-110217-BW-016	0.38 J	pg/g
		S-38443-110317-BW-020	1.3 J	pg/g
		S-38443-110617-BW-023	1.3 J	pg/g
		S-38443-110617-BW-024	25 J	pg/g
		S-38443-110717-BW-030	10 J	pg/g
		S-38443-110917-BW-038	1.5 J	pg/g
Dioxin/Furan	2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	S-38443-103017-BW-001	0.17 J	pg/g
		S-38443-103117-BW-004	0.17 J	pg/g
		S-38443-103117-BW-006	0.74 J	pg/g
		S-38443-103117-BW-008	0.27 J	pg/g
		S-38443-110117-BW-012	0.17 J	pg/g
		S-38443-110217-BW-016	0.081 J	pg/g
		S-38443-110217-BW-018	0.23 J	pg/g
		S-38443-110717-BW-028	21 J	pg/g
		S-38443-110917-BW-038	0.10 J	pg/g
		S-38443-110917-BW-040	0.078 J	pg/g

Notes:

J - Estimated concentration

Memorandum

April 30, 2018

To:	Julian Hayward	Ref. No.:	038443-320
From:	Angela Bown/cs/39-NF	Tel:	513-942-4750
CC:	Brent Ramdial, Valerie Chan		

Subject: **Analytical Results and Full Validation**
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
November 2017

1. Introduction

This document details a validation of analytical results for soil samples collected at the Moraine, Ohio site during November 2017. Samples were submitted to TestAmerica Laboratories, Inc. (TA) located in North Canton, Ohio. A sample collection and analysis summary is presented in Table 1. The validated analytical results are summarized in Table 2. A summary of the analytical methodology is presented in Table 3.

Full Contract Laboratory Program (CLP) equivalent raw data deliverables were provided by the laboratory. The final results and supporting quality assurance/quality control (QA/QC) data were assessed. Evaluation of the data was based on information obtained from the finished data sheets, raw data, chain of custody forms, calibration data, blank data, and recovery data from laboratory control samples (LCS). The assessment of analytical and in-house data included checks for data consistency, adherence to accuracy and precision criteria, and transmittal errors.

The QA/QC criteria by which these data have been assessed are outlined in the analytical methods referenced in Table 3 and applicable guidance from the documents entitled:

i) "Remedial Investigation/Feasibility Study (RI/FS) Work Plan for Operable Units 1 and 2, Appendix E – Quality Assurance Project Plan", September 20, 2017

ii) "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review", USEPA 540-R-10-011, January 2010

Item ii) will subsequently be referred to as the "Guidelines" in this Memorandum.

2. Sample Holding Time and Preservation

The sample holding time criteria and sample preservation requirements for the analyses are summarized in Table 3. Sample chain of custody documents and analytical reports were used to determine sample holding times. All samples were prepared and analyzed within the required holding times.

All samples were properly preserved, delivered on ice, and stored by the laboratory at the required temperature (0-6°C).

3. Initial Calibration – Inorganic Analyses

Initial calibration of the instruments ensures that they are capable of producing satisfactory quantitative data at the beginning of a series of analyses. For ICP analysis, a calibration blank and at least one standard must be analyzed at each wavelength to establish the analytical curve.

After the analyses of the calibration curves, an initial calibration verification (ICV) standard must be analyzed to verify the analytical accuracy of the calibration curves. All analyte recoveries from the analyses of the ICVs must be within the following control limits:

Analytical Method	Parameter	Control Limits
ICP	Metals	90 - 110%

Upon review of the data, it was determined that the calibration curves and ICVs were analyzed at the proper frequencies and that the above-specified criteria were met. The laboratory effectively demonstrated that the instrumentation used for metals analyses were properly calibrated prior to sample analysis.

4. Continuing Calibration - Inorganic Analyses

To ensure that instrument calibration is acceptable throughout the sample analysis period, continuing calibration verification (CCV) standards are analyzed on a regular basis. Each CCV is deemed acceptable if all analyte recoveries are within the control limits specified above for the ICVs. If some of the CCV analyte recoveries are outside the control limits, samples analyzed before and after the CCV, up until the previous and proceeding CCV analyses, are affected.

For this study, CCVs were analyzed at the proper frequency. All analyte recoveries reported for the CCVs were within the specified limits.

5. Laboratory Blank Analyses

Method blanks are prepared from a purified matrix and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the analytical procedures. Additionally, initial and continuing calibration blanks (ICBs/CCBs) are routinely analyzed after each ICV/CCV for metals analysis.

For this study, laboratory method blanks were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

A review of the ICBs, CCBs, and method blanks was performed, and all laboratory blanks were non-detect for the analyte of interest.

6. Internal Standards (IS) Analyses

IS data were evaluated for all ICP metals sample analyses.

IS elements were added to all samples prior to metals analysis by ICP. Overall instrument stability and performance for metals analyses were monitored using the IS intensity data. IS recoveries were assessed using control limits of 60-125 percent.

All inorganic IS recoveries were acceptable demonstrating adequate analytical performance.

7. Laboratory Control Sample Analyses

An LCS is prepared and analyzed as a sample to assess the analytical efficiencies of the method employed, independent of sample matrix effects.

For this study, an LCS was analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

The LCS contained the analyte of interest. The LCS recovery was assessed per the "Guidelines". The LCS recovery was within the control limits, demonstrating acceptable analytical accuracy.

8. ICP Interference Check Sample Analysis (ICS)

To verify that the laboratory has established proper inter-element and background correction factors, ICSs are analyzed. These samples contain high concentrations of aluminum, calcium, magnesium, and iron and are analyzed at the beginning and end of each sample analysis period. The ICSs are evaluated against recovery control limits of 80 to 120 percent.

ICS analysis results were evaluated for all samples using the criteria in the "Guidelines". All ICS recoveries and results were acceptable.

9. Analyte Reporting

The laboratory reported detected results down to the laboratory's method detection limit (MDL) for each analyte adjusted for specific sample dilutions, weights, and volumes. Positive analyte detections less than the RL but greater than the sample-specific MDL were qualified as estimated (J) in Table 2 unless qualified otherwise in this memorandum.

All soil sample results were reported on a dry weight basis.

10. Conclusion

Based on the assessment detailed in the foregoing, the data summarized in Table 2 are acceptable without qualification.

Table 1

Sample Collection and Analysis Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
November 2017

							Analysis/Parameters	
Sample Identification	**Location**	**Matrix**	**Initial Sample Depth (ft. bgs.)**	**Final Sample Depth (ft. bgs.)**	**Collection Date (mm/dd/yyyy)**	**Collection Time (hr:min)**	**Fractionated Lead**	**Comments**
S-38443-110217-BW-017	SS-31	Soil	0	2	11/02/2017	11:20	X	
S-38443-110717-BW-029	SS-22	Soil	0	2	11/07/2017	14:00	X	
S-38443-110917-BW-039	SS-1	Soil	0	2	11/09/2017	14:20	X	
S-38443-110917-BW-034	SS-3	Soil	0	2	11/09/2017	10:25	X	

Notes:

ft. bgs. - Feet below ground surface

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
November 2017

Location ID:		**SS-1**	**SS-3**	**SS-22**	**SS-31**
Sample Name:		**S-38443-110917-BW-039**	**S-38443-110917-BW-034**	**S-38443-110717-BW-029**	**S-38443-110217-BW-017**
Sample Date:		**11/09/2017**	**11/09/2017**	**11/07/2017**	**11/02/2017**
Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**				
Metals					
Lead - coarse fraction	mg/kg	65	690	6400	59
Lead - fine fraction	mg/kg	110	920	4200	120
Lead - total (calculated by fine/coarse fraction)	mg/kg	73	740	5900	70

Table 3

Analytical Methods
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
November 2017

Parameter	Method	Matrix	Preservation	Holding Time Collection to Analysis (Days)
Fractionated Lead	SW-846 6010B	Soil	Cool, 0-6 ^{0}C	180

Notes:

SW-846 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, 1986, with subsequent revisions

Memorandum

September 27, 2018

To:	Julian Hayward	Ref. No.:	038443-320
From:	Angela Bown/mkd/43-NF	Tel:	513-942-4750
cc:	Brent Ramdial, Valerie Chan		

Subject: **Analytical Results and Full Validation**
Floodplain Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
August 2018

1. Introduction

This document details a validation of analytical results for soil samples collected in support of the Floodplain Soil Sampling Program at the Moraine, Ohio site during August 2018. Samples were submitted to TestAmerica Laboratories, Inc. (TA) located in North Canton, Ohio. A sample collection and analysis summary is presented in Table 1. The validated analytical results are summarized in Table 2. A summary of the analytical methodology is presented in Table 3.

Full Contract Laboratory Program (CLP) equivalent raw data deliverables were provided by the laboratory. Evaluation of the data was based on information obtained from the finished data sheets, raw data, chain of custody forms, calibration data, blank data, duplicate data, recovery data from surrogate spikes/laboratory control samples (LCS)/matrix spike (MS) samples and field quality assurance/quality (QA/QC) samples. The assessment of analytical and in-house data included checks for data consistency (by observing comparability of duplicate analyses), adherence to accuracy and precision criteria, and transmittal errors.

The QA/QC criteria by which these data have been assessed are outlined in the analytical methods referenced in Table 3 and applicable guidance from the documents entitled:

i) "Remedial Investigation/Feasibility Study (RI/FS) Work Plan for Operable Units 1 and 2, Appendix E – Quality Assurance Project Plan", September 20, 2017

ii) "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review", USEPA 540-R-10-011, January 2010

iii) "USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review", USEPA 540-R-08-01, June 2008

Items ii) and iii) will subsequently be referred to as the "Guidelines" in this Memorandum.

2. Sample Holding Time and Preservation

The sample holding time criteria for the analyses are summarized in Table 3. Sample chain of custody documents and analytical reports were used to determine sample holding times. All samples were prepared and analyzed within the required holding times.

All samples were properly preserved, delivered on ice, and stored by the laboratory at the required temperature (0-6°C).

3. Gas Chromatography/Mass Spectrometer (GC/MS) – Tuning and Mass Calibration (Instrument Performance Check) and Inductively Coupled Plasma/Mass Spectrometer (ICP/MS)

3.1 Organic Analyses

Prior to volatile organic compound (VOC) and semi-volatile organic compound (SVOC) analysis, GC/MS instrumentation is tuned to ensure optimization over the mass range of interest. To evaluate instrument tuning, methods require the analysis of specific tuning compounds bromofluorobenzene (BFB) and decafluorotriphenylphosphine (DFTPP), respectively. The resulting spectra must meet the criteria cited in the methods before analysis is initiated. Analysis of the tuning compound must then be repeated every 12 hours throughout sample analysis to ensure the continued optimization of the instrument.

Tuning compounds were analyzed at the required frequency throughout VOC and SVOC analysis periods. All tuning criteria were met indicating that proper optimization of the instrumentation was achieved.

3.2 Inorganic Analyses

To ensure adequate mass resolution, identification, and to some degree, sensitivity, the performance of each ICP/MS instrument used for metals analyses is checked prior to calibration and initiating an analysis sequence through the analysis of a tuning solution.

Instrument performance check data were reviewed. The tuning solution was analyzed at the required frequency throughout the analyses. The results of all instrument performance checks were within the method acceptance criteria, indicating that proper optimization of the instrumentation was achieved.

4. Initial Calibration - Organic Analyses

4.1 GC/MS

To quantify VOCs and SVOCs of interest in samples, calibration of the GC/MS over a specific concentration range must be performed. Initially, a five-point calibration curve containing all compounds of interest is analyzed to characterize instrument response for each analyte over a specific concentration range.

Linearity of the calibration curve and instrument sensitivity are evaluated against the following criteria:

i) All relative response factors (RRFs) must be greater than or equal to 0.050 (greater than or equal to 0.010 for compounds that exhibit poor response)

ii) The percent relative standard deviation (%RSD) values must not exceed 20.0 percent (40.0 percent for compounds that exhibit poor response) or a minimum correlation coefficient (R) and minimum coefficient of determination (R^2) of 0.995 and 0.99, respectively, if linear and quadratic equation calibration curves are used

The initial calibration data for VOCs and SVOCs were reviewed. All compounds met the above criteria for sensitivity and linearity.

4.2 GC

To quantify pesticides, the performance evaluation mixture (PEM) is analyzed at the beginning and end of the initial calibration sequence and throughout the analytical sequence. The results of these analyses are used to evaluate dichlorodiphenyltrichloroethane (DDT)/endrin breakdown, using the method degradation criteria of <15 percent. PEM standards were analyzed at the required frequency throughout sample analysis and all method performance criteria were met.

4.2.1 Internal Standard Calibration – PCBs and Organochlorine Pesticides

In order to quantify organic compounds of interest by GC, calibration of the gas chromatograph over a specific concentration range must be performed. Polychlorinated biphenyls (PCBs) and organochlorine pesticides were calibrated with a dual column analysis using internal standardization. Five peaks, representing five congeners, were used for the analysis of each Aroclor with a separate curve fitted to the calibration data for each congener. A calibration curve consisting of a minimum of five concentration levels was analyzed for all single component compounds of interest. Linearity of the calibration curves are evaluated against the following criteria:

i) The percent relative standard deviation (%RSD) values must not exceed 20.0 percent

ii) A minimum correlation coefficient (R) and minimum coefficient of determination (R^2) of 0.995 and 0.99, respectively, if linear and quadratic equation calibration curves are used

Retention time windows are also calculated from the initial calibration analyses. These windows are then used to identify all compounds of interest in subsequent analyses.

All initial calibration standards were analyzed at the required frequencies. All retention time, peak resolution, and linearity criteria were satisfied as specified in the method.

4.2.2 External Standard Calibration – Herbicides

In order to quantify the herbicide compounds of interest by GC, calibration of the gas chromatograph over a specific concentration range must be performed. Initially, a calibration curve consisting of a minimum of five concentration levels is analyzed for all single component compounds of interest. Linearity of the calibration curve is acceptable if all RSD values are less than or equal to 20.0 percent or if the correlation coefficient (R) is 0.995 or greater for linear regression curves.

Retention time windows are also calculated from the initial calibration analyses. These windows are then used to identify all compounds of interest in subsequent analyses.

All initial calibration standards were analyzed at the required frequencies. All retention time, peak resolution, and linearity criteria were satisfied as specified in the method.

5. Initial Calibration – Inorganic Analyses

Initial calibration of the instruments ensures that they are capable of producing satisfactory quantitative data at the beginning of a series of analyses. For ICP/MS analysis, a calibration blank and at least one standard must be analyzed at each wavelength to establish the analytical curve. For mercury atomic absorption (AA) analyses, a calibration blank and a minimum of five standards must be analyzed to establish the analytical curve, and resulting correlation coefficients (R) must be 0.995 or greater. For instrumental general chemistry analyses, a calibration blank and a minimum of five standards must be analyzed to establish the analytical curve, and resulting correlation coefficients (R) must be 0.995 or greater.

After the analyses of the calibration curves, an initial calibration verification (ICV) standard must be analyzed to verify the analytical accuracy of the calibration curves. All analyte recoveries from the analyses of the ICVs must be within the following control limits:

Analytical Method	Parameter	Control Limits
ICP/MS	Metals	90 - 110%
Cold Vapor AA	Mercury	80 - 120%
Instrumental Wet Chemistry	Cyanide	85 - 115%

Upon review of the data, it was determined that the calibration curves and ICVs were analyzed at the proper frequencies and that all of the above-specified criteria were met. The laboratory effectively demonstrated that the instrumentation used for metals and general chemistry analyses were properly calibrated prior to sample analysis.

6. Continuing Calibration - Organic Analyses

6.1 GC/MS

To ensure that instrument calibration for VOC and SVOC analyses is acceptable throughout the sample analysis period, continuing calibration standards must be analyzed and compared to the initial calibration curve every 12 hours.

The following criteria were employed to evaluate continuing calibration data:

i) All RRF values must be greater than or equal to 0.050 (greater than or equal to 0.010 for compounds that exhibit poor response)

ii) Percent difference (%D) values must not exceed 25.0 percent (40.0 percent for compounds that exhibit poor response)

Calibration standards were analyzed at the required frequency, and the results met the above criteria for instrument sensitivity and stability.

6.2 GC

To ensure that the calibration of the instrument for organic analyses by GC is valid throughout the sample analysis period, continuing calibration standards are analyzed and evaluated on a regular basis. To evaluate the continued linearity of the calibration, %D values are calculated for each compound. As specified in the methods, all %D values should not exceed 15 percent. To ensure that compound retention times do not vary over the analysis period, all retention times for continuing calibration compounds must fall within the established retention time windows.

All continuing calibration standards were analyzed at the required frequency. All %D values and compound retention times met the above criteria indicating acceptable instrument calibration throughout the analysis period.

7. Continuing Calibration - Inorganic Analyses

To ensure that instrument calibration is acceptable throughout the sample analysis period, continuing calibration verification (CCV) standards are analyzed on a regular basis. Each CCV is deemed acceptable if all analyte recoveries are within the control limits specified above for the ICVs. If some of the CCV analyte recoveries are outside the control limits, samples analyzed before and after the CCV, up until the previous and proceeding CCV analyses, are affected.

For this study, CCVs were analyzed at the proper frequency. All analyte recoveries reported for the CCVs were within the specified limits.

8. Laboratory Blank Analyses

Method blanks are prepared from a purified matrix and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the analytical procedures. Additionally, initial and continuing calibration blanks (ICBs/CCBs) are routinely analyzed after each ICV/CCV for the inorganic parameters.

For this study, laboratory method blanks were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

8.1 Organic Analyses

Most method blank results were non-detect. Table 4 presents the sample results that were qualified as non-detect due to analyte concentrations in the method blanks.

8.2 Inorganic Analyses

Upon review of the ICBs, CCBs, and method blanks, it was noted that metal concentrations were observed above the method detection limit (MDL). Most investigative samples associated with the low-level detections reported either non-detect concentrations or concentrations significantly greater than the associated laboratory blank concentrations for the analytes of interest. These sample results were not impacted by the contamination detected. Associated positive sample results with similar concentrations to the levels reported in the blanks were qualified as non-detect (see Table 4).

9. Surrogate Spike Recoveries

In accordance with the methods employed, all samples, blanks, and QC samples analyzed for organics are spiked with surrogate compounds prior to sample extraction and/or analysis. Surrogate recoveries provide a means to evaluate the effects of laboratory performance on individual sample matrices.

All samples submitted for organic determinations were spiked with the appropriate number of surrogate compounds prior to sample extraction and/or analysis.

Each individual surrogate compound is expected to meet the laboratory control limits with the exception of SVOC analyses. According to the "Guidelines" for SVOC analyses, up to one outlying surrogate in the base/neutral or acid fractions is acceptable as long as the recovery is at least 10 percent.

Surrogate recoveries were assessed against laboratory control limits. Due to dilutions equal to or greater than 5 times that were necessary to successfully analyze the samples, numerous surrogate recoveries in investigative samples analyzed for pesticides and PCBs were not assessed. Most remaining surrogate recoveries were within the laboratory criteria. Where surrogate recoveries were above the control limits, non-detect sample results were not impacted by the implied high bias and were not qualified. Table 5 presents the sample results that were qualified due to outlying surrogate recoveries.

10. Internal Standards (IS) Analyses

IS data were evaluated for all VOC, SVOC, PCB, Pesticide, and ICP/MS metals sample analyses.

10.1 Organics Analyses

To ensure that changes in the GC/MS and GC sensitivity and response do not affect sample analysis results IS compounds are added to each sample prior to analysis. All results are then calculated as a ratio of the IS responses.

The sample IS results were evaluated against the following criteria:

i) The retention time of the IS must not vary more than ±30 seconds from the associated calibration standard

ii) IS area counts must not vary by more than a factor of two (-50 percent to +100 percent) from the associated calibration standard

All organic IS recoveries and retention times met the above criteria.

10.2 Inorganic Analyses

IS elements were added to all samples prior to metals analysis by ICP/MS. Overall instrument stability and performance for metals analyses were monitored using the IS intensity data.

The test requested was method SW-846 6020, which states IS recoveries of 30% to 120% must be met for investigatory samples. Method 200.8 states that IS recoveries be within 60% to 125% for QC samples and investigatory samples. All of the samples analyzed were within the 30% to 120% criteria. Method SW-846 6020 also has recoveries of 80% to 120% for the CCV/CCB. The laboratory has allowed deviation of the method in the internal SOP, which states: “Internal standard recoveries may be less than 80% in CCVs and CCBs as long as QC criteria are met and that no anomalies are observed by the analyst.”

All inorganic IS recoveries were within the acceptance limits or were acceptable based on the laboratory analyst professional judgment.

11. Laboratory Control Sample Analyses

LCS or LCS/laboratory control sample duplicates (LCSD) are prepared and analyzed as samples to assess the analytical efficiencies of the methods employed, independent of sample matrix effects. The relative percent difference (RPD) of the LCS/LCSD recoveries is used to evaluate analytical precision.

For this study, LCS or LCS/LCSD were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

11.1 Organic Analyses

The LCS or LCS/LCSD contained all compounds of interest or the compounds specified in the method. All LCS recoveries and RPDs were within the laboratory control limits demonstrating acceptable analytical accuracy and precision.

11.2 Inorganic Analyses

The LCS or LCS/LCSD contained all analytes of interest. LCS recoveries were assessed per the "Guidelines". All LCS recoveries and RPDs were within the control limits demonstrating acceptable analytical accuracy and precision.

12. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analyses

To evaluate the effects of sample matrices on the preparation process, measurement procedures, and accuracy of a particular analysis, samples are spiked with a known concentration of the analyte of concern and analyzed as MS/MSD samples. The RPD between the MS and MSD is used to assess analytical precision.

If the original sample concentration is significantly greater than the spike concentration, the recovery is not assessed.

If only the MS or MSD recovery was outside of control limits, no qualification of the data was performed based on the acceptable recovery of the companion spike and the acceptable RPD.

Due to dilutions that were necessary to successfully analyze the samples, some MS/MSD recoveries were not assessed.

MS/MSD analyses were performed as specified in Table 1.

12.1 Organic Analyses

The MS/MSD samples were spiked with all compounds of interest or the compounds specified in the method. All percent recoveries and RPD values were within the laboratory control limits demonstrating acceptable analytical accuracy and precision with the exception of the sample results in Table 6. Where MS/MSD recoveries were less than 10%, the associated non-detect results were rejected, and detected results were qualified as estimated. Where the MS/MSD recoveries were greater than or equal to 10% but less than the lower control limit, the associated sample results were qualified as estimated.

12.2 Inorganic Analyses

The MS or MS/MSD samples were spiked with the analytes of interest, and the results were evaluated using the "Guidelines". All percent recoveries and RPD values, if applicable, were within the control limits, demonstrating acceptable analytical accuracy and precision with the exception of the sample results presented with qualifiers in Table 6.

13. ICP/MS Serial Dilution

The serial dilution determines whether significant physical or chemical interferences exist due to sample matrix. A minimum of 1 per 20 investigative samples or at least 1 per analytical batch must be analyzed at a five-fold dilution. For samples with sufficient analyte concentrations (>50 times the method detection limit), the serial dilution results must agree within 10 percent of the original results.

A serial dilution was performed on each MS/MSD sample. All results met the criteria above.

14. ICP Interference Check Sample Analysis (ICS)

To verify that the laboratory has established proper inter-element and background correction factors, ICSs are analyzed. These samples contain high concentrations of aluminum, calcium, magnesium, and iron and are analyzed at the beginning and end of each sample analysis period. The ICSs are evaluated against recovery control limits in the "Guidelines" of 80 to 120 percent.

ICS analysis results were evaluated for all samples using the criteria in the "Guidelines". All ICS recoveries and results were acceptable.

15. Field QA/QC Samples

The field QA/QC consisted of three trip blank samples and three rinse blank samples.

15.1 Trip Blank Sample Analysis

To evaluate contamination from sample collection, transportation, storage, and analytical activities, three trip blanks were submitted to the laboratory for VOC analysis. Acetone was detected in one trip blank. The associated sample results were significantly greater than the trip blank result. Qualification of the sample results was not necessary on this basis. All remaining results were non-detect for the compounds of interest.

15.2 Rinse Blank Sample Analysis

To assess field decontamination procedures, ambient conditions at the site, and cleanliness of sample containers, three rinse blank were submitted for analysis, as identified in Table 1. Most results were non-detect for the analytes of interest. Table 7 presents the sample results that were qualified as non-detect due to analyte concentrations in the rinse blanks that were similar to the sample result.

16. Analyte Reporting

The laboratory reported detected results down to the laboratory's method detection limit (MDL) for each analyte adjusted for specific sample dilutions, weights, and volumes. Positive analyte detections less than the RL but greater than the sample-specific MDL were qualified as estimated (J) in Table 2 unless qualified otherwise in this memorandum. Non-detect results were presented as non-detect at the sample specific MDL in Table 2.

All soil results were reported on a dry weight basis.

17. Target Compound Identification

To minimize erroneous compound identification during organic analyses, qualitative criteria including compound retention time and mass spectra (if applicable) were evaluated according to the identification criteria established by the methods. The samples identified in Table 1 were reviewed. The organic compounds reported adhered to the specified identification criteria.

Pesticide, herbicide, and PCB analyses were performed using dual column analyses. In general, the results showed good correlation between the two columns (<40 RPD). Variability was observed between some of the results. The associated data were qualified in Table 8 as estimated (J) or tentatively identified and estimated (NJ) where RPD > 100 to reflect the indicated variability.

18. Conclusion

Based on the assessment detailed in the foregoing, the data summarized in Table 2 are acceptable with the specific exceptions and qualifications noted herein.

Table 1

Sample Collection and Analysis Summary
Floodplain Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
August 2018

Sample Identification	Location	Start Depth (ft bgs)	End Depth (ft bgs)	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters								Comments
							VOCs	SVOCs	Pesticides	PCBs	Herbicides	Metals	Mercury	Cyanide	
S-38443-080618-JC-122	SS-164	0	0.5	Soil	08/06/2018	13:55	X	X	X	X	X	X	X	X	
S-38443-080618-JC-123	SS-164	0.5	2	Soil	08/06/2018	14:15	X	X	X	X	X	X	X	X	
S-38443-080618-JC-124	SS-165	0	0.5	Soil	08/06/2018	14:35	X	X	X	X	X	X	X	X	
S-38443-080618-JC-125	SS-165	0	0.5	Soil	08/06/2018	14:40	X	X	X	X	X	X	X	X	
S-38443-080618-JC-126	SS-165	0.5	2	Soil	08/06/2018	15:10	X	X	X	X	X	X	X	X	
S-38443-080718-JC-127	SS-166	0	0.5	Soil	08/07/2018	08:45	X	X	X	X	X	X	X	X	
S-38443-080718-JC-128	SS-166	0.5	2	Soil	08/07/2018	08:55	X	X	X	X	X	X	X	X	MS/MSD
S-38443-080718-JC-129	SS-167	0	0.5	Soil	08/07/2018	09:20	X	X	X	X	X	X	X	X	
S-38443-080718-JC-130	SS-167	0.5	2	Soil	08/07/2018	09:30	X	X	X	X	X	X	X	X	
S-38443-080718-JC-131	SS-168	0	0.5	Soil	08/07/2018	10:15	X	X	X	X	X	X	X	X	
S-38443-080718-JC-132	SS-168	0.5	2	Soil	08/07/2018	10:25	X	X	X	X	X	X	X	X	
S-38443-080718-JC-134	SS-169	0	0.5	Soil	08/07/2018	10:50	X	X	X	X	X	X	X	X	
S-38443-080718-JC-135	SS-169	0.5	2	Soil	08/07/2018	10:55	X	X	X	X	X	X	X	X	
S-38443-080718-JC-136	SS-170	0	0.5	Soil	08/07/2018	11:15	X	X	X	X	X	X	X	X	
S-38443-080718-JC-137	SS-170	0.5	2	Soil	08/07/2018	11:20	X	X	X	X	X	X	X	X	
S-38443-080718-JC-138	SS-171	0	0.5	Soil	08/07/2018	11:50	X	X	X	X	X	X	X	X	
S-38443-080718-JC-139	SS-171	0.5	2	Soil	08/07/2018	12:00	X	X	X	X	X	X	X	X	
S-38443-080718-JC-141	SS-172	0	0.5	Soil	08/07/2018	15:00	X	X	X	X	X	X	X	X	
S-38443-080718-JC-142	SS-172	0.5	2	Soil	08/07/2018	15:10	X	X	X	X	X	X	X	X	
RB-38443-080718-JC-133	-	-	-	Water	08/07/2018	10:35	X	X	X	X	X	X	X	X	Equipment Blank
TB-38443-080718-JC-004	-	-	-	Water	08/07/2018	-	X								Trip Blank
RB-38443-080718-JC-140	-	-	-	Water	08/07/2018	12:15	X	X	X	X	X	X	X	X	Equipment Blank
TB-38443-080718-JC-004	-	-	-	Water	08/07/2018	-	X								Trip Blank
S-38443-080818-JC-143	SS-173	0	0.5	Soil	08/08/2018	10:45	X	X	X	X	X	X	X	X	
S-38443-080818-JC-144	SS-173	0.5	2	Soil	08/08/2018	10:55	X	X	X	X	X	X	X	X	
S-38443-080818-JC-145	SS-174	0	0.5	Soil	08/08/2018	11:10	X	X	X	X	X	X	X	X	
S-38443-080818-JC-146	SS-174	0.5	2	Soil	08/08/2018	11:20	X	X	X	X	X	X	X	X	
S-38443-080818-JC-147	SS-174	0.5	2	Soil	08/08/2018	11:25	X	X	X	X	X	X	X	X	

Table 1

Sample Collection and Analysis Summary
Floodplain Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
August 2018

Sample Identification	Location	Start Depth (ft bgs)	End Depth (ft bgs)	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters								Comments
							VOCs	SVOCs	Pesticides	PCBs	Herbicides	Metals	Mercury	Cyanide	
S-38443-080818-JC-148	SS-175	0	0.5	Soil	08/08/2018	11:35	X	X	X	X	X	X	X	X	
S-38443-080818-JC-149	SS-175	0.5	2	Soil	08/08/2018	11:45	X	X	X	X	X	X	X	X	MS/MSD
RB-38443-080818-JC-150	-	-	-	Water	08/08/2018	-	X	X	X	X	X	X	X	X	Equipment Blank
TB-38443-080818-05	-	-	-	Water	08/08/2018	-	X								Trip Blank

Notes:

- - Not applicable
DUP - Laboratory Duplicate
FD - Field Duplicate sample of sample in parentheses
ft bgs - Feet below ground surface
MS/MSD - Matrix Spike/Matrix Spike Duplicate
PCBs - Polychlorinated Biphenyls
SVOCs - Semi-volatile Organic Compounds
VOCs - Volatile Organic Compounds

Table 2

Analytical Results Summary
Floodplain Soil Sampling
ITW Corporate South Dayton Dump and Landfill
Moraine, Ohio
August 2018

	Location ID:	**SS-164**	**SS-164**	**SS-165**	**SS-165**	**SS-165**	**SS-166**
	Sample Name:	**S-38443-080618-JC-123**	**S-38443-080618-JC-122**	**S-38443-080618-JC-126**	**S-38443-080618-JC-124**	**S-38443-080618-JC-125**	**S-38443-080718-JC-128**
	Sample Date:	**08/06/2018**	**08/06/2018**	**08/06/2018**	**08/06/2018**	**08/06/2018**	**08/07/2018**
	Depth:	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**
Parameters	**Unit**						
Volatile Organic Compounds							
1,1,1-Trichloroethane	µg/kg	1.2 U	0.87 U	1.2 U	1.2 U	1.2 U	0.95 U
1,1,2,2-Tetrachloroethane	µg/kg	2.1 U	1.5 U	2.1 U	2.0 U	2.1 U	1.7 U
1,1,2-Trichloroethane	µg/kg	1.7 U	1.2 U	1.7 U	1.6 U	1.7 U	1.3 U
1,1-Dichloroethane	µg/kg	1.0 U	0.73 U	1.0 U	0.97 U	1.0 U	0.80 U
1,1-Dichloroethene	µg/kg	1.3 U	0.95 U	1.3 U	1.3 U	1.4 U	1.0 U
1,2,4-Trichlorobenzene	µg/kg	0.85 U	0.60 U	0.84 U	0.80 U	0.86 U	0.66 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	5.3 U	3.8 U	5.3 U	5.1 U	5.4 U	4.2 U
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	1.1 U	0.81 U	1.1 U	1.1 U	1.2 U	0.89 U
1,2-Dichlorobenzene	µg/kg	1.6 U	1.2 U	1.6 U	1.6 U	1.7 U	1.3 U
1,2-Dichloroethane	µg/kg	1.1 U	0.82 U	1.1 U	1.1 U	1.2 U	0.89 U
1,2-Dichloropropane	µg/kg	1.3 U	0.90 U	1.2 U	1.2 U	1.3 U	0.98 U
1,3-Dichlorobenzene	µg/kg	1.2 U	0.86 U	1.2 U	1.1 U	1.2 U	0.94 U
1,4-Dichlorobenzene	µg/kg	1.3 U	0.93 U	1.3 U	1.2 U	1.3 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	5.3 U	3.8 U	5.2 U	5.0 U	5.3 U	4.1 U
2-Hexanone	µg/kg	6.0 U	4.3 U	6.0 U	5.7 U	6.1 U	4.7 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	5.5 U	3.9 U	5.4 U	5.2 U	5.6 U	4.3 U
Acetone	µg/kg	31 U	92	31 U	29 U	32 U	24 U
Benzene	µg/kg	1.0 U	0.74 U	1.0 U	0.98 U	1.0 U	0.81 U
Bromodichloromethane	µg/kg	1.0 U	0.72 U	0.99 U	0.95 U	1.0 U	0.78 U
Bromoform	µg/kg	3.6 U	2.5 U	3.5 U	3.4 U	3.6 U	2.8 U
Bromomethane (Methyl bromide)	µg/kg	1.5 U	1.0 U	1.4 U	1.4 U	1.5 U	1.1 U
Carbon disulfide	µg/kg	1.7 U	1.2 U	1.7 U	1.6 U	1.7 U	1.3 U
Carbon tetrachloride	µg/kg	4.8 U	3.4 U	4.8 U	4.6 U	4.9 U	3.8 U
Chlorobenzene	µg/kg	1.4 U	0.97 U	1.3 U	1.3 U	1.4 U	1.1 U
Chloroethane	µg/kg	1.8 U	1.3 U	1.8 U	1.7 U	1.8 U	1.4 U
Chloroform (Trichloromethane)	µg/kg	1.2 U	0.83 U	1.2 U	1.1 U	1.2 U	0.91 U
Chloromethane (Methyl chloride)	µg/kg	1.5 U	1.1 U	1.5 U	1.5 U	1.6 U	1.2 U
cis-1,2-Dichloroethene	µg/kg	0.96 U	0.69 U	0.95 U	0.91 U	0.98 U	0.75 U
cis-1,3-Dichloropropene	µg/kg	2.1 U	1.5 U	2.1 U	2.0 U	2.2 U	1.7 U
Cyclohexane	µg/kg	2.0 U	1.5 U	2.0 U	1.9 U	2.1 U	1.6 U
Dibromochloromethane	µg/kg	4.1 U	2.9 U	4.1 U	3.9 U	4.2 U	3.2 U
Dichlorodifluoromethane (CFC-12)	µg/kg	1.4 U	1.0 U	1.4 U	1.3 U	1.4 U	1.1 U
Ethylbenzene	µg/kg	1.5 U	1.1 U	1.5 U	1.5 U	1.6 U	1.2 U
Isopropyl benzene	µg/kg	1.2 U	0.88 U	1.2 U	1.2 U	1.2 U	0.96 U
Methyl acetate	µg/kg	5.0 U	3.6 U	5.0 U	4.8 U	5.1 U	3.9 UJ
Methyl cyclohexane	µg/kg	1.8 U	1.3 U	1.8 U	1.7 U	1.8 U	1.4 U
Methyl tert butyl ether (MTBE)	µg/kg	1.2 U	0.87 U	1.2 U	1.2 U	1.2 U	0.95 U
Methylene chloride	µg/kg	18 U	13 U	18 U	17 U	18 U	14 U
Styrene	µg/kg	1.7 U	1.2 U	1.7 U	1.6 U	1.7 U	1.3 U
Tetrachloroethene	µg/kg	1.1 U	0.77 U	1.1 U	1.0 U	1.1 U	0.84 U
Toluene	µg/kg	1.1 U	0.82 U	1.1 U	1.3 J	1.2 U	0.89 U

Table 2

Analytical Results Summary
Floodplain Soil Sampling
ITW Corporate South Dayton Dump and Landfill
Moraine, Ohio
August 2018

	Location ID:	**SS-164**	**SS-164**	**SS-165**	**SS-165**	**SS-165**	**SS-166**
	Sample Name:	**S-38443-080618-JC-123**	**S-38443-080618-JC-122**	**S-38443-080618-JC-126**	**S-38443-080618-JC-124**	**S-38443-080618-JC-125**	**S-38443-080718-JC-128**
	Sample Date:	**08/06/2018**	**08/06/2018**	**08/06/2018**	**08/06/2018**	**08/06/2018**	**08/07/2018**
	Depth:	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**
Parameters	**Unit**						
Volatile Organic Compounds (Continued)							
trans-1,2-Dichloroethene	µg/kg	0.69 U	0.49 U	0.68 U	0.65 U	0.70 U	0.54 U
trans-1,3-Dichloropropene	µg/kg	1.5 U	1.1 U	1.5 U	1.5 U	1.6 U	1.2 U
Trichloroethene	µg/kg	0.94 U	0.67 U	0.93 U	0.89 U	0.95 U	0.73 U
Trichlorofluoromethane (CFC-11)	µg/kg	1.6 U	1.1 U	1.6 U	1.5 U	1.6 U	1.2 U
Trifluorotrichloroethane (CFC-113)	µg/kg	1.9 U	1.4 U	1.9 U	1.8 U	1.9 U	1.5 U
Vinyl chloride	µg/kg	1.2 U	0.89 U	1.2 U	1.2 U	1.3 U	0.97 U
Xylenes (total)	µg/kg	2.3 U	1.7 U	2.3 U	2.2 U	2.4 U	1.8 U
Semi-volatile Organic Compounds							
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	14 U	11 U	12 U	12 U	11 U	12 U
2,4,5-Trichlorophenol	µg/kg	96 U	76 U	85 U	83 U	76 U	85 U
2,4,6-Trichlorophenol	µg/kg	89 U	71 U	79 U	77 U	70 U	79 U
2,4-Dichlorophenol	µg/kg	61 U	49 U	54 U	53 U	48 U	54 U
2,4-Dimethylphenol	µg/kg	56 U	44 U	49 U	48 U	44 U	49 U
2,4-Dinitrophenol	µg/kg	200 U	160 U	170 U	170 U	160 U	170 U
2,4-Dinitrotoluene	µg/kg	86 U	68 U	76 U	74 U	68 U	76 U
2,6-Dinitrotoluene	µg/kg	78 U	62 U	69 U	67 U	62 U	69 U
2-Chloronaphthalene	µg/kg	19 U	15 U	17 U	17 U	15 U	17 U
2-Chlorophenol	µg/kg	14 U	11 U	12 U	12 U	11 U	12 U
2-Methylnaphthalene	µg/kg	5.7 J	110	9.6	7.5 J	8.7	17
2-Methylphenol	µg/kg	43 U	34 U	38 U	37 U	34 U	38 U
2-Nitroaniline	µg/kg	56 U	44 U	49 U	48 U	44 U	49 U
2-Nitrophenol	µg/kg	18 U	14 U	16 U	16 U	14 U	16 U
3&4-Methylphenol	µg/kg	40 U	32 U	36 U	35 U	32 U	36 U
3,3'-Dichlorobenzidine	µg/kg	60 U	47 U	53 U	52 U	47 U	53 U
3-Nitroaniline	µg/kg	68 U	54 U	60 U	59 U	54 U	60 U
4,6-Dinitro-2-methylphenol	µg/kg	110 U	88 U	99 U	96 U	88 U	98 U
4-Bromophenyl phenyl ether	µg/kg	19 U	15 U	17 U	17 U	15 U	17 U
4-Chloro-3-methylphenol	µg/kg	63 U	50 U	55 U	54 U	49 U	55 U
4-Chloroaniline	µg/kg	42 U	33 U	37 U	36 U	33 U	37 U
4-Chlorophenyl phenyl ether	µg/kg	19 U	15 U	17 U	17 U	15 U	17 U
4-Nitroaniline	µg/kg	83 U	66 U	74 U	72 U	66 U	74 U
4-Nitrophenol	µg/kg	130 U	100 U	120 U	110 U	100 U	120 U
Acenaphthene	µg/kg	1.1 U	61	35	5.4 J	6.0 J	0.93 U
Acenaphthylene	µg/kg	6.2 J	46	12	11	11	23
Acetophenone	µg/kg	15 U	12 U	14 U	13 U	12 U	14 U
Anthracene	µg/kg	6.6 J	120	99	20	21	33
Atrazine	µg/kg	50 U	40 U	44 U	43 U	40 U	44 U
Benzaldehyde	µg/kg	32 U	25 U	28 U	28 U	25 U	28 U
Benzo(a)anthracene	µg/kg	39	570	270	100	110	200
Benzo(a)pyrene	µg/kg	50	590	230	120	120	210

Table 2

Analytical Results Summary
Floodplain Soil Sampling
ITW Corporate South Dayton Dump and Landfill
Moraine, Ohio
August 2018

	Location ID:	**SS-164**	**SS-164**	**SS-165**	**SS-165**	**SS-165**	**SS-166**
	Sample Name:	**S-38443-080618-JC-123**	**S-38443-080618-JC-122**	**S-38443-080618-JC-126**	**S-38443-080618-JC-124**	**S-38443-080618-JC-125**	**S-38443-080718-JC-128**
	Sample Date:	**08/06/2018**	**08/06/2018**	**08/06/2018**	**08/06/2018**	**08/06/2018**	**08/07/2018**
	Depth:	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**
Parameters	**Unit**						
Semi -volatile Organic Compounds (Continued)							
Benzo(b)fluoranthene	µg/kg	70	1000	370	190	200	310
Benzo(g,h,i)perylene	µg/kg	36	440	140	86	80	180
Benzo(k)fluoranthene	µg/kg	28	410	150	76	73	160
Biphenyl (1,1-Biphenyl)	µg/kg	24 U	19 U	21 U	20 U	19 U	21 U
bis(2-Chloroethoxy)methane	µg/kg	17 U	13 U	15 U	14 U	13 U	15 U
bis(2-Chloroethyl)ether	µg/kg	17 U	13 U	15 U	14 U	13 U	15 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	89 J	130	63 U	61 U	56 U	63 U
Butyl benzylphthalate (BBP)	µg/kg	31 U	24 U	27 U	26 U	24 U	27 U
Caprolactam	µg/kg	100 U	83 U	92 U	90 U	82 U	92 U
Carbazole	µg/kg	26 U	120	84	23 U	21 U	23 U
Chrysene	µg/kg	47	660	270	120	120	230
Di-n-butylphthalate (DBP)	µg/kg	59 J	36 J	34 J	37 J	24 U	27 U
Di-n-octyl phthalate (DnOP)	µg/kg	39 U	31 U	34 U	34 U	31 U	34 U
Dibenz(a,h)anthracene	µg/kg	0.92 U	120	38	0.79 U	0.72 U	0.81 U
Dibenzofuran	µg/kg	18 U	68	30 J	16 U	14 U	16 U
Diethyl phthalate	µg/kg	43 U	34 U	38 U	37 U	34 U	38 U
Dimethyl phthalate	µg/kg	19 U	15 U	17 U	17 U	15 U	17 U
Fluoranthene	µg/kg	79	1300	650	220	220	350
Fluorene	µg/kg	0.74 U	48	42	6.4 J	4.7 J	7.2 J
Hexachlorobenzene	µg/kg	2.9 U	2.3 U	2.6 U	2.5 U	2.3 U	2.6 U
Hexachlorobutadiene	µg/kg	17 U	13 U	15 U	14 U	13 U	15 U
Hexachlorocyclopentadiene	µg/kg	86 U	68 U	76 U	74 U	68 U	R
Hexachloroethane	µg/kg	13 U	9.9 U	11 U	11 U	9.9 U	11 U
Indeno(1,2,3-cd)pyrene	µg/kg	29	390	130	77	72	150
Isophorone	µg/kg	17 U	13 U	15 U	14 U	13 U	15 U
N-Nitrosodi-n-propylamine	µg/kg	15 U	12 U	14 U	13 U	12 U	14 U
N-Nitrosodiphenylamine	µg/kg	17 U	13 U	15 U	14 U	13 U	15 U
Naphthalene	µg/kg	5.0 J	67	7.2 J	5.5 J	7.0 J	15
Nitrobenzene	µg/kg	18 U	14 U	16 U	16 U	14 U	16 U
Pentachlorophenol	µg/kg	81 U	64 U	71 U	70 U	64 U	71 U
Phenanthrene	µg/kg	34	830	500	87	79	110
Phenol	µg/kg	11 U	8.8 U	9.9 U	9.6 U	8.8 U	9.8 U
Pyrene	µg/kg	73	1100	560	200	200	340
Herbicides							
2,4,5-T	µg/kg	18 U	15 U	17 U	16 U	15 U	16 U
2,4,5-TP (Silvex)	µg/kg	20 U	16 U	18 U	17 U	16 U	17 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/kg	69 U	55 U	62 U	61 U	56 U	60 U
Pesticides/PCBs							
4,4'-DDD	µg/kg	2.0 U	8.5 U	1.8 U	1.7 U	1.7 U	R

Table 2

Analytical Results Summary
Floodplain Soil Sampling
ITW Corporate South Dayton Dump and Landfill
Moraine, Ohio
August 2018

	Location ID:	**SS-164**	**SS-164**	**SS-165**	**SS-165**	**SS-165**	**SS-166**
	Sample Name:	**S-38443-080618-JC-123**	**S-38443-080618-JC-122**	**S-38443-080618-JC-126**	**S-38443-080618-JC-124**	**S-38443-080618-JC-125**	**S-38443-080718-JC-128**
	Sample Date:	**08/06/2018**	**08/06/2018**	**08/06/2018**	**08/06/2018**	**08/06/2018**	**08/07/2018**
	Depth:	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**
Parameters	**Unit**						
Pesticides/PCBs (continued)							
4,4'-DDE	µg/kg	2.1 U	8.6 U	1.8 U	1.7 U	1.7 U	R
4,4'-DDT	µg/kg	1.5 U	6.5 U	1.4 U	1.3 U	1.3 U	R
Aldrin	µg/kg	1.0 U	4.4 U	0.94 U	0.89 U	0.88 U	0.91 UJ
alpha-BHC	µg/kg	1.2 U	5.2 U	1.1 U	1.0 U	1.0 U	1.1 UJ
alpha-Chlordane	µg/kg	2.0 U	8.6 U	1.8 U	1.7 U	1.7 U	1.8 UJ
Aroclor-1016 (PCB-1016)	µg/kg	30 U	25 U	27 U	25 U	25 U	26 U
Aroclor-1221 (PCB-1221)	µg/kg	33 U	27 U	29 U	28 U	27 U	28 U
Aroclor-1232 (PCB-1232)	µg/kg	31 U	26 U	28 U	26 U	26 U	27 U
Aroclor-1242 (PCB-1242)	µg/kg	26 U	22 U	23 U	22 U	22 U	23 U
Aroclor-1248 (PCB-1248)	µg/kg	33 U	27 U	29 U	28 U	27 U	28 U
Aroclor-1254 (PCB-1254)	µg/kg	57 J	280	28 U	26 U	26 U	39 J
Aroclor-1260 (PCB-1260)	µg/kg	30 U	25 U	27 U	25 U	25 U	26 U
beta-BHC	µg/kg	2.3 U	9.9 U	2.1 U	2.0 U	2.0 U	2.1 UJ
delta-BHC	µg/kg	2.3 U	9.7 U	2.1 U	1.9 U	1.9 U	2.0 UJ
Dieldrin	µg/kg	1.5 U	6.3 U	1.3 U	1.3 U	1.3 U	1.3 UJ
Endosulfan I	µg/kg	1.6 U	6.9 U	1.5 U	1.4 U	1.4 U	R
Endosulfan II	µg/kg	2.0 U	8.5 U	1.8 U	1.7 U	1.7 U	R
Endosulfan sulfate	µg/kg	1.7 U	7.3 U	1.6 U	1.5 U	1.5 U	R
Endrin	µg/kg	2.6 U	11 U	2.3 U	2.2 U	2.2 U	R
Endrin aldehyde	µg/kg	1.8 U	8.9 J	1.6 U	1.5 U	1.5 U	R
Endrin ketone	µg/kg	1.2 U	5.1 U	1.1 U	1.0 U	1.0 U	1.1 UJ
gamma-BHC (lindane)	µg/kg	2.4 U	10 U	2.2 U	2.1 U	2.0 U	R
gamma-Chlordane	µg/kg	1.7 U	7.0 U	1.5 U	1.4 U	1.4 U	R
Heptachlor	µg/kg	2.1 U	9.0 U	1.9 U	1.8 U	1.8 U	1.9 UJ
Heptachlor epoxide	µg/kg	2.0 U	8.2 U	1.8 U	1.7 U	1.6 U	1.7 UJ
Methoxychlor	µg/kg	8.9 U	37 U	8.0 U	7.6 U	7.5 U	R
Toxaphene	µg/kg	34 U	140 U	30 U	29 U	29 U	30 U
Metals							
Aluminum	mg/kg	6000	6200	5000	4800	5200	8500
Antimony	mg/kg	0.27 J	0.63 J	0.34 J	0.33 J	0.37 J	0.90 J
Arsenic	mg/kg	5.4	8.0	11	7.4	7.7	10
Barium	mg/kg	85	92	150	100	110	140
Beryllium	mg/kg	0.47	0.56	0.34	0.39	0.37	0.62
Cadmium	mg/kg	0.46	0.91	0.38	0.39	0.41	0.79
Calcium	mg/kg	42000	74000	100000	85000	88000	78000
Chromium	mg/kg	12	19	11	10	11	16
Chromium III (trivalent)	mg/kg	11	19	11	10	11	16
Chromium VI (hexavalent)	mg/kg	0.52 J	0.53 U	0.59 U	0.58 U	0.53 U	0.30 U
Cobalt	mg/kg	4.6	5.4	4.4	4.1	4.4	6.6
Copper	mg/kg	15	35	14	14	15	33

Table 2

Analytical Results Summary
Floodplain Soil Sampling
ITW Corporate South Dayton Dump and Landfill
Moraine, Ohio
August 2018

	Location ID:	**SS-164**	**SS-164**	**SS-165**	**SS-165**	**SS-165**	**SS-166**
	Sample Name:	**S-38443-080618-JC-123**	**S-38443-080618-JC-122**	**S-38443-080618-JC-126**	**S-38443-080618-JC-124**	**S-38443-080618-JC-125**	**S-38443-080718-JC-128**
	Sample Date:	**08/06/2018**	**08/06/2018**	**08/06/2018**	**08/06/2018**	**08/06/2018**	**08/07/2018**
	Depth:	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**
Parameters	**Unit**						
Metals (Continued)							
Iron	mg/kg	12000	14000	12000	11000	12000	16000
Lead	mg/kg	18	55	18	20	21	47
Magnesium	mg/kg	18000	24000	35000	28000	27000	24000
Manganese	mg/kg	440	450	690	490	520	550
Mercury	mg/kg	0.028 U	0.079 J	0.035 J	0.036 J	0.040 J	0.10 J
Nickel	mg/kg	12	17	11	10	11	18
Potassium	mg/kg	850	940	950	1000	1100	1100
Selenium	mg/kg	0.82 J	1.1	0.79 J	0.87 J	0.85 J	1.3
Silver	mg/kg	0.13 J	0.38	0.060 J	0.067 J	0.074 J	0.25
Sodium	mg/kg	82 J	93 J	130 J	95 J	94 J	89 J
Thallium	mg/kg	0.16 J	0.20	0.15 J	0.15 J	0.15 J	0.27
Vanadium	mg/kg	16	17	15	14	15	21
Zinc	mg/kg	49	91	50	55	59	110
General Chemistry							
Cyanide (total)	mg/kg	0.26 U	0.19 U	0.24 U	0.22 U	0.22 U	0.24 U

Notes:

PCBs - Polychlorinated Biphenyls
J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
R - Rejected
ft BGS - Feet below ground surface

Table 2

Analytical Results Summary
Floodplain Soil Sampling
ITW Corporate South Dayton Dump and Landfill
Moraine, Ohio
August 2018

	Location ID:	**SS-166**	**SS-167**	**SS-167**	**SS-168**	**SS-168**	**SS-169**
	Sample Name:	**S-38443-080718-JC-127**	**S-38443-080718-JC-130**	**S-38443-080718-JC-129**	**S-38443-080718-JC-132**	**S-38443-080718-JC-131**	**S-38443-080718-JC-135**
	Sample Date:	**08/07/2018**	**08/07/2018**	**08/07/2018**	**08/07/2018**	**08/07/2018**	**08/07/2018**
	Depth:	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**
Parameters	**Unit**						
Volatile Organic Compounds							
1,1,1-Trichloroethane	µg/kg	1.1 U	0.85 U	0.92 U	1.0 U	0.93 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/kg	1.8 U	1.5 U	1.6 U	1.8 U	1.6 U	1.8 U
1,1,2-Trichloroethane	µg/kg	1.5 U	1.2 U	1.3 U	1.4 U	1.3 U	1.4 U
1,1-Dichloroethane	µg/kg	0.89 U	0.72 U	0.77 U	0.86 U	0.79 U	0.86 U
1,1-Dichloroethene	µg/kg	1.2 U	0.93 U	1.0 U	1.1 U	1.0 U	1.1 U
1,2,4-Trichlorobenzene	µg/kg	0.73 U	0.59 U	0.64 U	0.71 U	0.65 U	1.3 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	4.6 U	3.7 U	4.0 U	4.5 U	4.1 U	4.5 U
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	0.99 U	0.80 U	0.86 U	0.96 U	0.87 U	0.96 U
1,2-Dichlorobenzene	µg/kg	1.4 U	1.2 U	1.2 U	1.4 U	1.3 U	1.4 U
1,2-Dichloroethane	µg/kg	0.99 U	0.80 U	0.86 U	0.96 U	0.88 U	0.96 U
1,2-Dichloropropane	µg/kg	1.1 U	0.88 U	0.95 U	1.1 U	0.97 U	1.1 U
1,3-Dichlorobenzene	µg/kg	1.0 U	0.84 U	0.91 U	1.0 U	0.93 U	1.0 U
1,4-Dichlorobenzene	µg/kg	1.1 U	0.91 U	0.99 U	1.1 U	1.0 U	1.1 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	4.6 U	3.7 U	4.0 U	4.4 U	4.0 U	4.4 U
2-Hexanone	µg/kg	5.2 U	4.2 U	4.6 U	5.1 U	4.6 U	5.1 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	4.8 U	3.8 U	4.2 U	4.6 U	4.2 U	4.6 U
Acetone	µg/kg	27 U	140	45	26 U	24 U	26 U
Benzene	µg/kg	0.89 U	0.72 U	0.78 U	0.87 U	0.79 U	0.87 U
Bromodichloromethane	µg/kg	0.87 U	0.70 U	0.76 U	0.84 U	0.77 U	0.85 U
Bromoform	µg/kg	3.1 U	2.5 U	2.7 U	3.0 U	2.7 U	3.0 U
Bromomethane (Methyl bromide)	µg/kg	1.3 U	1.0 U	1.1 U	1.2 U	1.1 U	1.2 U
Carbon disulfide	µg/kg	1.5 U	1.2 U	1.3 U	1.4 U	1.3 U	1.4 U
Carbon tetrachloride	µg/kg	4.2 U	3.4 U	3.6 U	4.0 U	3.7 U	4.1 U
Chlorobenzene	µg/kg	1.2 U	0.95 U	1.0 U	1.1 U	1.0 U	1.1 U
Chloroethane	µg/kg	1.6 U	1.3 U	1.4 U	1.5 U	1.4 U	1.5 U
Chloroform (Trichloromethane)	µg/kg	1.0 U	0.82 U	0.88 U	0.98 U	0.89 U	0.98 U
Chloromethane (Methyl chloride)	µg/kg	1.3 U	1.1 U	1.2 U	1.3 U	1.2 U	1.3 U
cis-1,2-Dichloroethene	µg/kg	0.83 U	0.67 U	0.73 U	0.81 U	0.74 U	0.81 U
cis-1,3-Dichloropropene	µg/kg	1.8 U	1.5 U	1.6 U	1.8 U	1.6 U	1.8 U
Cyclohexane	µg/kg	1.8 U	1.4 U	1.5 U	1.7 U	1.6 U	1.7 U
Dibromochloromethane	µg/kg	3.6 U	2.9 U	3.1 U	3.5 U	3.2 U	3.5 U
Dichlorodifluoromethane (CFC-12)	µg/kg	1.2 U	0.98 U	1.1 U	1.2 U	1.1 U	1.2 U
Ethylbenzene	µg/kg	1.3 U	1.1 U	1.2 U	1.3 U	1.2 U	1.3 U
Isopropyl benzene	µg/kg	1.1 U	0.86 U	0.93 U	1.0 U	0.94 U	1.0 U
Methyl acetate	µg/kg	4.4 U	3.5 U	3.8 U	4.2 U	3.9 U	4.2 U
Methyl cyclohexane	µg/kg	1.6 U	1.3 U	1.4 U	1.5 U	1.4 U	1.5 U
Methyl tert butyl ether (MTBE)	µg/kg	1.1 U	0.85 U	0.92 U	1.0 U	0.93 U	1.0 U
Methylene chloride	µg/kg	15 U	12 U	13 U	15 U	14 U	15 U
Styrene	µg/kg	1.5 U	1.2 U	1.3 U	1.4 U	1.3 U	1.4 U
Tetrachloroethene	µg/kg	0.94 U	0.76 U	0.82 U	0.91 U	0.83 U	0.91 U
Toluene	µg/kg	0.99 U	0.80 U	0.86 U	0.96 U	0.88 U	0.96 U

Table 2

Analytical Results Summary
Floodplain Soil Sampling
ITW Corporate South Dayton Dump and Landfill
Moraine, Ohio
August 2018

	Location ID:	**SS-166**	**SS-167**	**SS-167**	**SS-168**	**SS-168**	**SS-169**
	Sample Name:	**S-38443-080718-JC-127**	**S-38443-080718-JC-130**	**S-38443-080718-JC-129**	**S-38443-080718-JC-132**	**S-38443-080718-JC-131**	**S-38443-080718-JC-135**
	Sample Date:	**08/07/2018**	**08/07/2018**	**08/07/2018**	**08/07/2018**	**08/07/2018**	**08/07/2018**
	Depth:	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**
Parameters	**Unit**						
Volatile Organic Compounds (Continued)							
trans-1,2-Dichloroethene	µg/kg	0.60 U	0.48 U	0.52 U	0.58 U	0.53 U	0.58 U
trans-1,3-Dichloropropene	µg/kg	1.3 U	1.1 U	1.2 U	1.3 U	1.2 U	1.3 U
Trichloroethene	µg/kg	0.81 U	0.66 U	0.71 U	0.79 U	0.72 U	0.79 U
Trichlorofluoromethane (CFC-11)	µg/kg	1.4 U	1.1 U	1.2 U	1.3 U	1.2 U	1.3 U
Trifluorotrichloroethane (CFC-113)	µg/kg	1.6 U	1.3 U	1.4 U	1.6 U	1.5 U	1.6 U
Vinyl chloride	µg/kg	1.1 U	0.87 U	0.94 U	1.0 U	0.95 U	1.0 U
Xylenes (total)	µg/kg	2.0 U	1.6 U	1.8 U	2.0 U	1.8 U	2.0 U
Semi-volatile Organic Compounds							
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	13 U	11 U	11 U	13 U	13 U	13 U
2,4,5-Trichlorophenol	µg/kg	87 U	74 U	74 U	87 U	90 U	87 U
2,4,6-Trichlorophenol	µg/kg	80 U	69 U	69 U	81 U	83 U	81 U
2,4-Dichlorophenol	µg/kg	55 U	47 U	47 U	56 U	57 U	55 U
2,4-Dimethylphenol	µg/kg	50 U	43 U	43 U	51 U	52 U	50 U
2,4-Dinitrophenol	µg/kg	180 U	150 U	150 U	180 U	180 U	180 U
2,4-Dinitrotoluene	µg/kg	78 U	67 U	67 U	79 U	81 U	78 U
2,6-Dinitrotoluene	µg/kg	70 U	60 U	60 U	71 U	73 U	70 U
2-Chloronaphthalene	µg/kg	18 U	15 U	15 U	18 U	18 U	18 U
2-Chlorophenol	µg/kg	13 U	11 U	11 U	13 U	13 U	13 U
2-Methylnaphthalene	µg/kg	31	0.54 U	6.8 J	32	13	35
2-Methylphenol	µg/kg	39 U	33 U	33 U	39 U	40 U	39 U
2-Nitroaniline	µg/kg	50 U	43 U	43 U	51 U	52 U	50 U
2-Nitrophenol	µg/kg	16 U	14 U	14 U	16 U	17 U	16 U
3&4-Methylphenol	µg/kg	36 U	31 U	31 U	37 U	38 U	36 U
3,3'-Dichlorobenzidine	µg/kg	54 U	46 U	46 U	55 U	56 U	54 U
3-Nitroaniline	µg/kg	61 U	53 U	53 U	62 U	64 U	62 U
4,6-Dinitro-2-methylphenol	µg/kg	100 U	86 U	86 U	100 U	100 U	100 U
4-Bromophenyl phenyl ether	µg/kg	18 U	15 U	15 U	18 U	18 U	18 U
4-Chloro-3-methylphenol	µg/kg	56 U	48 U	48 U	57 U	59 U	57 U
4-Chloroaniline	µg/kg	38 U	32 U	32 U	38 U	39 U	38 U
4-Chlorophenyl phenyl ether	µg/kg	18 U	15 U	15 U	18 U	18 U	18 U
4-Nitroaniline	µg/kg	75 U	65 U	65 U	76 U	78 U	75 U
4-Nitrophenol	µg/kg	120 U	100 U	100 U	120 U	120 U	120 U
Acenaphthene	µg/kg	28	0.82 U	8.5	12	10	60
Acenaphthylene	µg/kg	40	5.5 J	11	44	37	50
Acetophenone	µg/kg	14 U	12 U	12 U	14 U	14 U	14 U
Anthracene	µg/kg	97	8.3	51	44	37	100
Atrazine	µg/kg	45 U	39 U	39 U	46 U	47 U	45 U
Benzaldehyde	µg/kg	49 J	25 U	25 U	29 U	30 U	29 U
Benzo(a)anthracene	µg/kg	410	38	130	290	260	500
Benzo(a)pyrene	µg/kg	450	43	110	340	320	570

Table 2

Analytical Results Summary
Floodplain Soil Sampling
ITW Corporate South Dayton Dump and Landfill
Moraine, Ohio
August 2018

	Location ID:	**SS-166**	**SS-167**	**SS-167**	**SS-168**	**SS-168**	**SS-169**
	Sample Name:	**S-38443-080718-JC-127**	**S-38443-080718-JC-130**	**S-38443-080718-JC-129**	**S-38443-080718-JC-132**	**S-38443-080718-JC-131**	**S-38443-080718-JC-135**
	Sample Date:	**08/07/2018**	**08/07/2018**	**08/07/2018**	**08/07/2018**	**08/07/2018**	**08/07/2018**
	Depth:	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**
Parameters	**Unit**						
Semi -volatile Organic Compounds (Continued)							
Benzo(b)fluoranthene	µg/kg	820	50	160	600	630	1000
Benzo(g,h,i)perylene	µg/kg	260	20	54	230	210	300
Benzo(k)fluoranthene	µg/kg	260	23	71	280	290	400
Biphenyl (1,1-Biphenyl)	µg/kg	21 U	18 U	18 U	22 U	22 U	21 U
bis(2-Chloroethoxy)methane	µg/kg	15 U	13 U	13 U	15 U	16 U	15 U
bis(2-Chloroethyl)ether	µg/kg	15 U	13 U	13 U	15 U	16 U	15 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	110	55 U	68 J	130	76 J	150
Butyl benzylphthalate (BBP)	µg/kg	28 U	24 U	24 U	28 J	29 U	28 U
Caprolactam	µg/kg	94 U	81 U	81 U	95 U	98 U	94 U
Carbazole	µg/kg	64	20 U	20 U	32 J	34 J	85
Chrysene	µg/kg	470	40	120	360	380	610
Di-n-butylphthalate (DBP)	µg/kg	34 J	43 J	41 J	44 J	30 J	29 J
Di-n-octyl phthalate (DnOP)	µg/kg	35 U	30 U	30 U	35 U	36 U	35 U
Dibenz(a,h)anthracene	µg/kg	72	0.71 U	0.71 U	59	50	0.83 U
Dibenzofuran	µg/kg	31 J	14 U	14 U	16 U	17 U	30 J
Diethyl phthalate	µg/kg	39 U	33 U	33 U	39 U	40 U	39 U
Dimethyl phthalate	µg/kg	18 U	15 U	15 U	18 U	18 U	18 U
Fluoranthene	µg/kg	930	54	230	520	620	1200
Fluorene	µg/kg	33	0.57 U	8.7	12	11	46
Hexachlorobenzene	µg/kg	2.6 U	2.3 U	2.3 U	2.7 U	2.7 U	2.6 U
Hexachlorobutadiene	µg/kg	15 U	13 U	13 U	15 U	16 U	15 U
Hexachlorocyclopentadiene	µg/kg	78 U	67 U	67 U	79 U	81 U	78 U
Hexachloroethane	µg/kg	11 U	9.7 U	9.7 U	11 U	12 U	11 U
Indeno(1,2,3-cd)pyrene	µg/kg	240	17	47	200	200	290
Isophorone	µg/kg	15 U	13 U	13 U	15 U	16 U	15 U
N-Nitrosodi-n-propylamine	µg/kg	14 U	12 U	12 U	14 U	14 U	14 U
N-Nitrosodiphenylamine	µg/kg	15 U	13 U	13 U	15 U	16 U	15 U
Naphthalene	µg/kg	27	8.6 U	10	23	11	29
Nitrobenzene	µg/kg	16 U	14 U	14 U	16 U	17 U	16 U
Pentachlorophenol	µg/kg	73 U	62 U	63 U	74 U	75 U	73 U
Phenanthrene	µg/kg	450	18	120	190	180	560
Phenol	µg/kg	10 U	8.6 U	8.6 U	10 U	10 U	10 U
Pyrene	µg/kg	820	68	250	480	550	1000
Herbicides							
2,4,5-T	µg/kg	16 U	14 U	14 U	17 U	17 U	16 U
2,4,5-TP (Silvex)	µg/kg	17 U	15 U	15 U	19 U	18 U	73 J
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/kg	60 U	52 U	52 U	65 U	64 U	61 U
Pesticides/PCBs							
4,4'-DDD	µg/kg	1.9 U	1.6 U	1.7 U	1.8 U	2.0 U	18 U

Table 2

Analytical Results Summary
Floodplain Soil Sampling
ITW Corporate South Dayton Dump and Landfill
Moraine, Ohio
August 2018

	Location ID:	**SS-166**	**SS-167**	**SS-167**	**SS-168**	**SS-168**	**SS-169**
	Sample Name:	**S-38443-080718-JC-127**	**S-38443-080718-JC-130**	**S-38443-080718-JC-129**	**S-38443-080718-JC-132**	**S-38443-080718-JC-131**	**S-38443-080718-JC-135**
	Sample Date:	**08/07/2018**	**08/07/2018**	**08/07/2018**	**08/07/2018**	**08/07/2018**	**08/07/2018**
	Depth:	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**
Parameters	**Unit**						
Pesticides/PCBs (continued)							
4,4'-DDE	µg/kg	1.9 U	1.6 U	1.7 U	2.4 NJ	2.0 U	19 U
4,4'-DDT	µg/kg	1.4 U	1.2 U	1.3 U	1.4 U	1.5 U	14 U
Aldrin	µg/kg	0.99 U	0.81 U	0.86 U	0.95 U	1.0 U	9.6 U
alpha-BHC	µg/kg	1.2 U	0.96 U	1.0 U	1.1 U	1.2 U	11 U
alpha-Chlordane	µg/kg	1.9 U	1.6 U	1.7 U	1.8 U	2.0 U	19 U
Aroclor-1016 (PCB-1016)	µg/kg	28 U	23 U	25 U	27 U	29 U	270 U
Aroclor-1221 (PCB-1221)	µg/kg	31 U	25 U	27 U	30 U	32 U	300 U
Aroclor-1232 (PCB-1232)	µg/kg	30 U	24 U	26 U	28 U	30 U	290 U
Aroclor-1242 (PCB-1242)	µg/kg	24 U	20 U	21 U	23 U	25 U	240 U
Aroclor-1248 (PCB-1248)	µg/kg	31 U	25 U	27 U	30 U	32 U	4600
Aroclor-1254 (PCB-1254)	µg/kg	95	24 U	26 U	440	56 J	290 U
Aroclor-1260 (PCB-1260)	µg/kg	28 U	23 U	25 U	27 U	29 U	270 U
beta-BHC	µg/kg	2.2 U	1.8 U	1.9 U	2.1 U	2.3 U	22 U
delta-BHC	µg/kg	2.2 U	1.8 U	1.9 U	2.1 U	2.2 U	21 U
Dieldrin	µg/kg	1.4 U	1.2 U	1.2 U	1.4 U	1.5 U	14 U
Endosulfan I	µg/kg	1.5 U	1.3 U	1.3 U	1.5 U	1.6 U	15 U
Endosulfan II	µg/kg	1.9 U	1.6 U	1.7 U	1.8 U	2.0 U	18 U
Endosulfan sulfate	µg/kg	1.6 U	1.4 U	1.4 U	2.9 J	1.7 U	16 U
Endrin	µg/kg	2.4 U	2.0 U	2.1 U	2.3 U	2.5 U	24 U
Endrin aldehyde	µg/kg	1.7 U	1.4 U	1.5 U	1.6 U	2.0 NJ	16 U
Endrin ketone	µg/kg	1.1 U	0.94 U	1.0 U	1.1 U	1.2 U	11 U
gamma-BHC (lindane)	µg/kg	2.3 U	1.9 U	2.0 U	2.2 U	2.4 U	29 J
gamma-Chlordane	µg/kg	1.6 U	1.3 U	1.4 U	1.5 U	1.6 U	15 U
Heptachlor	µg/kg	2.0 U	1.7 U	1.8 U	1.9 U	2.1 U	20 U
Heptachlor epoxide	µg/kg	1.8 U	1.5 U	1.6 U	2.8 NJ	1.9 U	18 U
Methoxychlor	µg/kg	8.4 U	6.9 U	7.3 U	8.1 U	8.7 U	82 U
Toxaphene	µg/kg	32 U	26 U	28 U	31 U	33 U	310 U
Metals							
Aluminum	mg/kg	7500	3900	4900	14000	12000	11000
Antimony	mg/kg	1.3 J	0.15 J	0.29 J	0.71 J	0.33 J	0.39 J
Arsenic	mg/kg	9.8	6.3	8.9	12	10	10
Barium	mg/kg	140	62	88	160	150	160
Beryllium	mg/kg	0.67	0.24 U	0.30	0.83	0.66	0.64
Cadmium	mg/kg	1.2	0.20	0.27	1.5	0.78	2.5
Calcium	mg/kg	72000	78000	85000	50000	58000	68000
Chromium	mg/kg	18	7.6	9.3	36	23	54
Chromium III (trivalent)	mg/kg	18	7.3	9.3	36	23	53
Chromium VI (hexavalent)	mg/kg	1.5 U	0.36 J	0.26 U	0.61 U	0.62 U	0.76 J
Cobalt	mg/kg	5.8	3.3	3.9	9.7	9.1	8.5
Copper	mg/kg	42	9.7	13	46	31	60

Table 2

Analytical Results Summary
Floodplain Soil Sampling
ITW Corporate South Dayton Dump and Landfill
Moraine, Ohio
August 2018

	Location ID:	**SS-166**	**SS-167**	**SS-167**	**SS-168**	**SS-168**	**SS-169**
	Sample Name:	**S-38443-080718-JC-127**	**S-38443-080718-JC-130**	**S-38443-080718-JC-129**	**S-38443-080718-JC-132**	**S-38443-080718-JC-131**	**S-38443-080718-JC-135**
	Sample Date:	**08/07/2018**	**08/07/2018**	**08/07/2018**	**08/07/2018**	**08/07/2018**	**08/07/2018**
	Depth:	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**
Parameters	**Unit**						
Metals (Continued)							
Iron	mg/kg	14000	8700	11000	25000	24000	22000
Lead	mg/kg	68	11	14	64	41	92
Magnesium	mg/kg	24000	27000	23000	18000	20000	22000
Manganese	mg/kg	470	320	390	610	650	610
Mercury	mg/kg	0.13	0.048 J	0.054 J	0.14	0.086 J	0.16
Nickel	mg/kg	17	9.1	10	32	26	32
Potassium	mg/kg	1200	530	780	1800	1900	1400
Selenium	mg/kg	1.5	0.49 J	0.65 J	1.6	1.6	1.4
Silver	mg/kg	0.34	0.036 J	0.059 J	0.74	0.42	1.3
Sodium	mg/kg	93 J	89 J	87 J	88 J	89 J	96 J
Thallium	mg/kg	0.28	0.18 J	0.11 J	0.49	0.40	0.40
Vanadium	mg/kg	20	12	13	33	28	27
Zinc	mg/kg	140	28	35	150	120	180
General Chemistry							
Cyanide (total)	mg/kg	0.27 J	0.20 U	0.19 U	0.25 U	0.23 U	0.22 U

Notes:

PCBs - Polychlorinated Biphenyls
J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
R - Rejected
ft BGS - Feet below ground surface

Table 2

Analytical Results Summary
Floodplain Soil Sampling
ITW Corporate South Dayton Dump and Landfill
Moraine, Ohio
August 2018

	Location ID:	**SS-169**	**SS-170**	**SS-170**	**SS-171**	**SS-171**	**SS-172**
	Sample Name:	**S-38443-080718-JC-134**	**S-38443-080718-JC-137**	**S-38443-080718-JC-136**	**S-38443-080718-JC-139**	**S-38443-080718-JC-138**	**S-38443-080718-JC-142**
	Sample Date:	**08/07/2018**	**08/07/2018**	**08/07/2018**	**08/07/2018**	**08/07/2018**	**08/07/2018**
	Depth:	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**
Parameters	**Unit**						
Volatile Organic Compounds							
1,1,1-Trichloroethane	µg/kg	1.1 U	0.82 U	0.90 U	1.0 U	0.97 U	0.89 U
1,1,2,2-Tetrachloroethane	µg/kg	2.0 U	1.4 U	1.6 U	1.8 U	1.7 U	1.5 U
1,1,2-Trichloroethane	µg/kg	1.6 U	1.1 U	1.2 U	1.4 U	1.3 U	1.2 U
1,1-Dichloroethane	µg/kg	0.95 U	0.69 U	0.76 U	0.85 U	0.82 U	0.75 U
1,1-Dichloroethene	µg/kg	1.2 U	0.90 U	0.99 U	1.1 U	1.1 U	0.98 U
1,2,4-Trichlorobenzene	µg/kg	2.1 U	0.57 U	0.63 U	0.71 U	0.68 U	0.62 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	5.0 U	3.6 U	4.0 U	4.4 U	4.3 U	3.9 U
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	1.1 U	0.77 U	0.85 U	0.95 U	0.91 U	0.83 U
1,2-Dichlorobenzene	µg/kg	1.5 U	1.1 U	1.2 U	1.4 U	1.3 U	1.2 U
1,2-Dichloroethane	µg/kg	1.1 U	0.77 U	0.85 U	0.95 U	0.92 U	0.84 U
1,2-Dichloropropane	µg/kg	1.2 U	0.85 U	0.93 U	1.0 U	1.0 U	0.92 U
1,3-Dichlorobenzene	µg/kg	1.1 U	0.81 U	0.90 U	1.0 U	0.97 U	0.88 U
1,4-Dichlorobenzene	µg/kg	1.2 J	0.88 U	0.97 U	1.1 U	1.0 U	0.96 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	4.9 U	3.5 U	3.9 U	4.4 U	4.2 U	3.8 U
2-Hexanone	µg/kg	5.6 U	4.1 U	4.5 U	5.0 U	4.9 U	4.4 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	5.1 U	3.7 U	4.1 U	4.6 U	4.4 U	4.0 U
Acetone	µg/kg	29 U	21 U	23 U	26 U	25 U	23 U
Benzene	µg/kg	0.96 U	0.70 U	0.77 U	0.86 U	0.83 U	0.76 U
Bromodichloromethane	µg/kg	0.93 U	0.68 U	0.75 U	0.84 U	0.81 U	0.74 U
Bromoform	µg/kg	3.3 U	2.4 U	2.6 U	3.0 U	2.9 U	2.6 U
Bromomethane (Methyl bromide)	µg/kg	1.4 U	0.99 U	1.1 U	1.2 U	1.2 U	1.1 U
Carbon disulfide	µg/kg	1.6 U	1.2 U	1.3 U	1.4 U	1.4 U	1.3 U
Carbon tetrachloride	µg/kg	4.5 U	3.2 U	3.6 U	4.0 U	3.9 U	3.5 U
Chlorobenzene	µg/kg	1.3 U	0.91 U	1.0 U	1.1 U	1.1 U	0.99 U
Chloroethane	µg/kg	1.7 U	1.2 U	1.3 U	1.5 U	1.4 U	1.3 U
Chloroform (Trichloromethane)	µg/kg	1.1 U	0.79 U	0.87 U	0.97 U	0.94 U	0.85 U
Chloromethane (Methyl chloride)	µg/kg	1.4 U	1.0 U	1.1 U	1.3 U	1.2 U	1.1 U
cis-1,2-Dichloroethene	µg/kg	0.90 U	0.65 U	0.72 U	0.80 U	0.77 U	0.70 U
cis-1,3-Dichloropropene	µg/kg	2.0 U	1.4 U	1.6 U	1.8 U	1.7 U	1.6 U
Cyclohexane	µg/kg	1.9 U	1.4 U	1.5 U	1.7 U	1.6 U	1.5 U
Dibromochloromethane	µg/kg	3.8 U	2.8 U	3.1 U	3.4 U	3.3 U	3.0 U
Dichlorodifluoromethane (CFC-12)	µg/kg	1.3 U	0.94 U	1.0 U	1.2 U	1.1 U	1.0 U
Ethylbenzene	µg/kg	1.4 U	1.0 U	1.1 U	1.3 U	1.2 U	1.1 U
Isopropyl benzene	µg/kg	1.1 U	0.83 U	0.91 U	1.0 U	0.99 U	0.90 U
Methyl acetate	µg/kg	4.7 U	3.4 U	3.7 U	4.2 U	4.0 U	3.7 U
Methyl cyclohexane	µg/kg	1.7 U	1.2 U	1.3 U	1.5 U	1.5 U	1.3 U
Methyl tert butyl ether (MTBE)	µg/kg	1.1 U	0.82 U	0.90 U	1.0 U	0.97 U	0.89 U
Methylene chloride	µg/kg	17 U	12 U	13 U	15 U	14 U	21 J
Styrene	µg/kg	1.6 U	1.2 U	1.3 U	1.4 U	1.4 U	1.3 U
Tetrachloroethene	µg/kg	1.0 U	0.73 U	0.80 U	0.90 U	0.87 U	0.79 U
Toluene	µg/kg	1.1 U	0.77 U	0.85 U	0.95 U	0.92 U	0.84 U

Table 2

Analytical Results Summary
Floodplain Soil Sampling
ITW Corporate South Dayton Dump and Landfill
Moraine, Ohio
August 2018

	Location ID:	**SS-169**	**SS-170**	**SS-170**	**SS-171**	**SS-171**	**SS-172**
	Sample Name:	**S-38443-080718-JC-134**	**S-38443-080718-JC-137**	**S-38443-080718-JC-136**	**S-38443-080718-JC-139**	**S-38443-080718-JC-138**	**S-38443-080718-JC-142**
	Sample Date:	**08/07/2018**	**08/07/2018**	**08/07/2018**	**08/07/2018**	**08/07/2018**	**08/07/2018**
	Depth:	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**
Parameters	**Unit**						
Volatile Organic Compounds (Continued)							
trans-1,2-Dichloroethene	µg/kg	0.64 U	0.46 U	0.51 U	0.57 U	0.55 U	0.50 U
trans-1,3-Dichloropropene	µg/kg	1.4 U	1.0 U	1.1 U	1.3 U	1.2 U	1.1 U
Trichloroethene	µg/kg	0.87 U	0.63 U	0.70 U	0.78 U	0.75 U	0.69 U
Trichlorofluoromethane (CFC-11)	µg/kg	1.5 U	1.1 U	1.2 U	1.3 U	1.3 U	1.2 U
Trifluorotrichloroethane (CFC-113)	µg/kg	1.8 U	1.3 U	1.4 U	1.6 U	1.5 U	1.4 U
Vinyl chloride	µg/kg	1.2 U	0.84 U	0.92 U	1.0 U	0.99 U	0.91 U
Xylenes (total)	µg/kg	2.2 U	1.6 U	1.7 U	2.0 U	1.9 U	1.7 U
Semi-volatile Organic Compounds							
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	12 U	24 U	12 U	46 U	25 U	12 U
2,4,5-Trichlorophenol	µg/kg	85 U	160 U	86 U	320 U	170 U	83 U
2,4,6-Trichlorophenol	µg/kg	79 U	150 U	80 U	290 U	160 U	77 U
2,4-Dichlorophenol	µg/kg	54 U	100 U	55 U	200 U	110 U	53 U
2,4-Dimethylphenol	µg/kg	49 U	95 U	50 U	180 U	98 U	48 U
2,4-Dinitrophenol	µg/kg	170 U	340 U	180 U	650 U	350 U	170 U
2,4-Dinitrotoluene	µg/kg	76 U	150 U	77 U	280 U	150 U	75 U
2,6-Dinitrotoluene	µg/kg	69 U	130 U	70 U	260 U	140 U	68 U
2-Chloronaphthalene	µg/kg	17 U	33 U	17 U	64 U	34 U	17 U
2-Chlorophenol	µg/kg	12 U	24 U	12 U	46 U	25 U	12 U
2-Methylnaphthalene	µg/kg	18	62	26	42	29	24
2-Methylphenol	µg/kg	38 U	73 U	39 U	140 U	76 U	38 U
2-Nitroaniline	µg/kg	49 U	95 U	50 U	180 U	98 U	48 U
2-Nitrophenol	µg/kg	16 U	31 U	16 U	59 U	32 U	16 U
3&4-Methylphenol	µg/kg	36 U	69 U	36 U	130 U	71 U	35 U
3,3'-Dichlorobenzidine	µg/kg	53 U	100 U	54 U	200 U	110 U	52 U
3-Nitroaniline	µg/kg	60 U	120 U	61 U	220 U	120 U	59 U
4,6-Dinitro-2-methylphenol	µg/kg	98 U	190 U	100 U	370 U	200 U	97 U
4-Bromophenyl phenyl ether	µg/kg	17 U	33 U	17 U	64 U	34 U	17 U
4-Chloro-3-methylphenol	µg/kg	55 U	110 U	56 U	210 U	110 U	54 U
4-Chloroaniline	µg/kg	37 U	71 U	37 U	140 U	74 U	36 U
4-Chlorophenyl phenyl ether	µg/kg	17 U	33 U	17 U	64 U	34 U	17 U
4-Nitroaniline	µg/kg	74 U	140 U	75 U	270 U	150 U	73 U
4-Nitrophenol	µg/kg	120 U	220 U	120 U	430 U	230 U	110 U
Acenaphthene	µg/kg	26	120	31	120	45	21
Acenaphthylene	µg/kg	46	56	35	80	55	41
Acetophenone	µg/kg	14 U	26 U	14 U	50 U	27 U	13 U
Anthracene	µg/kg	90	170	85	1500	150	69
Atrazine	µg/kg	44 U	85 U	45 U	160 U	88 U	44 U
Benzaldehyde	µg/kg	28 U	54 U	29 U	110 U	56 U	28 U
Benzo(a)anthracene	µg/kg	520	820	540	1900	690	390
Benzo(a)pyrene	µg/kg	590	850	610	1600	750	430

Table 2

Analytical Results Summary
Floodplain Soil Sampling
ITW Corporate South Dayton Dump and Landfill
Moraine, Ohio
August 2018

	Location ID:	**SS-169**	**SS-170**	**SS-170**	**SS-171**	**SS-171**	**SS-172**
	Sample Name:	**S-38443-080718-JC-134**	**S-38443-080718-JC-137**	**S-38443-080718-JC-136**	**S-38443-080718-JC-139**	**S-38443-080718-JC-138**	**S-38443-080718-JC-142**
	Sample Date:	**08/07/2018**	**08/07/2018**	**08/07/2018**	**08/07/2018**	**08/07/2018**	**08/07/2018**
	Depth:	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**
Parameters	**Unit**						
Semi -volatile Organic Compounds (Continued)							
Benzo(b)fluoranthene	µg/kg	1100	1400	1100	2700	1400	860
Benzo(g,h,i)perylene	µg/kg	340	810	300	630	380	210
Benzo(k)fluoranthene	µg/kg	410	560	410	1100	570	290
Biphenyl (1,1-Biphenyl)	µg/kg	21 U	40 U	21 U	78 U	42 U	21 U
bis(2-Chloroethoxy)methane	µg/kg	15 U	28 U	15 U	55 U	29 U	15 U
bis(2-Chloroethyl)ether	µg/kg	15 U	28 U	15 U	55 U	29 U	15 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	80 J	150 J	79 J	230 U	130 U	120
Butyl benzylphthalate (BBP)	µg/kg	27 U	52 U	27 U	100 U	54 U	49 J
Caprolactam	µg/kg	92 U	180 U	93 U	340 U	180 U	91 U
Carbazole	µg/kg	72	180	77	280	110 J	54 J
Chrysene	µg/kg	680	1000	700	1900	900	480
Di-n-butylphthalate (DBP)	µg/kg	27 U	52 U	36 J	100 U	54 U	33 J
Di-n-octyl phthalate (DnOP)	µg/kg	34 U	66 U	35 U	130 U	69 U	34 U
Dibenz(a,h)anthracene	µg/kg	88	190	86	190	110	0.80 U
Dibenzofuran	µg/kg	22 J	94 J	25 J	89 J	39 J	17 J
Diethyl phthalate	µg/kg	38 U	73 U	39 U	140 U	76 U	38 U
Dimethyl phthalate	µg/kg	17 U	33 U	17 U	64 U	34 U	17 U
Fluoranthene	µg/kg	1300	2100	1300	4600	1800	900
Fluorene	µg/kg	28	83	31	260	60	23
Hexachlorobenzene	µg/kg	2.6 U	5.0 U	2.6 U	9.6 U	5.2 U	2.5 U
Hexachlorobutadiene	µg/kg	15 U	28 U	15 U	55 U	29 U	15 U
Hexachlorocyclopentadiene	µg/kg	76 U	150 U	77 U	280 U	150 U	75 U
Hexachloroethane	µg/kg	11 U	21 U	11 U	41 U	22 U	11 U
Indeno(1,2,3-cd)pyrene	µg/kg	330	690	300	640	360	210
Isophorone	µg/kg	15 U	28 U	15 U	55 U	29 U	15 U
N-Nitrosodi-n-propylamine	µg/kg	14 U	26 U	14 U	50 U	27 U	13 U
N-Nitrosodiphenylamine	µg/kg	15 U	28 U	15 U	55 U	29 U	15 U
Naphthalene	µg/kg	19	99	25	37	29	16
Nitrobenzene	µg/kg	16 U	31 U	16 U	59 U	32 U	16 U
Pentachlorophenol	µg/kg	71 U	140 U	72 U	270 U	140 U	70 U
Phenanthrene	µg/kg	480	1400	510	2500	800	350
Phenol	µg/kg	9.8 U	19 U	10 U	37 U	20 U	9.7 U
Pyrene	µg/kg	1100	1800	1100	3900	1600	790
Herbicides							
2,4,5-T	µg/kg	17 U	16 U	16 U	15 U	16 U	16 U
2,4,5-TP (Silvex)	µg/kg	18 U	17 U	17 U	16 U	18 U	17 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/kg	63 U	58 U	60 U	56 U	62 U	60 U
Pesticides/PCBs							
4,4'-DDD	µg/kg	1.8 U	9.0 U	1.8 U	1.7 U	1.9 U	1.9 U

Table 2

Analytical Results Summary
Floodplain Soil Sampling
ITW Corporate South Dayton Dump and Landfill
Moraine, Ohio
August 2018

	Location ID:	**SS-169**	**SS-170**	**SS-170**	**SS-171**	**SS-171**	**SS-172**
	Sample Name:	**S-38443-080718-JC-134**	**S-38443-080718-JC-137**	**S-38443-080718-JC-136**	**S-38443-080718-JC-139**	**S-38443-080718-JC-138**	**S-38443-080718-JC-142**
	Sample Date:	**08/07/2018**	**08/07/2018**	**08/07/2018**	**08/07/2018**	**08/07/2018**	**08/07/2018**
	Depth:	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**
Parameters	**Unit**						
Pesticides/PCBs (continued)							
4,4'-DDE	µg/kg	1.9 U	9.2 U	1.8 U	1.7 U	2.5 J	1.9 U
4,4'-DDT	µg/kg	1.4 U	6.9 U	1.4 U	1.3 U	1.4 U	1.4 U
Aldrin	µg/kg	0.96 U	4.7 U	0.94 U	0.88 U	0.98 U	0.96 U
alpha-BHC	µg/kg	1.1 U	5.5 U	1.1 U	1.0 U	1.2 U	1.1 U
alpha-Chlordane	µg/kg	1.9 U	9.1 U	1.8 U	1.7 U	1.9 U	1.9 U
Aroclor-1016 (PCB-1016)	µg/kg	27 U	130 U	27 U	25 U	28 U	28 U
Aroclor-1221 (PCB-1221)	µg/kg	30 U	150 U	29 U	28 U	31 U	30 U
Aroclor-1232 (PCB-1232)	µg/kg	29 U	140 U	28 U	26 U	29 U	29 U
Aroclor-1242 (PCB-1242)	µg/kg	24 U	120 U	23 U	22 U	24 U	24 U
Aroclor-1248 (PCB-1248)	µg/kg	30 U	150 U	29 U	28 U	31 U	30 U
Aroclor-1254 (PCB-1254)	µg/kg	110	860	79	150	65	70
Aroclor-1260 (PCB-1260)	µg/kg	27 U	130 U	27 U	25 U	28 U	28 U
beta-BHC	µg/kg	2.2 U	11 U	2.1 U	2.0 U	2.2 U	2.2 U
delta-BHC	µg/kg	2.1 U	10 U	2.1 U	1.9 U	2.2 U	2.1 U
Dieldrin	µg/kg	1.4 U	6.7 U	1.3 U	1.3 U	1.4 U	1.4 U
Endosulfan I	µg/kg	1.5 U	7.3 U	1.5 U	1.4 U	1.5 U	1.5 U
Endosulfan II	µg/kg	1.8 U	9.0 U	1.8 U	1.7 U	1.9 U	1.9 U
Endosulfan sulfate	µg/kg	1.6 U	7.8 U	1.6 U	1.5 U	1.6 U	1.6 U
Endrin	µg/kg	2.4 U	12 U	2.3 U	2.2 U	2.4 U	2.4 U
Endrin aldehyde	µg/kg	1.6 U	8.0 U	1.6 U	1.5 U	1.7 U	1.6 U
Endrin ketone	µg/kg	1.1 U	5.4 U	1.1 U	1.0 U	1.1 U	1.1 U
gamma-BHC (lindane)	µg/kg	2.2 U	11 U	2.2 U	2.1 U	2.3 U	2.2 U
gamma-Chlordane	µg/kg	1.5 U	7.5 U	1.5 U	1.4 U	1.6 U	1.5 U
Heptachlor	µg/kg	2.0 U	9.6 U	1.9 U	1.8 U	2.0 U	2.0 U
Heptachlor epoxide	µg/kg	1.8 U	8.8 U	1.8 U	1.7 U	1.8 U	1.8 U
Methoxychlor	µg/kg	8.2 U	40 U	8.0 U	7.5 U	8.4 U	8.2 U
Toxaphene	µg/kg	31 U	150 U	30 U	29 U	32 U	31 U
Metals							
Aluminum	mg/kg	8600	9000	7600	6900	7400	9700
Antimony	mg/kg	0.24 J	0.30 J	0.40 J	0.28 J	0.22 J	0.24 J
Arsenic	mg/kg	7.7	8.9	9.2	7.2	7.3	8.6
Barium	mg/kg	120	130	110	97	110	130
Beryllium	mg/kg	0.46	0.55	0.45	0.39	0.44	0.53
Cadmium	mg/kg	0.74	1.9	0.61	0.78	0.54	0.84
Calcium	mg/kg	76000	69000	88000	90000	83000	68000
Chromium	mg/kg	21	43	19	22	16	23
Chromium III (trivalent)	mg/kg	21	43	19	21	16	23
Chromium VI (hexavalent)	mg/kg	0.59 U	0.43 J	0.60 U	0.42 J	0.59 U	0.58 U
Cobalt	mg/kg	6.6	7.3	6.2	5.8	6.3	7.5
Copper	mg/kg	26	45	23	31	23	28

Table 2

Analytical Results Summary
Floodplain Soil Sampling
ITW Corporate South Dayton Dump and Landfill
Moraine, Ohio
August 2018

	Location ID:	**SS-169**	**SS-170**	**SS-170**	**SS-171**	**SS-171**	**SS-172**
	Sample Name:	**S-38443-080718-JC-134**	**S-38443-080718-JC-137**	**S-38443-080718-JC-136**	**S-38443-080718-JC-139**	**S-38443-080718-JC-138**	**S-38443-080718-JC-142**
	Sample Date:	**08/07/2018**	**08/07/2018**	**08/07/2018**	**08/07/2018**	**08/07/2018**	**08/07/2018**
	Depth:	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**
Parameters	**Unit**						
Metals (Continued)							
Iron	mg/kg	17000	18000	16000	16000	17000	19000
Lead	mg/kg	36	92	34	44	29	46
Magnesium	mg/kg	24000	21000	25000	28000	25000	23000
Manganese	mg/kg	520	550	500	470	520	560
Mercury	mg/kg	0.078 J	0.15	0.068 J	0.075 J	0.062 J	0.094 J
Nickel	mg/kg	20	28	18	20	17	23
Potassium	mg/kg	1200	1000	1100	1000	1100	1500
Selenium	mg/kg	1.3	1.3	1.2	1.1	1.3	1.3
Silver	mg/kg	0.39	0.97	0.28	0.41	0.20 J	0.52
Sodium	mg/kg	100 J	94 J	100 J	120 J	110 J	97 J
Thallium	mg/kg	0.30	0.33	0.28	0.23	0.28	0.34
Vanadium	mg/kg	21	22	21	18	19	23
Zinc	mg/kg	100	140	91	110	90	110
General Chemistry							
Cyanide (total)	mg/kg	0.22 U	0.22 U	0.22 U	0.19 U	0.24 U	0.23 U

Notes:

PCBs - Polychlorinated Biphenyls
J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
R - Rejected
ft BGS - Feet below ground surface

Table 2

Analytical Results Summary
Floodplain Soil Sampling
ITW Corporate South Dayton Dump and Landfill
Moraine, Ohio
August 2018

	Location ID:	**SS-172**	**SS-173**	**SS-173**	**SS-174**	**SS-174**	**SS-174**
	Sample Name:	**S-38443-080718-JC-141**	**S-38443-080818-JC-144**	**S-38443-080818-JC-143**	**S-38443-080818-JC-146**	**S-38443-080818-JC-147**	**S-38443-080818-JC-145**
	Sample Date:	**08/07/2018**	**08/08/2018**	**08/08/2018**	**08/08/2018**	**08/08/2018**	**08/08/2018**
	Depth:	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**
Parameters	**Unit**						
Volatile Organic Compounds							
1,1,1-Trichloroethane	µg/kg	0.99 U	0.94 U	0.87 U	0.83 U	0.88 U	0.92 U
1,1,2,2-Tetrachloroethane	µg/kg	1.7 U	1.6 U	1.5 U	1.5 U	1.5 U	1.6 U
1,1,2-Trichloroethane	µg/kg	1.4 U	1.3 U	1.2 U	1.1 U	1.2 U	1.3 U
1,1-Dichloroethane	µg/kg	0.84 U	0.80 U	0.73 U	0.70 U	0.74 U	0.78 U
1,1-Dichloroethene	µg/kg	1.1 U	1.0 U	0.95 U	0.92 U	0.97 U	1.0 U
1,2,4-Trichlorobenzene	µg/kg	0.69 U	0.66 U	0.60 U	0.58 U	0.61 U	0.64 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	4.4 U	4.2 U	3.8 U	3.7 U	3.9 U	4.1 U
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	0.93 U	0.89 U	0.81 U	0.78 U	0.83 U	0.87 U
1,2-Dichlorobenzene	µg/kg	1.3 U	1.3 U	1.2 U	1.1 U	1.2 U	1.3 U
1,2-Dichloroethane	µg/kg	0.93 U	0.89 U	0.81 U	0.78 U	0.83 U	0.87 U
1,2-Dichloropropane	µg/kg	1.0 U	0.98 U	0.90 U	0.86 U	0.91 U	0.96 U
1,3-Dichlorobenzene	µg/kg	0.99 U	0.94 U	0.86 U	0.83 U	0.87 U	0.92 U
1,4-Dichlorobenzene	µg/kg	1.1 U	1.0 U	0.93 U	0.89 U	0.95 U	0.99 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	4.3 U	4.1 U	3.8 U	3.6 U	3.8 U	4.0 U
2-Hexanone	µg/kg	4.9 U	4.7 U	4.3 U	4.1 U	4.4 U	4.6 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	4.5 U	4.3 U	3.9 U	3.8 U	4.0 U	4.2 U
Acetone	µg/kg	25 U	64	22 J	21 U	38	24 U
Benzene	µg/kg	0.84 U	0.80 U	0.74 U	0.71 U	0.75 U	0.79 U
Bromodichloromethane	µg/kg	0.82 U	0.78 U	0.72 U	0.69 U	0.73 U	0.77 U
Bromoform	µg/kg	2.9 U	2.8 U	2.5 U	2.4 U	2.6 U	2.7 U
Bromomethane (Methyl bromide)	µg/kg	1.2 U	1.1 U	1.0 U	1.0 U	1.1 U	1.1 U
Carbon disulfide	µg/kg	1.4 U	1.3 U	1.2 U	1.2 U	1.2 U	1.3 U
Carbon tetrachloride	µg/kg	3.9 U	3.7 U	3.4 U	3.3 U	3.5 U	3.7 U
Chlorobenzene	µg/kg	1.1 U	1.1 U	0.97 U	0.93 U	0.98 U	1.0 U
Chloroethane	µg/kg	1.5 U	1.4 U	1.3 U	1.2 U	1.3 U	1.4 U
Chloroform (Trichloromethane)	µg/kg	0.95 U	0.91 U	0.83 U	0.80 U	0.84 U	0.89 U
Chloromethane (Methyl chloride)	µg/kg	1.3 U	1.2 U	1.1 U	1.1 U	1.1 U	1.2 U
cis-1,2-Dichloroethene	µg/kg	0.79 U	0.75 U	0.69 U	0.66 U	0.70 U	0.73 U
cis-1,3-Dichloropropene	µg/kg	1.7 U	1.7 U	1.5 U	1.5 U	1.5 U	1.6 U
Cyclohexane	µg/kg	1.7 U	1.6 U	1.5 U	1.4 U	1.5 U	1.5 U
Dibromochloromethane	µg/kg	3.4 U	3.2 U	2.9 U	2.8 U	3.0 U	3.1 U
Dichlorodifluoromethane (CFC-12)	µg/kg	1.1 U	1.1 U	1.0 U	0.96 U	1.0 U	1.1 U
Ethylbenzene	µg/kg	1.3 U	1.2 U	1.1 U	1.1 U	1.1 U	1.2 U
Isopropyl benzene	µg/kg	1.0 U	0.96 U	0.88 U	0.84 U	0.89 U	0.94 U
Methyl acetate	µg/kg	4.1 U	3.9 U	3.6 U	3.4 U	3.6 U	3.8 U
Methyl cyclohexane	µg/kg	1.5 U	1.4 U	1.3 U	1.2 U	1.3 U	1.4 U
Methyl tert butyl ether (MTBE)	µg/kg	0.99 U	0.94 U	0.87 U	0.83 U	0.88 U	0.92 U
Methylene chloride	µg/kg	15 U	14 U	13 U	12 U	13 U	14 U
Styrene	µg/kg	1.4 U	1.3 U	1.2 U	1.2 U	1.2 U	1.3 U
Tetrachloroethene	µg/kg	0.88 U	0.84 U	0.77 U	0.74 U	0.78 U	0.82 U
Toluene	µg/kg	0.93 U	0.89 U	0.82 U	0.78 U	0.83 U	0.87 U

Table 2

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Moraine, Ohio
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	Location ID:	**SS-172**	**SS-173**	**SS-173**	**SS-174**	**SS-174**	**SS-174**
	Sample Name:	**S-38443-080718-JC-141**	**S-38443-080818-JC-144**	**S-38443-080818-JC-143**	**S-38443-080818-JC-146**	**S-38443-080818-JC-147**	**S-38443-080818-JC-145**
	Sample Date:	**08/07/2018**	**08/08/2018**	**08/08/2018**	**08/08/2018**	**08/08/2018**	**08/08/2018**
	Depth:	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**
Parameters	**Unit**						
Volatile Organic Compounds (Continued)							
trans-1,2-Dichloroethene	µg/kg	0.56 U	0.54 U	0.49 U	0.47 U	0.50 U	0.52 U
trans-1,3-Dichloropropene	µg/kg	1.3 U	1.2 U	1.1 U	1.0 U	1.1 U	1.2 U
Trichloroethene	µg/kg	0.77 U	0.73 U	0.67 U	0.64 U	0.68 U	0.71 U
Trichlorofluoromethane (CFC-11)	µg/kg	1.3 U	1.2 U	1.1 U	1.1 U	1.2 U	1.2 U
Trifluorotrichloroethane (CFC-113)	µg/kg	1.6 U	1.5 U	1.4 U	1.3 U	1.4 U	1.4 U
Vinyl chloride	µg/kg	1.0 U	0.96 U	0.88 U	0.85 U	0.90 U	0.94 U
Xylenes (total)	µg/kg	1.9 U	1.8 U	1.7 U	1.6 U	1.7 U	1.8 U
Semi-volatile Organic Compounds							
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	12 U	11 U	24 U	24 U	24 U	25 U
2,4,5-Trichlorophenol	µg/kg	84 U	76 U	160 U	160 U	160 U	170 U
2,4,6-Trichlorophenol	µg/kg	77 U	70 U	150 U	150 U	150 U	160 U
2,4-Dichlorophenol	µg/kg	53 U	48 U	100 U	100 U	100 U	110 U
2,4-Dimethylphenol	µg/kg	48 U	44 U	94 U	94 U	94 U	98 U
2,4-Dinitrophenol	µg/kg	170 U	160 U	330 U	330 U	330 U	350 U
2,4-Dinitrotoluene	µg/kg	75 U	68 U	150 U	150 U	150 U	150 U
2,6-Dinitrotoluene	µg/kg	68 U	62 U	130 U	130 U	130 U	140 U
2-Chloronaphthalene	µg/kg	17 U	15 U	33 U	33 U	33 U	34 U
2-Chlorophenol	µg/kg	12 U	11 U	24 U	24 U	24 U	25 U
2-Methylnaphthalene	µg/kg	13	34	33	16	21	15 J
2-Methylphenol	µg/kg	38 U	34 U	73 U	73 U	73 U	76 U
2-Nitroaniline	µg/kg	48 U	44 U	94 U	94 U	94 U	98 U
2-Nitrophenol	µg/kg	16 U	14 U	31 U	31 U	31 U	32 U
3&4-Methylphenol	µg/kg	35 U	32 U	68 U	68 U	68 U	71 U
3,3'-Dichlorobenzidine	µg/kg	52 U	47 U	100 U	100 U	100 U	110 U
3-Nitroaniline	µg/kg	59 U	54 U	120 U	120 U	120 U	120 U
4,6-Dinitro-2-methylphenol	µg/kg	97 U	88 U	190 U	190 U	190 U	200 U
4-Bromophenyl phenyl ether	µg/kg	17 U	15 U	33 U	33 U	33 U	34 U
4-Chloro-3-methylphenol	µg/kg	54 U	49 U	110 U	110 U	110 U	110 U
4-Chloroaniline	µg/kg	36 U	33 U	71 U	71 U	71 U	74 U
4-Chlorophenyl phenyl ether	µg/kg	17 U	15 U	33 U	33 U	33 U	34 U
4-Nitroaniline	µg/kg	73 U	66 U	140 U	140 U	140 U	150 U
4-Nitrophenol	µg/kg	110 U	100 U	220 U	220 U	220 U	230 U
Acenaphthene	µg/kg	16	22	150	36	54	31
Acenaphthylene	µg/kg	32	42	38	37	37	38
Acetophenone	µg/kg	13 U	12 U	26 U	26 U	26 U	27 U
Anthracene	µg/kg	60	150	270	110	160	91
Atrazine	µg/kg	44 U	40 U	85 U	85 U	85 U	88 U
Benzaldehyde	µg/kg	28 U	25 U	54 U	54 U	54 U	56 U
Benzo(a)anthracene	µg/kg	380	510	960	580	780	590
Benzo(a)pyrene	µg/kg	430	580	1000	750	940	820

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Moraine, Ohio
August 2018

	Location ID:	**SS-172**	**SS-173**	**SS-173**	**SS-174**	**SS-174**	**SS-174**
	Sample Name:	**S-38443-080718-JC-141**	**S-38443-080818-JC-144**	**S-38443-080818-JC-143**	**S-38443-080818-JC-146**	**S-38443-080818-JC-147**	**S-38443-080818-JC-145**
	Sample Date:	**08/07/2018**	**08/08/2018**	**08/08/2018**	**08/08/2018**	**08/08/2018**	**08/08/2018**
	Depth:	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**
Parameters	**Unit**						
Semi -volatile Organic Compounds (Continued)							
Benzo(b)fluoranthene	µg/kg	870	790	1500	1200	1500	1200
Benzo(g,h,i)perylene	µg/kg	240	300	490	440	530	560
Benzo(k)fluoranthene	µg/kg	280	220	350	360	440	350
Biphenyl (1,1-Biphenyl)	µg/kg	21 U	19 U	40 U	40 U	40 U	42 U
bis(2-Chloroethoxy)methane	µg/kg	15 U	13 U	28 U	28 U	28 U	29 U
bis(2-Chloroethyl)ether	µg/kg	15 U	13 U	28 U	28 U	28 U	29 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	100	160	120 J	140 J	140 J	150 J
Butyl benzylphthalate (BBP)	µg/kg	27 U	24 U	52 U	52 U	52 U	54 U
Caprolactam	µg/kg	91 U	82 U	180 U	180 U	180 U	180 U
Carbazole	µg/kg	56 J	57	250	86 J	110 J	81 J
Chrysene	µg/kg	520	540	1100	760	1000	840
Di-n-butylphthalate (DBP)	µg/kg	27 U	26 J	52 U	52 U	52 U	54 U
Di-n-octyl phthalate (DnOP)	µg/kg	34 U	31 U	66 U	66 U	66 U	69 U
Dibenz(a,h)anthracene	µg/kg	0.80 U	76	110	89	140	110
Dibenzofuran	µg/kg	16 J	29 J	100 J	31 U	47 J	32 U
Diethyl phthalate	µg/kg	38 U	34 U	73 U	73 U	73 U	76 U
Dimethyl phthalate	µg/kg	17 U	15 U	33 U	33 U	33 U	34 U
Fluoranthene	µg/kg	950	1400	2800	1700	2400	1600
Fluorene	µg/kg	18	35	150	42	75	35
Hexachlorobenzene	µg/kg	2.5 U	2.3 U	4.9 U	4.9 U	4.9 U	5.1 U
Hexachlorobutadiene	µg/kg	15 U	13 U	28 U	28 U	28 U	29 U
Hexachlorocyclopentadiene	µg/kg	75 U	68 U	150 U	150 U	150 U	150 U
Hexachloroethane	µg/kg	11 U	9.9 U	21 U	21 U	21 U	22 U
Indeno(1,2,3-cd)pyrene	µg/kg	230	290	470	390	500	510
Isophorone	µg/kg	15 U	13 U	28 U	28 U	28 U	29 U
N-Nitrosodi-n-propylamine	µg/kg	13 U	12 U	26 U	26 U	26 U	27 U
N-Nitrosodiphenylamine	µg/kg	15 U	13 U	28 U	28 U	28 U	29 U
Naphthalene	µg/kg	10	40	54	21	24	20
Nitrobenzene	µg/kg	16 U	14 U	31 U	31 U	31 U	32 U
Pentachlorophenol	µg/kg	70 U	64 U	140 U	140 U	140 U	140 U
Phenanthrene	µg/kg	350	630	1900	730	1300	610
Phenol	µg/kg	15 J	8.8 U	19 U	19 U	19 U	20 U
Pyrene	µg/kg	830	890	1700	1100	1500	1200
Herbicides							
2,4,5-T	µg/kg	16 U	14 U	15 U	16 U	15 U	16 U
2,4,5-TP (Silvex)	µg/kg	17 U	15 U	16 U	17 U	16 U	17 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/kg	60 U	54 U	57 U	59 U	57 U	61 U
Pesticides/PCBs							
4,4'-DDD	µg/kg	1.7 U	7.9 U	1.8 U	9.0 U	9.2 U	9.4 U

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	Location ID:	**SS-172**	**SS-173**	**SS-173**	**SS-174**	**SS-174**	**SS-174**
	Sample Name:	**S-38443-080718-JC-141**	**S-38443-080818-JC-144**	**S-38443-080818-JC-143**	**S-38443-080818-JC-146**	**S-38443-080818-JC-147**	**S-38443-080818-JC-145**
	Sample Date:	**08/07/2018**	**08/08/2018**	**08/08/2018**	**08/08/2018**	**08/08/2018**	**08/08/2018**
	Depth:	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**
Parameters	**Unit**						
Pesticides/PCBs (continued)							
4,4'-DDE	µg/kg	1.7 U	8.1 U	1.9 U	9.2 U	9.4 U	9.6 U
4,4'-DDT	µg/kg	1.3 U	6.1 U	17 J	6.9 U	7.0 U	7.2 U
Aldrin	µg/kg	0.89 U	4.1 U	0.95 U	4.7 U	4.8 U	4.9 U
alpha-BHC	µg/kg	1.1 U	4.9 U	1.1 U	5.5 U	5.6 U	5.8 U
alpha-Chlordane	µg/kg	1.7 U	11 J	2.5 J	9.1 U	9.3 U	9.5 U
Aroclor-1016 (PCB-1016)	µg/kg	25 U	24 U	27 U	27 U	27 U	28 U
Aroclor-1221 (PCB-1221)	µg/kg	28 U	26 U	30 U	29 U	30 U	30 U
Aroclor-1232 (PCB-1232)	µg/kg	27 U	25 U	28 U	28 U	29 U	29 U
Aroclor-1242 (PCB-1242)	µg/kg	22 U	20 U	23 U	23 U	24 U	24 U
Aroclor-1248 (PCB-1248)	µg/kg	28 U	26 U	30 U	29 U	30 U	30 U
Aroclor-1254 (PCB-1254)	µg/kg	60	360	110	63	53 J	51 J
Aroclor-1260 (PCB-1260)	µg/kg	25 U	24 U	27 U	27 U	27 U	28 U
beta-BHC	µg/kg	2.0 U	9.3 U	2.1 U	10 U	11 U	11 U
delta-BHC	µg/kg	2.0 U	9.1 U	2.1 U	10 U	10 U	11 U
Dieldrin	µg/kg	1.3 U	5.9 U	1.4 U	6.7 U	6.8 U	7.0 U
Endosulfan I	µg/kg	1.4 U	6.4 U	1.5 U	7.3 U	7.4 U	7.6 U
Endosulfan II	µg/kg	1.7 U	7.9 U	1.8 U	9.0 U	9.2 U	9.4 U
Endosulfan sulfate	µg/kg	1.5 U	6.9 U	1.6 U	7.8 U	7.9 U	8.1 U
Endrin	µg/kg	2.2 U	10 U	2.3 U	12 U	12 U	12 U
Endrin aldehyde	µg/kg	1.5 U	7.0 U	1.6 U	7.9 U	8.1 U	8.3 U
Endrin ketone	µg/kg	1.0 U	4.8 U	1.1 U	5.4 U	5.5 U	5.6 U
gamma-BHC (lindane)	µg/kg	2.1 U	9.6 U	2.2 U	11 U	11 U	11 U
gamma-Chlordane	µg/kg	1.4 U	6.6 U	1.5 NJ	7.5 U	7.6 U	7.8 U
Heptachlor	µg/kg	1.8 U	8.5 U	1.9 U	9.6 U	9.8 U	10 U
Heptachlor epoxide	µg/kg	1.7 U	7.7 U	1.8 U	8.7 U	8.9 U	9.1 U
Methoxychlor	µg/kg	7.6 U	35 U	8.1 U	40 U	41 U	42 U
Toxaphene	µg/kg	51 J	130 U	31 U	150 U	160 U	160 U
Metals							
Aluminum	mg/kg	7900	4300	8100	5000	4800	7000
Antimony	mg/kg	0.21 J	0.20 J	0.26 J	0.14 J	0.13 J	0.17 J
Arsenic	mg/kg	6.8	4.8	7.2	4.8	4.7	6.2
Barium	mg/kg	110	61	110	74	77	110
Beryllium	mg/kg	0.44	0.30	0.73	0.31	0.31	0.45
Cadmium	mg/kg	0.49	0.82	0.93	0.42	0.39	0.49
Calcium	mg/kg	79000	96000	72000	90000	93000	83000
Chromium	mg/kg	17	19	24	13	13	15
Chromium III (trivalent)	mg/kg	17	18	24	13	13	15
Chromium VI (hexavalent)	mg/kg	0.58 U	0.55 J	0.57 U	0.56 U	0.57 U	0.59 U
Cobalt	mg/kg	6.1	3.5 J	5.9	3.7	3.9	5.2
Copper	mg/kg	21	21 J	25	16	15	20

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Analytical Results Summary
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Moraine, Ohio
August 2018

	Location ID:	**SS-172**	**SS-173**	**SS-173**	**SS-174**	**SS-174**	**SS-174**
	Sample Name:	**S-38443-080718-JC-141**	**S-38443-080818-JC-144**	**S-38443-080818-JC-143**	**S-38443-080818-JC-146**	**S-38443-080818-JC-147**	**S-38443-080818-JC-145**
	Sample Date:	**08/07/2018**	**08/08/2018**	**08/08/2018**	**08/08/2018**	**08/08/2018**	**08/08/2018**
	Depth:	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**
Parameters	**Unit**						
Metals (Continued)							
Iron	mg/kg	16000	9300 J	15000	10000	10000	14000
Lead	mg/kg	27	52 J	46	27	22	25
Magnesium	mg/kg	25000	29000 J	24000	27000	27000	25000
Manganese	mg/kg	460	350 J	500	370	390	510
Mercury	mg/kg	0.060 J	0.057 J	0.093 J	0.056 J	0.049 J	0.071 J
Nickel	mg/kg	17	12 J	19 J	11 J	11 J	14 J
Potassium	mg/kg	1300	520 J	1000 J	610 J	610 J	910 J
Selenium	mg/kg	1.1	0.53 J	0.97 J	0.73 J	0.66 J	0.92 J
Silver	mg/kg	0.19 J	0.31 J	0.55 J	0.20 J	0.21 J	0.19 J
Sodium	mg/kg	100 J	130 J	110 J	130 J	120 J	120 J
Thallium	mg/kg	0.26	0.15 J	0.27	0.17 J	0.17 J	0.24
Vanadium	mg/kg	20	12	19	14	14	17
Zinc	mg/kg	85	69	97	59	59	75
General Chemistry							
Cyanide (total)	mg/kg	0.22 U	0.19 U	0.22 U	0.24 U	0.21 U	0.22 U

Notes:

PCBs - Polychlorinated Biphenyls
J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
R - Rejected
ft BGS - Feet below ground surface

Table 2

Analytical Results Summary
Floodplain Soil Sampling
ITW Corporate South Dayton Dump and Landfill
Moraine, Ohio
August 2018

	Location ID:	**SS-175**	**SS-175**
	Sample Name:	**S-38443-080818-JC-149**	**S-38443-080818-JC-148**
	Sample Date:	**08/08/2018**	**08/08/2018**
	Depth:	**0.5-2 ft BGS**	**0-0.5 ft BGS**
Parameters	**Unit**		
Volatile Organic Compounds			
1,1,1-Trichloroethane	µg/kg	0.88 U	0.98 U
1,1,2,2-Tetrachloroethane	µg/kg	1.5 U	1.7 U
1,1,2-Trichloroethane	µg/kg	1.2 U	1.4 U
1,1-Dichloroethane	µg/kg	0.74 U	0.83 U
1,1-Dichloroethene	µg/kg	0.97 U	1.1 U
1,2,4-Trichlorobenzene	µg/kg	0.61 U	0.68 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	3.9 U	4.3 U
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	0.82 U	0.92 U
1,2-Dichlorobenzene	µg/kg	1.2 U	1.3 U
1,2-Dichloroethane	µg/kg	0.83 U	0.92 U
1,2-Dichloropropane	µg/kg	0.91 U	1.0 U
1,3-Dichlorobenzene	µg/kg	0.87 U	0.98 U
1,4-Dichlorobenzene	µg/kg	0.94 U	1.1 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	3.8 U	4.3 U
2-Hexanone	µg/kg	4.4 U	4.9 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	4.0 U	4.4 U
Acetone	µg/kg	22 U	25 U
Benzene	µg/kg	0.75 U	0.83 U
Bromodichloromethane	µg/kg	0.73 U	0.81 U
Bromoform	µg/kg	2.6 U	2.9 U
Bromomethane (Methyl bromide)	µg/kg	1.1 U	1.2 U
Carbon disulfide	µg/kg	1.2 U	1.4 U
Carbon tetrachloride	µg/kg	3.5 U	3.9 U
Chlorobenzene	µg/kg	0.98 U	1.1 U
Chloroethane	µg/kg	1.3 U	1.5 U
Chloroform (Trichloromethane)	µg/kg	0.84 U	0.94 U
Chloromethane (Methyl chloride)	µg/kg	1.1 U	1.2 U
cis-1,2-Dichloroethene	µg/kg	0.70 U	0.78 U
cis-1,3-Dichloropropene	µg/kg	1.5 U	1.7 U
Cyclohexane	µg/kg	1.5 U	1.6 U
Dibromochloromethane	µg/kg	3.0 U	3.3 U
Dichlorodifluoromethane (CFC-12)	µg/kg	1.0 U	1.1 U
Ethylbenzene	µg/kg	1.1 U	1.3 U
Isopropyl benzene	µg/kg	0.89 U	0.99 U
Methyl acetate	µg/kg	3.6 U	4.1 U
Methyl cyclohexane	µg/kg	1.3 U	1.5 U
Methyl tert butyl ether (MTBE)	µg/kg	0.88 U	0.98 U
Methylene chloride	µg/kg	13 U	14 U
Styrene	µg/kg	1.2 U	1.4 U
Tetrachloroethene	µg/kg	0.78 U	0.87 U
Toluene	µg/kg	0.83 U	0.92 U

Table 2

Analytical Results Summary
Floodplain Soil Sampling
ITW Corporate South Dayton Dump and Landfill
Moraine, Ohio
August 2018

	Location ID:	**SS-175**	**SS-175**
	Sample Name:	**S-38443-080818-JC-149**	**S-38443-080818-JC-148**
	Sample Date:	**08/08/2018**	**08/08/2018**
	Depth:	**0.5-2 ft BGS**	**0-0.5 ft BGS**
Parameters	**Unit**		
Volatile Organic Compounds (Continued)			
trans-1,2-Dichloroethene	µg/kg	0.50 U	0.56 U
trans-1,3-Dichloropropene	µg/kg	1.1 U	1.2 U
Trichloroethene	µg/kg	0.68 U	0.76 U
Trichlorofluoromethane (CFC-11)	µg/kg	1.2 U	1.3 U
Trifluorotrichloroethane (CFC-113)	µg/kg	1.4 U	1.5 U
Vinyl chloride	µg/kg	0.90 U	1.0 U
Xylenes (total)	µg/kg	1.7 U	1.9 U
Semi-volatile Organic Compounds			
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	12 U	50 U
2,4,5-Trichlorophenol	µg/kg	84 U	340 U
2,4,6-Trichlorophenol	µg/kg	77 U	320 U
2,4-Dichlorophenol	µg/kg	53 U	220 U
2,4-Dimethylphenol	µg/kg	48 U	200 U
2,4-Dinitrophenol	µg/kg	170 U	710 U
2,4-Dinitrotoluene	µg/kg	75 U	310 U
2,6-Dinitrotoluene	µg/kg	68 U	280 U
2-Chloronaphthalene	µg/kg	17 U	70 U
2-Chlorophenol	µg/kg	12 U	50 U
2-Methylnaphthalene	µg/kg	11	27 J
2-Methylphenol	µg/kg	38 U	150 U
2-Nitroaniline	µg/kg	48 U	200 U
2-Nitrophenol	µg/kg	16 U	65 U
3&4-Methylphenol	µg/kg	35 U	140 U
3,3'-Dichlorobenzidine	µg/kg	52 U	210 U
3-Nitroaniline	µg/kg	59 U	240 U
4,6-Dinitro-2-methylphenol	µg/kg	97 U	400 U
4-Bromophenyl phenyl ether	µg/kg	17 U	70 U
4-Chloro-3-methylphenol	µg/kg	54 U	220 U
4-Chloroaniline	µg/kg	36 U	150 U
4-Chlorophenyl phenyl ether	µg/kg	17 U	70 U
4-Nitroaniline	µg/kg	73 U	300 U
4-Nitrophenol	µg/kg	110 U	470 U
Acenaphthene	µg/kg	4.5 J	45
Acenaphthylene	µg/kg	11	32 J
Acetophenone	µg/kg	13 U	55 U
Anthracene	µg/kg	18	100
Atrazine	µg/kg	44 U	180 U
Benzaldehyde	µg/kg	28 U	110 U
Benzo(a)anthracene	µg/kg	100	520
Benzo(a)pyrene	µg/kg	130	610

Table 2

Analytical Results Summary
Floodplain Soil Sampling
ITW Corporate South Dayton Dump and Landfill
Moraine, Ohio
August 2018

	Location ID:	**SS-175**	**SS-175**
	Sample Name:	**S-38443-080818-JC-149**	**S-38443-080818-JC-148**
	Sample Date:	**08/08/2018**	**08/08/2018**
	Depth:	**0.5-2 ft BGS**	**0-0.5 ft BGS**
Parameters	**Unit**		
Semi -volatile Organic Compounds (Continued)			
Benzo(b)fluoranthene	µg/kg	190	980
Benzo(g,h,i)perylene	µg/kg	110	380
Benzo(k)fluoranthene	µg/kg	67	210
Biphenyl (1,1-Biphenyl)	µg/kg	21 U	85 U
bis(2-Chloroethoxy)methane	µg/kg	15 U	60 U
bis(2-Chloroethyl)ether	µg/kg	15 U	60 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	120	250 U
Butyl benzylphthalate (BBP)	µg/kg	27 U	110 J
Caprolactam	µg/kg	91 U	370 U
Carbazole	µg/kg	23 U	95 U
Chrysene	µg/kg	140	630
Di-n-butylphthalate (DBP)	µg/kg	27 U	110 U
Di-n-octyl phthalate (DnOP)	µg/kg	34 U	140 U
Dibenz(a,h)anthracene	µg/kg	17	3.3 U
Dibenzofuran	µg/kg	16 U	65 U
Diethyl phthalate	µg/kg	38 U	150 U
Dimethyl phthalate	µg/kg	17 U	70 U
Fluoranthene	µg/kg	200	1300
Fluorene	µg/kg	5.3 J	42
Hexachlorobenzene	µg/kg	2.5 U	10 U
Hexachlorobutadiene	µg/kg	15 U	60 U
Hexachlorocyclopentadiene	µg/kg	R	310 U
Hexachloroethane	µg/kg	11 U	45 U
Indeno(1,2,3-cd)pyrene	µg/kg	90	370
Isophorone	µg/kg	15 U	60 U
N-Nitrosodi-n-propylamine	µg/kg	13 U	55 U
N-Nitrosodiphenylamine	µg/kg	15 U	60 U
Naphthalene	µg/kg	37 U	31 J
Nitrobenzene	µg/kg	16 U	65 U
Pentachlorophenol	µg/kg	70 U	290 U
Phenanthrene	µg/kg	83	690
Phenol	µg/kg	9.7 U	40 U
Pyrene	µg/kg	190	940
Herbicides			
2,4,5-T	µg/kg	16 U	16 U
2,4,5-TP (Silvex)	µg/kg	17 U	17 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/kg	59 U	59 U
Pesticides/PCBs			
4,4'-DDD	µg/kg	9.0 U	9.4 U

Table 2

Analytical Results Summary
Floodplain Soil Sampling
ITW Corporate South Dayton Dump and Landfill
Moraine, Ohio
August 2018

	Location ID:	**SS-175**	**SS-175**
	Sample Name:	**S-38443-080818-JC-149**	**S-38443-080818-JC-148**
	Sample Date:	**08/08/2018**	**08/08/2018**
	Depth:	**0.5-2 ft BGS**	**0-0.5 ft BGS**
Parameters	**Unit**		
Pesticides/PCBs (continued)			
4,4'-DDE	µg/kg	9.2 U	9.5 U
4,4'-DDT	µg/kg	6.9 U	7.1 U
Aldrin	µg/kg	4.7 U	4.9 U
alpha-BHC	µg/kg	5.5 U	5.7 U
alpha-Chlordane	µg/kg	9.1 U	9.5 U
Aroclor-1016 (PCB-1016)	µg/kg	27 U	28 U
Aroclor-1221 (PCB-1221)	µg/kg	29 U	30 U
Aroclor-1232 (PCB-1232)	µg/kg	28 U	29 U
Aroclor-1242 (PCB-1242)	µg/kg	23 U	24 U
Aroclor-1248 (PCB-1248)	µg/kg	29 U	30 U
Aroclor-1254 (PCB-1254)	µg/kg	120	300
Aroclor-1260 (PCB-1260)	µg/kg	27 U	28 U
beta-BHC	µg/kg	11 U	11 U
delta-BHC	µg/kg	10 U	11 U
Dieldrin	µg/kg	6.7 U	6.9 U
Endosulfan I	µg/kg	7.3 U	7.6 U
Endosulfan II	µg/kg	9.0 U	9.4 U
Endosulfan sulfate	µg/kg	7.8 U	8.1 U
Endrin	µg/kg	12 U	12 U
Endrin aldehyde	µg/kg	8.0 U	8.3 U
Endrin ketone	µg/kg	5.4 U	5.6 U
gamma-BHC (lindane)	µg/kg	11 U	11 U
gamma-Chlordane	µg/kg	7.5 U	7.8 U
Heptachlor	µg/kg	9.6 U	10 U
Heptachlor epoxide	µg/kg	8.8 U	9.1 U
Methoxychlor	µg/kg	40 U	41 U
Toxaphene	µg/kg	150 U	160 U
Metals			
Aluminum	mg/kg	4300	7300
Antimony	mg/kg	0.17 J	0.18 J
Arsenic	mg/kg	5.1	6.1
Barium	mg/kg	89	100
Beryllium	mg/kg	0.31	0.48
Cadmium	mg/kg	0.56	0.89
Calcium	mg/kg	100000	73000
Chromium	mg/kg	12	24
Chromium III (trivalent)	mg/kg	12	24
Chromium VI (hexavalent)	mg/kg	0.29 U	0.60 U
Cobalt	mg/kg	3.6	5.0
Copper	mg/kg	16	27

Table 2

Analytical Results Summary
Floodplain Soil Sampling
ITW Corporate South Dayton Dump and Landfill
Moraine, Ohio
August 2018

	Location ID:	**SS-175**	**SS-175**
	Sample Name:	**S-38443-080818-JC-149**	**S-38443-080818-JC-148**
	Sample Date:	**08/08/2018**	**08/08/2018**
	Depth:	**0.5-2 ft BGS**	**0-0.5 ft BGS**
Parameters	**Unit**		
Metals (Continued)			
Iron	mg/kg	9300	13000
Lead	mg/kg	19	54
Magnesium	mg/kg	22000	22000
Manganese	mg/kg	360	410
Mercury	mg/kg	0.038 J	0.10 J
Nickel	mg/kg	10 J	17 J
Potassium	mg/kg	460 J	810 J
Selenium	mg/kg	0.59 J	0.80 J
Silver	mg/kg	0.18 J	0.49 J
Sodium	mg/kg	130 J	110 J
Thallium	mg/kg	0.13 J	0.23
Vanadium	mg/kg	12 J	18
Zinc	mg/kg	40 J	89
General Chemistry			
Cyanide (total)	mg/kg	0.23 U	0.25 U

Notes:

PCBs - Polychlorinated Biphenyls
J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
R - Rejected
ft BGS - Feet below ground surface

Table 3

Analytical Methods
Floodplain Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
August 2018

Parameter	Method	Matrix	Holding Time	
			Collection to Extraction (Days)	Collection or Extraction to Analysis (Days)
Volatile Organic Compounds (VOCs)	SW-846 8260B	Soil	48 hours	14
Semi-Volatile Organic Compounds (SVOCs)	SW-846 8270C	Soil	14	40
Organochlorine Pesticides	SW-846 8081A	Soil	14	40
Polychlorinated Biphenyls (PCBs)	SW-846 8082A	Soil	14	40
Herbicides	SW-846 8151	Soil	14	40
Metals	SW-846 6020	Soil	-	180
Mercury	SW-846 7471A	Soil	-	28
Cyanide	SW-846 9012B	Soil	-	14

Notes:

SW-846 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, 1986, with subsequent revisions
- - Not applicable

Table 4

Qualified Sample Results Due to Analyte Concentrations in the Method Blanks
Floodplain Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
August 2018

Parameter	Analyte	Analysis Date (mm/dd/yyyy)	Blank Result *	Raw Blank Result	Sample ID	Original Result	Qualified Result	Units
VOCs	1,2,4-Trichlorobenzene	08/16/2018	1.3 J	1.03 J	S-38443-080718-JC-134	2.1 J	2.1 U	µg/Kg
			1.3 J	1.03 J	S-38443-080718-JC-135	0.72 J	1.3 U	µg/Kg
Metals	Beryllium	08/24/2018	0.06 J	0.053 J	S-38443-080718-JC-130	0.24	0.24 U	mg/Kg

Notes:

* - Blank result adjusted for moisture
U - Not detected at the associated reporting limit
J - Estimated concentration
VOCs - Volatile Organic Compounds

Table 5

Qualified Sample Data Due to Outlying of Surrogate Recoveries
Floodplain Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
August 2018

Parameter	Sample ID	Surrogate	Surrogate % Recovery	Control Limits % Recovery	Analyte	Qualified Result	Units
Pesticides	S-38443-080718-JC-138	(PCB 209) Decachlorobiphenyl	136	13-135	4,4'-DDE	2.5 J	µg/Kg
Pesticides	S-38443-080718-JC-141	(PCB 209) Decachlorobiphenyl	139	13-135	Toxaphene	51 J	µg/Kg

Notes:

J - Estimated concentration

Table 6

Qualified Sample Results Due to Outlying MS/MSD Results
Floodplain Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
August 2018

Parameter	Sample ID	Analyte	MS % Recovery	MSD % Recovery	RPD (percent)	Control Limits % Recovery	Control Limits RPD	Qualified Result	Units
VOCs	S-38443-080718-JC-128	Methyl acetate	29	12	80	14-151	40	3.9 UJ	µg/Kg
SVOCs	S-38443-080718-JC-128	Hexachlorocyclopentadiene	0	0	NC	10-120	40	R	µg/Kg
SVOCs	S-38443-080818-JC-149	Hexachlorocyclopentadiene	0	0	NC	10-120	40	R	µg/Kg
Pesticides	S-38443-080718-JC-128	4,4'-DDD	56	9	143	27-120	40	R	µg/Kg
		4,4'-DDE	57	9	143	25-120	40	R	µg/Kg
		4,4'-DDT	58	9	147	19-125	40	R	µg/Kg
		Aldrin	58	10	142	15-120	40	0.91 UJ	µg/Kg
		alpha-BHC	60	10	144	30-120	40	1.1 UJ	µg/Kg
		alpha-Chlordane	56	10	140	28-120	40	1.8 UJ	µg/Kg
		beta-BHC	59	12	132	20-120	40	2.1 UJ	µg/Kg
		delta-BHC	59	10	140	20-120	40	2.0 UJ	µg/Kg
		Dieldrin	57	10	142	29-120	40	1.3 UJ	µg/Kg
		Endosulfan I	42	7	143	10-120	40	R	µg/Kg
		Endosulfan II	46	8	140	21-120	40	R	µg/Kg
		Endosulfan sulfate	62	9	148	27-120	40	R	µg/Kg
		Endrin	58	9	144	26-129	40	R	µg/Kg
		Endrin aldehyde	47	8	139	18-120	40	R	µg/Kg
		Endrin ketone	58	13	122	28-120	40	1.1 UJ	µg/Kg
		gamma-BHC (lindane)	55	9	144	27-120	40	R	µg/Kg
		gamma-Chlordane	52	9	141	20-120	40	R	µg/Kg
		Heptachlor	58	10	142	35-120	40	1.9 UJ	µg/Kg
		Heptachlor epoxide	58	10	141	32-120	40	1.7 UJ	µg/Kg
		Methoxychlor	57	8	148	26-120	40	R	µg/Kg
Metals	S-38443-080618-JC-122	Antimony	44	41	6	75 - 125	20	0.63 J	mg/kg
	S-38443-080618-JC-123							0.27 J	mg/kg
	S-38443-080618-JC-124							0.33 J	mg/kg
	S-38443-080618-JC-125							0.37 J	mg/kg
	S-38443-080618-JC-126							0.34 J	mg/kg
	S-38443-080718-JC-127							1.3 J	mg/kg
	S-38443-080718-JC-128							0.90 J	mg/kg
	S-38443-080718-JC-129							0.29 J	mg/kg
	S-38443-080718-JC-130							0.15 J	mg/kg
	S-38443-080718-JC-131							0.33 J	mg/kg
	S-38443-080718-JC-132							0.71 J	mg/kg
	S-38443-080718-JC-134							0.24 J	mg/kg
	S-38443-080718-JC-135							0.39 J	mg/kg
	S-38443-080718-JC-136							0.40 J	mg/kg

Table 6

Qualified Sample Results Due to Outlying MS/MSD Results
Floodplain Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
August 2018

Parameter	Sample ID	Analyte	MS % Recovery	MSD % Recovery	RPD (percent)	Control Limits % Recovery	Control Limits RPD	Qualified Result	Units
Metals	S-38443-080718-JC-137							0.30 J	mg/kg
	S-38443-080718-JC-138							0.22 J	mg/kg
	S-38443-080718-JC-139							0.28 J	mg/kg
	S-38443-080718-JC-141							0.21 J	mg/kg
	S-38443-080718-JC-142							0.24 J	mg/kg
Metals	S-38443-080818-JC-143	Antimony	35	35	1	75 - 125	20	0.26 J	mg/kg
	S-38443-080818-JC-144							0.20 J	mg/kg
	S-38443-080818-JC-145							0.17 J	mg/kg
	S-38443-080818-JC-146							0.14 J	mg/kg
	S-38443-080818-JC-147							0.13 J	mg/kg
	S-38443-080818-JC-148							0.18 J	mg/kg
	S-38443-080818-JC-149							0.17 J	mg/kg

Notes:

MS - Matrix Spike
MSD - Matrix Spike Duplicate
R - Rejected
RPD - Relative Percent Difference
SVOCs - Semi-volatile Organic Compounds
UJ - Not detected; associated reporting limit is estimated
VOCs - Volatile Organic Compounds

Table 7

Qualified Sample Data Due to Analyte Concentrations in the Rinse Blanks
Floodplain Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
August 2018

Parameter	Rinse Blank ID	Blank Date (dd/mm/yyyy)	Analyte	Blank Result	Associated Sample ID	Original Result	Qualified Result	Units
SVOCs	RB-38443-080718-JC-140	8/7/2018	Naphthalene	8.6 J	S-38443-080718-JC-130	3.7 J	8.6 U	µg/Kg
SVOCs	RB-38443-080818-JC-150	8/8/2018	Naphthalene	37	S-38443-080818-JC-149	10	37 U	µg/Kg

Notes:

J - Estimated concentration
SVOCs - Semi-volatile Organic Compounds
U - Not detected at the associated reporting limit

Table 8

Qualified Sample Data Due to Differences in Dual Column Results
Floodplain Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
August 2018

Parameter	Analyte	RPD (percent)	Criteria (percent)	Associated Sample ID	Qualified Result	Units
Pesticides	Endrin aldehyde	106	40	S-38443-080718-JC-131	2.0 NJ	µg/Kg
Pesticides	4,4'-DDE	118	40	S-38443-080718-JC-132	2.4 NJ	µg/Kg
	Heptachlor epoxide	154	40		2.8 NJ	µg/Kg
Pesticides	Toxaphene	41	40	S-38443-080718-JC-141	51 J	µg/Kg
Pesticides	4,4'-DDT	45	40	S-38443-080818-JC-143	17 J	µg/Kg
	gamma-Chlordane	108	40		1.5 NJ	µg/Kg
Herbicides	2,4,5-TP (Silvex)	46	40	S-38443-080718-JC-135	73 J	µg/Kg

Notes:

J - Estimated concentration
NJ - Tentatively Indentified, Estimated concentration
PCBs - Polychlorinated Biphenyls
RPD - Relative Percent Difference

Memorandum

February 21, 2019

To:	Julian Hayward	Ref. No.:	038443-320
From:	Angela Bown/cs/49-NF	Tel:	513-942-4750
cc:	Brent Ramdial, Valerie Chan		

Subject: **Analytical Results and Full Validation**
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

1. Introduction

This document details a validation of analytical results for soil samples collected in support of the Soil Sampling Program at the Moraine, Ohio site during December 2017, January through May 2018. Samples were submitted to TestAmerica Laboratories, Inc. (TA) located in North Canton, Ohio and Knoxville, Tennessee. A sample collection and analysis summary is presented in Table 1. The validated analytical results are summarized in Table 2. A summary of the analytical methodology is presented in Table 3.

Full Contract Laboratory Program (CLP) equivalent raw data deliverables were provided by the laboratory. Evaluation of the data was based on information obtained from the finished data sheets, raw data, chain of custody forms, calibration data, blank data, duplicate data, recovery data from surrogate spikes/laboratory control samples (LCS)/matrix spike (MS) samples and field quality assurance/quality (QA/QC) samples. The assessment of analytical and in-house data included checks for data consistency (by observing comparability of duplicate analyses), adherence to accuracy and precision criteria, and transmittal errors.

The QA/QC criteria by which these data have been assessed are outlined in the analytical methods referenced in Table 3 and applicable guidance from the documents entitled:

i) "Remedial Investigation/Feasibility Study (RI/FS) Work Plan for Operable Units 1 and 2, Appendix E – Quality Assurance Project Plan", September 20, 2017

ii) "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review", USEPA 540-R-10-011, January 2010

iii) "USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review", USEPA 540-R-08-01, June 2008

iv) "National Functional Guidelines for High Resolution Superfund Methods Data Review", United States Environmental Protection Agency (USEPA) 542-B-16-001, April 2016.

Items ii), iii), and iv) will subsequently be referred to as the "Guidelines" in this Memorandum.

2. Sample Holding Time and Preservation

The sample holding time criteria for the analyses are summarized in Table 3. Sample chain of custody documents and analytical reports were used to determine sample holding times. All samples were prepared and analyzed within the required holding times.

All samples were properly preserved, delivered on ice, and stored by the laboratory at the required temperature (0-6°C).

3. Gas Chromatography/Mass Spectrometer (GC/MS) – Tuning and Mass Calibration (Instrument Performance Check) and Inductively Coupled Plasma/Mass Spectrometer (ICP/MS)

3.1 Organic Analyses

Prior to volatile organic compound (VOC) and semi-volatile organic compound (SVOC) analysis, GC/MS instrumentation is tuned to ensure optimization over the mass range of interest. To evaluate instrument tuning, methods require the analysis of specific tuning compounds bromofluorobenzene (BFB) and decafluorotriphenylphosphine (DFTPP), respectively. The resulting spectra must meet the criteria cited in the methods before analysis is initiated. Analysis of the tuning compound must then be repeated every 12 hours throughout sample analysis to ensure the continued optimization of the instrument.

Tuning compounds were analyzed at the required frequency throughout VOC and SVOC analysis periods. All tuning criteria were met indicating that proper optimization of the instrumentation was achieved.

3.2 High Resolution GC/MS Analyses

GC/MS system performance checks are performed to ensure mass resolution, identification, and calibration. The following criteria must be met before sample analysis can begin:

i) For the PFK (perfluorokerosene) molecular leak, the resolution must be greater than or equal to 10,000. The deviation between the exact mass and the theoretical mass for each of the three to five ions monitored must be less than 5 parts per million (ppm).

ii) The Window Defining Mix (WDM) should be analyzed after the PFK, prior to calibration and every 12 hours during sample analysis.

iii) The Isomer Specificity Check standard should be analyzed after the WMD, prior to calibration and every 12 hours during sample analysis.

All GC/MS performance checks were performed and all criteria were met.

3.3 Inorganic Analyses

To ensure adequate mass resolution, identification, and to some degree, sensitivity, the performance of each ICP/MS instrument used for metals analyses is checked prior to calibration and initiating an analysis sequence through the analysis of a tuning solution.

Instrument performance check data were reviewed. The tuning solution was analyzed at the required frequency throughout the analyses. The results of all instrument performance checks were within the method acceptance criteria, indicating that proper optimization of the instrumentation was achieved.

4. Initial Calibration - Organic Analyses

4.1 GC/MS

To quantify VOCs and SVOCs of interest in samples, calibration of the GC/MS over a specific concentration range must be performed. Initially, a five-point calibration curve containing all compounds of interest is analyzed to characterize instrument response for each analyte over a specific concentration range. Linearity of the calibration curve and instrument sensitivity are evaluated against the following criteria:

i) All relative response factors (RRFs) must be greater than or equal to 0.050 (greater than or equal to 0.010 for compounds that exhibit poor response)

ii) The percent relative standard deviation (%RSD) values must not exceed 20.0 percent (40.0 percent for compounds that exhibit poor response) or a minimum correlation coefficient (R) and minimum coefficient of determination (R^2) of 0.995 and 0.99, respectively, if linear and quadratic equation calibration curves are used

The initial calibration data for VOCs and SVOCs were reviewed. All compounds met the above criteria for sensitivity and linearity.

4.2 High Resolution GC/MS

To quantify dioxins/furans of interest, calibration of the GC/MS over a specific concentration range must be performed. Initially, a five-point calibration curve containing all compounds required by the method is analyzed to characterize instrument response for each analyte over a specific concentration range. Linearity and sensitivity of the calibration curve are evaluated against the following criteria:

i) The percent relative standard deviation (%RSD) for the relative response (RR) of congeners calibrated by isotope dilution must not exceed 20.0 percent or a minimum correlation coefficient (R) of 0.99 if linear calibration curves are used

ii) The percent relative standard deviation (%RSD) for the relative response factor (RRF) of congeners calibrated by internal standard must not exceed 35.0 percent or a minimum correlation coefficient (R) of 0.99 if linear calibration curves are used

iii) The signal to noise ratio (S/N) must be ≥ 10 percent for all analytes and the ion abundance ratios must be within the method required window

The initial calibration data were reviewed. All compounds met the above criteria for linearity and sensitivity.

4.3 GC – Internal Standard Calibration – PCBs and Organochlorine Pesticides

To quantify pesticides, the performance evaluation mixture (PEM) is analyzed at the beginning and end of the initial calibration sequence and throughout the analytical sequence. The results of these analyses are used to evaluate dichlorodiphenyltrichloroethane (DDT)/endrin breakdown, using the method degradation criteria of <15 percent. PEM standards were analyzed at the required frequency throughout sample analysis and all method performance criteria were met.

In order to quantify organic compounds of interest by GC, calibration of the gas chromatograph over a specific concentration range must be performed. Polychlorinated biphenyls (PCBs) and organochlorine pesticides were calibrated with a dual column analysis using internal standardization. Five peaks, representing five congeners, were used for the analysis of each Aroclor with a separate curve fitted to the calibration data for each congener. A calibration curve consisting of a minimum of five concentration levels was analyzed for all single component compounds of interest. Linearity of the calibration curves are evaluated against the following criteria:

i) The percent relative standard deviation (%RSD) values must not exceed 20.0 percent

ii) A minimum correlation coefficient (R) and minimum coefficient of determination (R^2) of 0.995 and 0.99, respectively, if linear and quadratic equation calibration curves are used

Retention time windows are also calculated from the initial calibration analyses. These windows are then used to identify all compounds of interest in subsequent analyses.

All initial calibration standards were analyzed at the required frequencies. All retention time, peak resolution, and linearity criteria were satisfied as specified in the method.

5. Initial Calibration – Inorganic Analyses

Initial calibration of the instruments ensures that they are capable of producing satisfactory quantitative data at the beginning of a series of analyses. For ICP and ICP/MS analysis, a calibration blank and at least one standard must be analyzed at each wavelength to establish the analytical curve. For mercury atomic absorption (AA) analyses, a calibration blank and a minimum of five standards must be analyzed to establish the analytical curve, and resulting correlation coefficients (R) must be 0.995 or greater. For instrumental general chemistry analyses, a calibration blank and a minimum of five standards must be analyzed to establish the analytical curve, and resulting correlation coefficients (R) must be 0.995 or greater.

After the analyses of the calibration curves, an initial calibration verification (ICV) standard must be analyzed to verify the analytical accuracy of the calibration curves. All analyte recoveries from the analyses of the ICVs must be within the following control limits:

Analytical Method	Parameter	Control Limits
ICP and ICP/MS	Metals	90 - 110%
Cold Vapor AA	Mercury	80 - 120%
Instrumental General Chemistry	Cyanide, Cr+6, and Cr+3	85 - 115% or laboratory established limits

Upon review of the data, it was determined that the calibration curves and ICVs were analyzed at the proper frequencies and that all of the above-specified criteria were met. The laboratory effectively demonstrated that the instrumentation used for metals and general chemistry analyses were properly calibrated prior to sample analysis.

6. Continuing Calibration - Organic Analyses

6.1 GC/MS

To ensure that instrument calibration for VOC and SVOC analyses is acceptable throughout the sample analysis period, continuing calibration standards must be analyzed and compared to the initial calibration curve every 12 hours.

The following criteria were employed to evaluate continuing calibration data:

i) All RRF values must be greater than or equal to 0.050 (greater than or equal to 0.010 for compounds that exhibit poor response)

ii) Percent difference (%D) values must not exceed 25.0 percent (40.0 percent for compounds that exhibit poor response)

Calibration standards were analyzed at the required frequency, and the results met the above criteria for instrument sensitivity and stability with the exception of the sample results presented with qualifiers in Table 4.

6.2 High Resolution GC/MS

To ensure that instrument calibration is acceptable throughout the sample analysis period, continuing calibration standards must be analyzed and compared to the initial calibration curve every 12 hours.

The following criteria were employed to evaluate continuing calibration data:

i) The percent difference (%D) for the relative response (RR) of congeners calibrated by isotope dilution must not exceed 25.0 percent

ii) The percent difference (%D) for the relative response factor (RRF) of congeners calibrated by internal standard must be within the method required windows

iii) The signal to noise ratio (S/N) must be ≥ 10 percent for all analytes and the ion abundance ratios must be within the method required window

Calibration standards were analyzed at the required frequency, and the results met the above criteria for instrument sensitivity and stability.

6.3 GC

To ensure that the calibration of the instrument for organic analyses by GC is valid throughout the sample analysis period, continuing calibration standards are analyzed and evaluated on a regular basis. To evaluate the continued linearity of the calibration, %D values are calculated for each compound. As specified in the methods, all %D values should not exceed 15 percent. To ensure that compound retention times do not vary over the analysis period, all retention times for continuing calibration compounds must fall within the established retention time windows.

All continuing calibration standards were analyzed at the required frequency. All %D values and compound retention times met the above criteria indicating acceptable instrument calibration throughout the analysis period with the exception of the results presented with qualifiers in Table 4.

7. Continuing Calibration - Inorganic Analyses

To ensure that instrument calibration is acceptable throughout the sample analysis period, continuing calibration verification (CCV) standards are analyzed on a regular basis. Each CCV is deemed acceptable if all analyte recoveries are within the control limits specified above for the ICVs. If some of the CCV analyte recoveries are outside the control limits, samples analyzed before and after the CCV, up until the previous and proceeding CCV analyses, are affected.

For this study, CCVs were analyzed at the proper frequency. All analyte recoveries reported for the CCVs were within the specified limits.

8. Laboratory Blank Analyses

Method blanks are prepared from a purified matrix and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the analytical procedures. Additionally, initial and continuing calibration blanks (ICBs/CCBs) are routinely analyzed after each ICV/CCV for the inorganic parameters.

For this study, laboratory method blanks were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

8.1 Organic Analyses

Most method blank results were non-detect. Table 5 presents the sample results that were qualified as non-detect due to analyte concentrations in the method blanks.

8.2 Inorganic Analyses

Upon review of the ICBs, CCBs, and method blanks, it was noted that metal concentrations were observed above the method detection limit (MDL). Most investigative samples associated with the low-level detections reported either non-detect concentrations or concentrations significantly greater than the associated laboratory blank concentrations for the analytes of interest. These sample results were not impacted by the

contamination detected. Associated positive sample results with similar concentrations to the levels reported in the blanks were qualified as non-detect (see Table 5 and Table 6).

9. Surrogate Spike Recoveries

In accordance with the methods employed, all samples, blanks, and QC samples analyzed for organics are spiked with surrogate compounds prior to sample extraction and/or analysis. Surrogate recoveries provide a means to evaluate the effects of laboratory performance on individual sample matrices.

All samples submitted for organic determinations were spiked with the appropriate number of surrogate compounds prior to sample extraction and/or analysis.

Each individual surrogate compound is expected to meet the laboratory control limits with the exception of SVOC analyses. According to the "Guidelines" for SVOC analyses, up to one outlying surrogate in the base/neutral or acid fractions is acceptable as long as the recovery is at least 10 percent.

Surrogate recoveries were assessed against laboratory control limits. Due to dilutions equal to or greater than 5 times that were necessary to successfully analyze the samples, numerous surrogate recoveries in investigative samples analyzed for pesticides, PCBs, and SVOCs were not assessed. Most remaining surrogate recoveries were within the laboratory criteria.

Where surrogate recoveries were above the control limits, non-detect sample results were not impacted by the implied high bias and were not qualified. The associated detected sample results were qualified as estimated.

Where surrogate recoveries were excessively low (<10%), the associated non-detect results were rejected and the detected results were qualified as estimated due to the implied low bias.

Table 7 presents the sample results that were qualified or rejected due to outlying surrogate recoveries.

10. Spiked C-13 Labeled PCDD/PCDF

In accordance with the method employed, all samples, blanks, and QC samples analyzed for PCDD/PCDF are spiked with labeled congeners prior to extraction to be an internal standard for the quantitation of native congeners, and to serve as surrogates for the assessment of method performance in the sample matrix.

All samples submitted for PCDD/PCDF determinations were spiked with the appropriate number of labeled compounds prior to sample extraction analysis.

Labeled congener recoveries were assessed against method control limits (40-135 percent). Low recoveries were observed for various congeners. All associated results were qualified as estimated in Table 8. All remaining recoveries met the method criteria.

11. Internal Standards (IS) Analyses

IS data were evaluated for all VOC, SVOC, PCB, Pesticide, and ICP/MS metals sample analyses.

11.1 Organics Analyses

To ensure that changes in the GC/MS and GC sensitivity and response do not affect sample analysis results IS compounds are added to each sample prior to analysis. All results are then calculated as a ratio of the IS responses.

The sample IS results were evaluated against the following criteria:

i) The retention time of the IS must not vary more than ±30 seconds from the associated calibration standard

ii) IS area counts must not vary by more than a factor of two (-50 percent to +100 percent) from the associated calibration standard

Most organic IS recoveries and retention times met the above criteria. Table 8 presents the sample results that were qualified or rejected due to outlying IS recoveries.

11.2 Inorganic Analyses

IS elements were added to all samples prior to metals analysis by ICP/MS. Overall instrument stability and performance for metals analyses were monitored using the IS intensity data. IS recoveries were assessed using control limits of 60-125 percent.

All inorganic IS recoveries were within the acceptance limits.

12. Cleanup Standard Recoveries-High Resolution GC/MS-PCDD/PCDF

Two C-13 labeled cleanup standards are added to all samples, blanks, and blank spike samples subsequent to extraction, but prior to the cleanup procedures to assess the efficiency of the cleanup procedures.

Cleanup standards were added to all samples and blanks prior to cleanup. All recoveries were within the method acceptable ranges.

13. Laboratory Control Sample Analyses

LCS or LCS/laboratory control sample duplicates (LCSD) are prepared and analyzed as samples to assess the analytical efficiencies of the methods employed, independent of sample matrix effects. The relative percent difference (RPD) of the LCS/LCSD recoveries is used to evaluate analytical precision.

For this study, LCS or LCS/LCSD were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

13.1 Organic Analyses

The LCS or LCS/LCSD contained all compounds of interest or the compounds specified in the method. Most LCS recoveries and RPDs were within the laboratory control limits demonstrating acceptable analytical accuracy and precision. Table 9 presents the sample results that were qualified due to outlying LCS recoveries.

13.2 Inorganic Analyses

The LCS or LCS/LCSD contained all analytes of interest. LCS recoveries were assessed per the "Guidelines". All LCS recoveries and RPDs were within the control limits demonstrating acceptable analytical accuracy and precision with the exception of mercury results presented with qualifiers in Table 9.

14. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analyses

To evaluate the effects of sample matrices on the preparation process, measurement procedures, and accuracy of a particular analysis, samples are spiked with a known concentration of the analyte of concern and analyzed as MS/MSD samples. The RPD between the MS and MSD is used to assess analytical precision.

If the original sample concentration is significantly greater than the spike concentration (greater than 4 times), the recovery is not assessed.

If only the MS or MSD recovery was outside of control limits, no qualification of the data was performed based on the acceptable recovery of the companion spike and the acceptable RPD.

Due to dilutions of five times and greater that were necessary to successfully analyze the samples, some MS/MSD recoveries were not assessed.

Non-detect sample results were not impacted by high MS/MSD recoveries and/or RPDs. Non-detect sample results that were associated with excessively low MS/MSD recoveries (<10 percent for organics) were rejected in Table 10.

MS/MSD analyses were performed as specified in Table 1.

14.1 Organic Analyses

The MS/MSD samples were spiked with all compounds of interest or the compounds specified in the method. All percent recoveries and RPD values were within the laboratory control limits demonstrating acceptable analytical accuracy and precision with the exception of the sample results presented with qualifiers in Table 10.

14.2 Inorganic Analyses

The MS or MS/MSD samples were spiked with the analytes of interest, and the results were evaluated using the "Guidelines". All percent recoveries and RPD values, if applicable, were within the control limits

demonstrating acceptable analytical accuracy and precision with the exception of the sample results presented with qualifiers in Table 10.

15. Duplicate Sample Analyses – Inorganic Analyses

Analytical precision is evaluated based on the analysis of laboratory duplicate samples. For this study, duplicate samples were prepared and analyzed by the laboratory. The duplicate results were evaluated per the "Guidelines".

All duplicate analyses performed were acceptable, demonstrating acceptable analytical precision.

16. ICP/MS Serial Dilution

The serial dilution determines whether significant physical or chemical interferences exist due to sample matrix. A minimum of 1 per 20 investigative samples or at least 1 per analytical batch must be analyzed at a five-fold dilution. For samples with sufficient analyte concentrations (>50 times the method detection limit), the serial dilution results must agree within 10 percent of the original results.

A serial dilution was performed on each MS/MSD sample. All results met the criteria above with the exception of the sample results presented with qualifiers in Table 11.

17. ICP Interference Check Sample Analysis (ICS)

To verify that the laboratory has established proper inter-element and background correction factors, ICSs are analyzed. These samples contain high concentrations of aluminum, calcium, magnesium, and iron and are analyzed at the beginning and end of each sample analysis period. The ICSs are evaluated against recovery control limits in the "Guidelines" of 80 to 120 percent.

ICS analysis results were evaluated for all samples using the criteria in the "Guidelines". All ICS recoveries and results were acceptable.

18. Field QA/QC Samples

The field QA/QC consisted of five trip blank samples, five equipment blank samples, and nine field duplicate sample sets.

18.1 Trip Blank Sample Analysis

To evaluate contamination from sample collection, transportation, storage, and analytical activities, five trip blank samples were submitted to the laboratory for VOC analysis. All results were either non-detect for the compounds of interest or were at a level did not impact the associated sample results.

18.2 Equipment Blank Sample Analysis

To assess field decontamination procedures, ambient conditions at the site, and cleanliness of sample containers, five equipment blank sample was submitted for analysis, as identified in Table 1. All results were non-detect for the analytes of interest or were at a level that did not impact the associated sample results.

18.3 Field Duplicate Sample Analysis

To assess the analytical and sampling protocol precision, nine field duplicate sample sets were collected and submitted "blind" to the laboratory, as specified in Table 1. The RPDs associated with these duplicate samples must be less than 100 percent for soil samples. If the reported concentration in either the investigative sample or its duplicate is less than five times the reporting limit (RL), the evaluation criterion is two times the RL value for water samples.

Most field duplicate results were within acceptable agreement demonstrating acceptable sampling and analytical precision. Table 12 presents the sample results that were qualified due to variability in the field duplicate results.

19. Analyte Reporting

The laboratory reported detected results down to the laboratory's method detection limit (MDL) for each analyte adjusted for specific sample dilutions, weights, and volumes. Positive analyte detections less than the RL but greater than the sample-specific MDL were qualified as estimated (J) in Table 2 unless qualified otherwise in this memorandum. Non-detect results were presented as non-detect at the sample specific MDL in Table 2.

All soil results were reported on a dry weight basis. All results for sample S-38443-053118-JC-119 were qualified as estimated due to low percent solids as the amount of moisture present can introduce analytical variability. See Table 13 for the qualified sample results.

20. Target Compound Identification

To minimize erroneous compound identification during organic analyses, qualitative criteria including compound retention time and mass spectra (if applicable) were evaluated according to the identification criteria established by the methods. The samples identified in Table 1 were reviewed. The organic compounds reported adhered to the specified identification criteria.

Pesticide and PCB analyses were performed using dual column analyses. In general, the results showed good correlation between the two columns (<40 RPD). Variability was observed between some of the results. The associated data were qualified in Table 14 as estimated (J) or presumptively identified and estimated (NJ) where RPD > 80 to reflect the indicated variability.

Table 15 presents the qualified samples results for dioxin/furans due to outlying identification criteria.

Matrix interferences were present for some dioxin/furan sample results that affected identification and/or accurate determination of detection limits. The qualified results are as shown in Table 16.

21. Conclusion

Based on the assessment detailed in the foregoing, the data summarized in Table 2 are acceptable with the specific exceptions and qualifications noted herein.

Table 1

Sample Collection and Analysis Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

Sample Identification	Location	Start Depth (ft bgs)	End Depth (ft bgs)	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters: VOCs	SVOCs	Pesticides	PCBs	Dioxins & Furans	Select Metals	Fractionated Lead	Mercury	Hexavalent & Trivalent Cr	Cyanide	Comments
S-38443-120617-JC-001	BH158-17	3	5	Soil	12/06/2017	14:35						X			X		
S-38443-120717-JC-002	BH103-17	3	5	Soil	12/07/2017	09:05	X	X	X	X		X		X	X	X	
S-38443-120717-JC-003	BH104-17	3	5	Soil	12/07/2017	10:30	X	X	X	X		X		X	X	X	
S-38443-120717-JC-004	BH102-17	4.5	6.5	Soil	12/07/2017	10:40	X	X	X	X		X		X	X	X	MS/MSD
S-38443-120817-JC-005	BH97-17	13	15	Soil	12/08/2017	11:25	X	X	X	X	X	X		X	X	X	
S-38443-120817-JC-006	BH97-17	13	15	Soil	12/08/2017	11:35	X	X	X	X	X	X		X	X	X	FD(S-38443-120817-JC-005); MS/MSD
S-38443-120817-JC-007	BH172-17	12	14	Soil	12/08/2017	13:40						X			X		
S-38443-121817-JC-008	BH175-17	13	15	Soil	12/18/2017	11:30						X			X		
S-38443-121817-JC-009	BH175-17	15.5	17.5	Soil	12/18/2017	11:45	X	X	X	X		X		X	X	X	
S-38443-121817-JC-010	BH159-17	13	15	Soil	12/18/2017	14:25						X			X		
S-38443-121817-JC-011	BH159-17	19	21	Soil	12/18/2017	15:20	X	X	X	X		X		X	X	X	MS/MSD
S-38443-121917-JC-012	BH166-17	1	3	Soil	12/19/2017	09:00						X			X		
S-38443-121917-JC-013	BH166-17	18	20	Soil	12/19/2017	09:35	X	X	X	X		X		X	X	X	
S-38443-121917-JC-014	BH112-17	13	15	Soil	12/19/2017	11:52	X	X	X	X	X	X		X	X	X	
S-38443-121917-JC-015	BH95-17	5	7	Soil	12/19/2017	15:10	X	X	X	X	X	X		X	X	X	
S-38443-122017-JC-016	BH94-17	13	14.8	Soil	12/20/2017	10:07	X	X	X	X	X	X		X	X	X	
S-38443-122017-JC-017	BH164-17	13	15	Soil	12/20/2017	13:40						X			X		
S-38443-122017-JC-018	BH164-17	18	20	Soil	12/20/2017	14:15	X	X	X	X		X		X	X	X	MS/MSD
S-38443-122017-JC-019	BH165-17	13	15	Soil	12/20/2017	14:50						X			X		
S-38443-122017-JC-020	BH165-17	21.5	23.5	Soil	12/20/2017	15:45	X	X	X	X		X		X	X	X	
EB-38443-122017-JC-002	-	-	-	Water	12/20/2017	17:05	X	X	X	X		X		X	X	X	Equipment Blank
TRIP BLANK-38443-122017-JC-002	-	-	-	Water	12/20/2017	-	X										Trip Blank
S-38443-122117-JC-021	BH173-17	5	7	Soil	12/21/2017	09:00						X			X		
S-38443-122117-JC-022	BH173-17	17.5	19.5	Soil	12/21/2017	09:15	X	X	X	X		X		X	X	X	
S-38443-122117-JC-023	BH173-17	17.5	19.5	Soil	12/21/2017	09:25	X	X	X	X		X		X	X	X	FD(S-38443-122117-JC-022)
S-38443-122117-JC-024	BH168-17	12.5	14.5	Soil	12/21/2017	10:10						X			X		
S-38443-010318-JC-025	BH96-18	13	15	Soil	01/03/2018	13:30	X	X	X	X	X	X		X	X	X	
S-38443-010318-JC-026	BH113-18	9	11	Soil	01/03/2018	15:05	X	X	X	X		X		X	X	X	MS/MSD

Table 1

Sample Collection and Analysis Summary
Soil Sampling
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Moraine, Ohio
December 2017, January through May 2018

Sample Identification	Location	Start Depth (ft bgs)	End Depth (ft bgs)	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters										Comments
							VOCs	SVOCs	Pesticides	PCBs	Dioxins & Furans	Select Metals	Fractionated Lead	Mercury	Hexavalent & Trivalent Cr	Cyanide	
S-38443-010418-JC-027	BH142-18	8	10	Soil	01/04/2018	12:00	X	X	X	X	X	X		X	X	X	
S-38443-010418-JC-028	BH139-18	13	15	Soil	01/04/2018	15:10	X	X	X	X	X	X		X	X	X	MS/MSD
S-38443-010818-JC-029	BH140-18	13	15	Soil	01/08/2018	10:30	X	X	X	X	X	X		X	X	X	
S-38443-010818-JC-030	BH137-18	13	15	Soil	01/08/2018	12:00	X	X	X	X	X	X		X	X	X	
S-38443-010818-JC-031	BH137-18	26	28	Soil	01/08/2018	12:50	X	X	X	X	X	X		X	X	X	
S-38443-010818-JC-032	BH136-18	1	3	Soil	01/08/2018	15:00	X	X	X	X	X	X		X	X	X	
S-38443-010818-JC-033	BH136-18	1	3	Soil	01/08/2018	15:05	X	X	X	X	X	X		X	X	X	FD(S-38443-010818-JC-032); MS/MSD
S-38443-010818-JC-034	BH136-18	15	17	Soil	01/08/2018	15:15	X	X	X	X	X	X		X	X	X	MS/MSD
S-38443-010918-JC-035	BH138-18	8	10	Soil	01/09/2018	09:00	X	X	X	X	X	X		X	X	X	MS/MSD
S-38443-010918-JC-036	BH141-18	6	8	Soil	01/09/2018	10:20	X	X	X	X	X	X		X	X	X	
EB-38443-010918-JC-003	-	-	-	Water	01/09/2018	-	X	X	X	X		X		X	X	X	Equipment Blank
TRIPBLANK-010918-JC-003	-	-	-	Water	01/09/2018	-	X										Trip Blank
S-38443-011118-JC-038	BH116-18	11	13	Soil	01/11/2018	09:30	X	X	X	X		X		X	X	X	
S-38443-011118-JC-039	BH115-18	3	5	Soil	01/11/2018	10:30	X	X	X	X		X		X	X	X	MS/MSD
S-38443-011118-JC-040	BH114-18	3	5	Soil	01/11/2018	11:00	X	X	X	X		X		X	X	X	
S-38443-011118-JC-041	BH114-18	3	5	Soil	01/11/2018	11:15	X	X	X	X		X		X	X	X	FD(S-38443-011118-JC-040)
S-38443-011118-JC-042	BH111-18	7.5	9.5	Soil	01/11/2018	14:20	X	X	X	X		X		X	X	X	
S-38443-011218-JC-043	BH108-18	7	9	Soil	01/12/2018	09:00	X	X	X	X		X		X	X	X	MS/MSD
EB-38443-011218-JC-004	-	-	-	Water	01/12/2018	10:00	X	X	X	X		X		X	X	X	Equipment Blank
TRIPBLANK-011218-JC-004	-	-	-	Water	01/12/2018	-	X										Trip Blank
S-38443-011618-JC-044	BH109-18	7.5	9.5	Soil	01/16/2018	09:35	X	X	X	X		X		X	X	X	
S-38443-011618-JC-045	BH110-18	6.3	8.3	Soil	01/16/2018	10:35	X	X	X	X		X		X	X	X	
S-38443-011618-JC-046	BH107-18	12	14	Soil	01/16/2018	12:00	X	X	X	X		X		X	X	X	MS/MSD
S-38443-011718-JC-047	BH105-18	8.5	10.5	Soil	01/17/2018	10:25	X	X	X	X	X	X		X	X	X	
S-38443-011718-JC-048	BH106-18	13	15	Soil	01/17/2018	11:50	X	X	X	X		X		X	X	X	
S-38443-011818-JC-050	BH117-18	10	12	Soil	01/18/2018	10:20	X	X	X	X		X		X	X	X	
S-38443-011818-JC-051	BH118-18	3	5	Soil	01/18/2018	11:05	X	X	X	X		X		X	X	X	
S-38443-011818-JC-052	BH118-18	3	5	Soil	01/18/2018	11:10	X	X	X	X		X		X	X	X	FD(S-38443-011818-JC-051); MS/MSD
S-38443-011818-JC-053	BH119-18	9	11	Soil	01/18/2018	14:45	X	X	X	X		X		X	X	X	
EB-38443-011918-JC-005	-	-	-	Water	01/19/2018	08:30	X	X	X	X		X		X	X	X	Equipment Blank
TRIP BLANK-011918-JC-005	-	-	-	Water	01/19/2018	-	X										Trip Blank
S-38443-011918-JC-054	BH121-18	8	10	Soil	01/19/2018	10:10	X	X	X	X		X		X	X	X	
S-38443-011918-JC-055	BH120-18	8	10	Soil	01/19/2018	11:30	X	X	X	X		X		X	X	X	MS/MSD
S-38443-012218-JC-057	BH144-18	14.5	16.5	Soil	01/22/2018	09:43	X	X	X	X	X	X		X	X	X	

Table 1

Sample Collection and Analysis Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

Sample Identification	Location	Start Depth (ft bgs)	End Depth (ft bgs)	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters										Comments
							VOCs	SVOCs	Pesticides	PCBs	Dioxins & Furans	Select Metals	Fractionated Lead	Mercury	Hexavalent & Trivalent Cr	Cyanide	
S-38443-012218-JC-059	BH145-18	9	11	Soil	01/22/2018	11:48	X	X	X	X	X	X		X	X	X	MS/MSD
S-38443-012318-JC-061	BH143-18	10	12	Soil	01/23/2018	09:10	X	X	X	X	X	X		X	X	X	
S-38443-012318-JC-062	BH143-18	10	12	Soil	01/23/2018	09:20	X	X	X	X	X	X		X	X	X	FD(S-38443-012318-JC-061); MS/MSD
EB-38443-012318-JC-006	-	-	-	Water	01/23/2018	14:00	X	X	X	X		X		X	X	X	Equipment Blank
TRIPBLANK-012318-JC-006	-	-	-	Water	01/23/2018	-	X										Trip Blank
SO-38443-032018-BW-001	TT-24	2	4	Soil	03/20/2018	15:15	X	X	X	X	X	X		X		X	
SO-38443-032018-BW-002	TT-24	13	15	Soil	03/20/2018	15:30	X	X	X	X	X	X		X		X	MS/MSD
S-38443-050818-JC-070	BH163-18	17	19	Soil	05/08/2018	11:10	X	X	X	X		X		X	X	X	MS/MSD
S-38443-050818-JC-071	BH162-18	16	18	Soil	05/08/2018	13:00	X	X	X	X		X		X	X	X	MS/MSD
S-38443-051618-JC-072	BH176-18	18	20	Soil	05/16/2018	08:50	X	X	X	X		X		X	X	X	
S-38443-051618-JC-073	SS-151	0	2	Soil	05/16/2018	13:50	X	X	X	X		X		X	X	X	MS/MSD
S-38443-051618-JC-074	BH156-18	13	15	Soil	05/16/2018	14:10	X	X	X	X		X		X	X	X	
S-38443-051718-JC-075	SS-153	0	2	Soil	05/17/2018	09:05	X	X	X	X		X		X	X	X	
S-38443-051718-JC-083	BH157-18	12	14	Soil	05/17/2018	14:40	X	X	X	X		X		X	X	X	
S-38443-051718-JC-076	SS-139	0	2	Soil	05/17/2018	10:20	X	X	X	X		X		X	X	X	
S-38443-051718-JC-077	BH147-18	12	14	Soil	05/17/2018	10:50	X	X	X	X		X		X	X	X	
S-38443-051718-JC-078	SS-140	0	2	Soil	05/17/2018	11:55	X	X	X	X		X		X	X	X	
S-38443-051718-JC-079	BH148-18	6	8	Soil	05/17/2018	12:15	X	X	X	X		X		X	X	X	MS/MSD
S-38443-051718-JC-080	SS-138	0	2	Soil	05/17/2018	13:05	X	X	X	X		X		X	X	X	
S-38443-051718-JC-081	SS-138	0	2	Soil	05/17/2018	13:10	X	X	X	X		X		X	X	X	FD(S-38443-051718-JC-080)
S-38443-051718-JC-082	BH146-18	13	15	Soil	05/17/2018	13:35	X	X	X	X		X		X	X	X	
S-38443-052918-JC-085	SS-142	0	2	Soil	05/29/2018	08:40	X	X	X	X		X	X	X	X	X	MS/MSD
S-38443-052918-JC-086	BH150-18	13	15	Soil	05/29/2018	08:55	X	X	X	X		X		X	X	X	
S-38443-052918-JC-087	SS-144	0	2	Soil	05/29/2018	09:30	X	X	X	X		X		X	X	X	
S-38443-052918-JC-088	BH149-18	10	12	Soil	05/29/2018	10:00	X	X	X	X		X		X	X	X	
S-38443-052918-JC-089	SS-145	0	2	Soil	05/29/2018	10:25	X	X	X	X		X		X	X	X	
S-38443-052918-JC-090	BH151-18	10	12	Soil	05/29/2018	10:55	X	X	X	X		X		X	X	X	
S-38443-052918-JC-091	SS-147	0	2	Soil	05/29/2018	11:20	X	X	X	X		X		X	X	X	
S-38443-052918-JC-092	BH153-18	13	15	Soil	05/29/2018	11:40	X	X	X	X		X		X	X	X	
S-38443-052918-JC-093	SS-150	0	2	Soil	05/29/2018	13:00	X	X	X	X		X		X	X	X	
S-38443-052918-JC-094	BH154-18	13	15	Soil	05/29/2018	13:15	X	X	X	X		X		X	X	X	
S-38443-052918-JC-095	SS-149	0	2	Soil	05/29/2018	13:25	X	X	X	X		X		X	X	X	MS/MSD
S-38443-052918-JC-096	BH155-18	13	15	Soil	05/29/2018	13:30	X	X	X	X		X		X	X	X	
S-38443-052918-JC-097	BH155-18	13	15	Soil	05/29/2018	13:40	X	X	X	X		X		X	X	X	FD(S-38443-052918-JC-096)

Table 1

Sample Collection and Analysis Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

Sample Identification	Location	Start Depth (ft bgs)	End Depth (ft bgs)	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters: VOCs	SVOCs	Pesticides	PCBs	Dioxins & Furans	Select Metals	Fractionated Lead	Mercury	Hexavalent & Trivalent Cr	Cyanide	Comments
S-38443-052918-JC-098	SS-146	0	2	Soil	05/29/2018	14:10	X	X	X	X		X	X	X	X	X	
S-38443-052918-JC-099	BH152-18	9	11	Soil	05/29/2018	14:25	X	X	X	X		X		X	X	X	
S-38443-053018-JC-100	SS-104	0	2	Soil	05/30/2018	08:15	X	X	X	X		X		X	X	X	
S-38443-053018-JC-101	BH126-18	10	12	Soil	05/30/2018	08:30	X	X	X	X		X		X	X	X	
S-38443-053018-JC-102	SS-103	0	2	Soil	05/30/2018	09:00	X	X	X	X		X	X	X	X	X	
S-38443-053018-JC-103	BH129-18	13	15	Soil	05/30/2018	09:25	X	X	X	X		X		X	X	X	
S-38443-053018-JC-104	SS-102	0	2	Soil	05/30/2018	09:45	X	X	X	X		X		X	X	X	
S-38443-053018-JC-105	SS-102	0	2	Soil	05/30/2018	09:55	X	X	X	X		X		X	X	X	FD(S-38443-053018-JC-104)
S-38443-053018-JC-106	BH125-18	7	9	Soil	05/30/2018	10:25	X	X	X	X		X		X	X	X	
S-38443-053018-JC-107	SS-112	0	2	Soil	05/30/2018	10:45	X	X	X	X		X		X	X	X	
S-38443-053018-JC-108	BH128-18	13	15	Soil	05/30/2018	11:10	X	X	X	X		X		X	X	X	
S-38443-053018-JC-109	SS-109	0	2	Soil	05/30/2018	13:20	X	X	X	X		X		X	X	X	
S-38443-053018-JC-110	BH127-18	7	9	Soil	05/30/2018	13:30	X	X	X	X		X		X	X	X	
S-38443-053018-JC-111	SS-116	0	2	Soil	05/30/2018	14:00	X	X	X	X		X		X	X	X	
S-38443-053018-JC-112	BH130-18	9.5	11.5	Soil	05/30/2018	14:10	X	X	X	X		X		X	X	X	MS/MSD
S-38443-053118-JC-114	SS-98	0	2	Soil	05/31/2018	08:15	X	X	X	X		X		X	X	X	
S-38443-053118-JC-115	BH122-18	6	8	Soil	05/31/2018	08:30	X	X	X	X		X		X	X	X	
S-38443-053118-JC-116	SS-123	0	2	Soil	05/31/2018	08:45	X	X	X	X		X	X	X	X	X	
S-38443-053118-JC-117	BH133-18	7	9	Soil	05/31/2018	08:55	X	X	X	X		X		X	X	X	
S-38443-053118-JC-118	SS-120	0	2	Soil	05/31/2018	09:20	X	X	X	X		X		X	X	X	
S-38443-053118-JC-119	BH132-18	6.5	8.5	Soil	05/31/2018	09:35	X	X	X	X		X		X	X	X	MS/MSD

Notes:

- - Not applicable
FD - Field Duplicate sample of sample in parentheses
ft bgs - Feet below ground surface
MS/MSD - Matrix Spike/Matrix Spike Duplicate
PCBs - Polychlorinated Biphenyls
SVOCs - Semi-volatile Organic Compounds
VOCs - Volatile Organic Compounds

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH94-17**	**BH95-17**	**BH96-18**	**BH97-17**
	Sample Name:	**S-38443-122017-JC-016**	**S-38443-121917-JC-015**	**S-38443-010318-JC-025**	**S-38443-120817-JC-005**
	Sample Date:	**12/20/2017**	**12/19/2017**	**01/03/2018**	**12/08/2017**
	Depth:	**13-14.8 ft BGS**	**5-7 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**
Parameters	**Unit**				
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/kg	0.24 U	39 U	0.21 U	0.24 U
1,1,2,2-Tetrachloroethane	µg/kg	0.27 U	34 U	0.23 U	0.27 U
1,1,2-Trichloroethane	µg/kg	0.41 U	32 U	0.35 U	0.41 U
1,1-Dichloroethane	µg/kg	0.34 U	67 J	0.30 U	0.34 U
1,1-Dichloroethene	µg/kg	0.56 U	50 U	0.48 U	0.56 U
1,2,4-Trichlorobenzene	µg/kg	0.25 U	36 U	0.21 U	0.25 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	0.71 U	67 U	0.61 U	0.71 U
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	0.36 U	32 U	0.31 U	0.36 U
1,2-Dichlorobenzene	µg/kg	0.23 U	25 U	0.20 U	0.23 U
1,2-Dichloroethane	µg/kg	0.30 U	42 U	0.26 U	0.30 U
1,2-Dichloropropane	µg/kg	0.32 U	42 U	0.28 U	0.32 U
1,3-Dichlorobenzene	µg/kg	0.30 U	53 U	0.26 U	0.30 U
1,4-Dichlorobenzene	µg/kg	0.36 U	38 U	0.31 U	0.36 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	11 U	76 J	3.5 J	3.5 J
2-Hexanone	µg/kg	0.60 U	120 U	0.52 U	0.60 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	0.93 U	240 J	0.80 U	0.93 U
Acetone	µg/kg	58 U	360 U	15 U	17 J
Benzene	µg/kg	0.33 U	43 J	0.71 J	0.33 U
Bromodichloromethane	µg/kg	0.34 U	25 U	0.30 U	0.34 U
Bromoform	µg/kg	0.42 U	32 U	0.36 U	0.42 U
Bromomethane (Methyl bromide)	µg/kg	0.62 U	39 U	0.53 U	0.61 U
Carbon disulfide	µg/kg	2.0 J	25 U	2.9 J	0.22 U
Carbon tetrachloride	µg/kg	0.26 U	38 U	0.22 U	0.26 U
Chlorobenzene	µg/kg	0.34 U	2200	0.30 U	0.34 U
Chloroethane	µg/kg	0.40 U	39 U	0.34 U	0.40 U
Chloroform (Trichloromethane)	µg/kg	0.24 U	34 U	0.21 U	0.24 U
Chloromethane (Methyl chloride)	µg/kg	0.40 U	25 U	0.34 U	0.40 U
cis-1,2-Dichloroethene	µg/kg	0.29 U	91 J	0.25 U	0.29 U
cis-1,3-Dichloropropene	µg/kg	0.27 U	32 U	0.23 U	0.27 U
Cyclohexane	µg/kg	0.22 U	42 U	2.6 J	0.22 U
Dibromochloromethane	µg/kg	0.31 U	47 U	0.27 U	0.31 U
Dichlorodifluoromethane (CFC-12)	µg/kg	0.36 U	31 U	0.31 U	0.36 U
Ethylbenzene	µg/kg	0.28 U	51 J	1.9 J	0.28 U
Isopropyl benzene	µg/kg	0.21 U	110 J	0.89 J	0.21 U
Methyl acetate	µg/kg	1.2 U	2400	1.0 U	1.2 U
Methyl cyclohexane	µg/kg	0.24 U	240 J	2.0 J	0.24 U
Methyl tert butyl ether (MTBE)	µg/kg	0.28 U	36 U	0.24 U	0.28 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH94-17**	**BH95-17**	**BH96-18**	**BH97-17**
	Sample Name:	**S-38443-122017-JC-016**	**S-38443-121917-JC-015**	**S-38443-010318-JC-025**	**S-38443-120817-JC-005**
	Sample Date:	**12/20/2017**	**12/19/2017**	**01/03/2018**	**12/08/2017**
	Depth:	**13-14.8 ft BGS**	**5-7 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**
Parameters	**Unit**				
Volatile Organic Compounds					
Methylene chloride	µg/kg	0.25 U	515 U	0.58 U	0.49 U
Styrene	µg/kg	0.28 U	14 U	0.24 U	0.28 U
Tetrachloroethene	µg/kg	0.39 U	71 J	0.33 U	0.39 U
Toluene	µg/kg	0.35 U	120 J	1.8 J	0.35 U
trans-1,2-Dichloroethene	µg/kg	0.40 U	49 U	0.34 U	0.40 U
trans-1,3-Dichloropropene	µg/kg	0.22 U	21 U	0.19 U	0.22 U
Trichloroethene	µg/kg	0.43 U	52 U	0.37 U	0.43 U
Trichlorofluoromethane (CFC-11)	µg/kg	0.25 U	47 U	0.21 U	0.25 U
Trifluorotrichloroethane (CFC-113)	µg/kg	0.51 U	32 U	0.44 U	0.51 U
Vinyl chloride	µg/kg	0.29 U	24 U	0.25 U	0.29 U
Xylenes (total)	µg/kg	0.42 U	190 J	15	0.42 U
Semivolatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	11 U	110 U	53 U	11 U
2,4,5-Trichlorophenol	µg/kg	30 U	290 U	140 U	29 U
2,4,6-Trichlorophenol	µg/kg	11 U	100 U	50 U	10 U
2,4-Dichlorophenol	µg/kg	24 U	230 U	110 U	23 U
2,4-Dimethylphenol	µg/kg	24 U	230 U	110 U	23 U
2,4-Dinitrophenol	µg/kg	25 U	250 U	120 U	24 U
2,4-Dinitrotoluene	µg/kg	20 U	200 U	95 U	20 U
2,6-Dinitrotoluene	µg/kg	25 U	250 U	120 U	24 U
2-Chloronaphthalene	µg/kg	0.54 U	5.3 U	2.5 U	0.52 U
2-Chlorophenol	µg/kg	9.8 U	96 U	46 U	9.5 U
2-Methylnaphthalene	µg/kg	110	350	940	5.5 J
2-Methylphenol	µg/kg	13 U	130 U	61 U	13 U
2-Nitroaniline	µg/kg	11 U	110 U	51 U	11 U
2-Nitrophenol	µg/kg	9.9 U	97 U	46 U	9.6 U
3&4-Methylphenol	µg/kg	24 U	230 U	250 J	23 U
3,3'-Dichlorobenzidine	µg/kg	22 U	210 U	100 U	21 U
3-Nitroaniline	µg/kg	19 U	190 U	89 U	19 U
4,6-Dinitro-2-methylphenol	µg/kg	11 U	110 U	51 U	11 U
4-Bromophenyl phenyl ether	µg/kg	16 U	150 U	72 U	15 U
4-Chloro-3-methylphenol	µg/kg	25 U	250 U	120 U	24 U
4-Chloroaniline	µg/kg	20 U	200 U	95 U	20 U
4-Chlorophenyl phenyl ether	µg/kg	16 U	150 U	72 U	15 U
4-Nitroaniline	µg/kg	31 U	300 U	140 U	30 U
4-Nitrophenol	µg/kg	20 U	200 U	95 U	20 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH94-17**	**BH95-17**	**BH96-18**	**BH97-17**
	Sample Name:	**S-38443-122017-JC-016**	**S-38443-121917-JC-015**	**S-38443-010318-JC-025**	**S-38443-120817-JC-005**
	Sample Date:	**12/20/2017**	**12/19/2017**	**01/03/2018**	**12/08/2017**
	Depth:	**13-14.8 ft BGS**	**5-7 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**
Parameters	**Unit**				
Semivolatile Organic Compounds					
Acenaphthene	µg/kg	21	230	160	0.88 U
Acenaphthylene	µg/kg	10	330	1.9 U	7.4 J
Acetophenone	µg/kg	11 U	110 U	170 J	11 U
Anthracene	µg/kg	35	950	94	8.5
Atrazine	µg/kg	11 U	110 U	51 U	11 U
Benzaldehyde	µg/kg	14 U	140 U	67 U	14 U
Benzo(a)anthracene	µg/kg	110	2100	59	27
Benzo(a)pyrene	µg/kg	93	1600	21 J	32
Benzo(b)fluoranthene	µg/kg	150	2100	48	42
Benzo(g,h,i)perylene	µg/kg	82	840	1.9 U	33
Benzo(k)fluoranthene	µg/kg	31	620	3.8 U	15
Biphenyl (1,1-Biphenyl)	µg/kg	13 J	64 J	230 J	4.1 U
bis(2-Chloroethoxy)methane	µg/kg	26 U	260 U	120 U	26 U
bis(2-Chloroethyl)ether	µg/kg	2.4 U	23 U	11 U	2.3 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	98	250 J	220 U	22 U
Butyl benzylphthalate (BBP)	µg/kg	12 U	120 U	56 U	12 U
Caprolactam	µg/kg	44 U	430 U	210 U	43 U
Carbazole	µg/kg	32 U	330 J	150 U	31 U
Chrysene	µg/kg	150	1900	77	30
Di-n-butylphthalate (DBP)	µg/kg	18 U	180 U	84 U	20 J
Di-n-octyl phthalate (DnOP)	µg/kg	9.4 U	92 U	44 U	9.2 U
Dibenz(a,h)anthracene	µg/kg	28	270	3.7 U	0.77 U
Dibenzofuran	µg/kg	39 J	300 J	85 J	0.77 U
Diethyl phthalate	µg/kg	30 U	190 U	89 U	19 U
Dimethyl phthalate	µg/kg	20 U	200 U	95 U	20 U
Fluoranthene	µg/kg	240	3900	190	48
Fluorene	µg/kg	20	390	340	0.62 U
Hexachlorobenzene	µg/kg	2.5 U	25 U	12 U	2.4 U
Hexachlorobutadiene	µg/kg	6.7 U	66 U	31 U	6.5 U
Hexachlorocyclopentadiene	µg/kg	9.7 U	95 U	45 U	9.4 U
Hexachloroethane	µg/kg	11 U	110 U	50 U	10 U
Indeno(1,2,3-cd)pyrene	µg/kg	61	760	1.9 U	26
Isophorone	µg/kg	16 U	150 U	72 U	15 U
N-Nitrosodi-n-propylamine	µg/kg	7.5 U	74 U	35 U	7.3 U
N-Nitrosodiphenylamine	µg/kg	25 U	250 U	120 U	24 U
Naphthalene	µg/kg	75	320	1500	5.6 J
Nitrobenzene	µg/kg	2.6 U	26 U	12 U	2.6 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH94-17**	**BH95-17**	**BH96-18**	**BH97-17**
	Sample Name:	**S-38443-122017-JC-016**	**S-38443-121917-JC-015**	**S-38443-010318-JC-025**	**S-38443-120817-JC-005**
	Sample Date:	**12/20/2017**	**12/19/2017**	**01/03/2018**	**12/08/2017**
	Depth:	**13-14.8 ft BGS**	**5-7 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**
Parameters	**Unit**				
Semivolatile Organic Compounds					
Pentachlorophenol	µg/kg	11 U	110 U	51 U	11 U
Phenanthrene	µg/kg	180	3300	750	28
Phenol	µg/kg	8.7 U	85 U	54 J	8.5 U
Pyrene	µg/kg	200	3500	190	53
PCBs					
Aroclor-1016 (PCB-1016)	µg/kg	26 U	26 U	25 U	25 U
Aroclor-1221 (PCB-1221)	µg/kg	28 U	28 U	27 U	28 U
Aroclor-1232 (PCB-1232)	µg/kg	27 U	27 U	26 U	26 U
Aroclor-1242 (PCB-1242)	µg/kg	22 U	22 U	22 U	22 U
Aroclor-1248 (PCB-1248)	µg/kg	28 U	28 U	27 U	28 U
Aroclor-1254 (PCB-1254)	µg/kg	110	380	26 U	26 U
Aroclor-1260 (PCB-1260)	µg/kg	26 U	26 U	25 U	25 U
Pesticides					
4,4'-DDD	µg/kg	3.8 U	19 U	3.7 U	4.0 U
4,4'-DDE	µg/kg	1.4 U	6.9 U	1.4 U	1.4 U
4,4'-DDT	µg/kg	1.6 U	8.0 U	1.6 U	1.7 U
Aldrin	µg/kg	2.8 U	14 U	2.7 U	2.9 U
alpha-BHC	µg/kg	1.9 U	9.2 U	1.8 U	1.9 U
alpha-Chlordane	µg/kg	4.4 U	22 U	4.3 U	4.6 U
beta-BHC	µg/kg	4.5 U	22 U	4.4 U	4.7 U
delta-BHC	µg/kg	30 U	30 U	1.5 U	1.6 U
Dieldrin	µg/kg	1.0 U	5.2 U	1.0 U	1.1 U
Endosulfan I	µg/kg	1.5 U	7.4 U	1.5 U	1.6 U
Endosulfan II	µg/kg	2.1 U	10 U	2.0 U	2.2 U
Endosulfan sulfate	µg/kg	28 U	27 U	1.4 U	1.4 U
Endrin	µg/kg	1.6 U	8.0 UJ	1.6 U	1.7 U
Endrin aldehyde	µg/kg	42 UJ	41 UJ	20 U	2.2 U
Endrin ketone	µg/kg	1.3 U	6.3 U	1.2 U	1.3 U
gamma-BHC (lindane)	µg/kg	3.4 U	17 U	3.3 U	3.5 U
gamma-Chlordane	µg/kg	1.7 U	8.6 U	1.7 U	1.8 U
Heptachlor	µg/kg	0.91 U	4.5 U	0.88 U	0.94 U
Heptachlor epoxide	µg/kg	2.8 U	14 U	2.7 U	2.9 U
Methoxychlor	µg/kg	3.1 NJ	6.9 U	2.9 J	1.4 U
Toxaphene	µg/kg	43 U	210 U	42 U	44 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH94-17**	**BH95-17**	**BH96-18**	**BH97-17**
	Sample Name:	**S-38443-122017-JC-016**	**S-38443-121917-JC-015**	**S-38443-010318-JC-025**	**S-38443-120817-JC-005**
	Sample Date:	**12/20/2017**	**12/19/2017**	**01/03/2018**	**12/08/2017**
	Depth:	**13-14.8 ft BGS**	**5-7 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**
Parameters	**Unit**				
Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs)					
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	230	440	46	160
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	16	12	4.9 J	11 J
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	25	20	7.5	14
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	7.7	6.5	5.2 J	13
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	0.52 J	0.89 J	0.20 U	0.45 J
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	0.064 U	0.070 U	0.18 J	0.22 J
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	1.7 J	3.2 J	1.9 J	0.82 J
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	1.1 J	0.069 U	1.3 J	0.91 J
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	1.0 J	1.0 J	0.83 J	1.2 J
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	1.0 J	0.065 U	0.91 J	0.68 J
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	0.11 U	0.29 U	0.24 U	0.24 U
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	1.5 U	1.3 U	0.41 J	0.14 U
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	1.9 J	0.58 J	0.43 J	0.21 U
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	0.64 J	0.91 J	0.85 J	0.45 J
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	2.1 J	1.1 J	1.2 J	0.19 U
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	0.24 J	0.48 J	0.14 J	0.068 U
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	8.5	1.7 J	0.79 J	0.82 J
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	46 J	43 J	15 J	27 J
Total heptachlorodibenzofuran (HpCDF)	pg/g	21 J	20 J	12 J	30 J
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	10 J	8.8 J	9.1 J	7.0 J
Total hexachlorodibenzofuran (HxCDF)	pg/g	17 J	21 J	9.5 J	30 J
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	230 J	630 J	74 J	18 J
Total pentachlorodibenzofuran (PeCDF)	pg/g	26 J	31 J	10 J	54 J
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	2.9 J	3.3 J	1.5 J	1.9 J
Total tetrachlorodibenzofuran (TCDF)	pg/g	71 J	47 J	16 J	64 J

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH94-17**	**BH95-17**	**BH96-18**	**BH97-17**
	Sample Name:	**S-38443-122017-JC-016**	**S-38443-121917-JC-015**	**S-38443-010318-JC-025**	**S-38443-120817-JC-005**
	Sample Date:	**12/20/2017**	**12/19/2017**	**01/03/2018**	**12/08/2017**
	Depth:	**13-14.8 ft BGS**	**5-7 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**
Parameters	**Unit**				
Metals					
Aluminum	mg/kg	2800	1200	2500 J	11000
Antimony	mg/kg	0.68	0.55	0.55 J	0.26 J
Arsenic	mg/kg	5.8	5.5	4.4	10
Barium	mg/kg	310	120	15	73
Beryllium	mg/kg	0.44	0.37	0.097 J	0.65
Cadmium	mg/kg	1.1	0.16 J	2.2	0.12 J
Calcium	mg/kg	86000	11000	12000	14000
Chromium	mg/kg	13	7.4	71	15
Chromium III (trivalent)	mg/kg	13	7.4	71	14
Chromium VI (hexavalent)	mg/kg	0.28 U	0.28 U	0.27 U	0.88 J
Cobalt	mg/kg	4.3	3.7	3.4	7.8
Copper	mg/kg	41	61	110 J	22
Iron	mg/kg	12000	3100	44000	21000
Lead	mg/kg	570	28	38	23
Lead - coarse fraction	mg/kg	--	--	--	--
Lead - fine fraction	mg/kg	--	--	--	--
Lead - total (calculated by fine/coarse fraction)	mg/kg	--	--	--	--
Magnesium	mg/kg	20000	3200	5600	7100
Manganese	mg/kg	250 J	40	1900	370
Mercury	mg/kg	0.028 J	0.037 J	0.020 U	0.073 J
Nickel	mg/kg	15	7.1	47	19
Potassium	mg/kg	350	240	180 J	1300
Selenium	mg/kg	1.4	0.98 J	0.22 J	1.2
Silver	mg/kg	0.076 J	0.11 J	0.23	0.036 J
Sodium	mg/kg	120 J	70 J	400	110 U
Thallium	mg/kg	0.16 J	0.12 J	0.051 U	0.24 J
Vanadium	mg/kg	9.6	6.6	5.0	28
Zinc	mg/kg	14000	16	140 J	67

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH94-17**	**BH95-17**	**BH96-18**	**BH97-17**
	Sample Name:	**S-38443-122017-JC-016**	**S-38443-121917-JC-015**	**S-38443-010318-JC-025**	**S-38443-120817-JC-005**
	Sample Date:	**12/20/2017**	**12/19/2017**	**01/03/2018**	**12/08/2017**
	Depth:	**13-14.8 ft BGS**	**5-7 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**
Parameters	**Unit**				
General Chemistry					
Cyanide (total)	mg/kg	0.14 J	0.084 J	0.14 J	0.27 U

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
NJ - Tentatively identified compound, estimated concentration
PCBs - Polychlorinated Biphenyls
R - Rejected
-- - Not applicable

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH97-17**	**BH102-17**	**BH103-17**	**BH104-17**
	Sample Name:	**S-38443-120817-JC-006**	**S-38443-120717-JC-004**	**S-38443-120717-JC-002**	**S-38443-120717-JC-003**
	Sample Date:	**12/08/2017**	**12/07/2017**	**12/07/2017**	**12/07/2017**
	Depth:	**13-15 ft BGS**	**4.5-6.5 ft BGS**	**3-5 ft BGS**	**3-5 ft BGS**
		Duplicate			
Parameters	**Unit**				
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/kg	0.23 U	0.20 U	R	0.21 U
1,1,2,2-Tetrachloroethane	µg/kg	0.26 U	0.23 U	R	0.23 U
1,1,2-Trichloroethane	µg/kg	0.39 U	0.35 U	R	0.35 U
1,1-Dichloroethane	µg/kg	0.33 U	0.29 U	R	0.30 U
1,1-Dichloroethene	µg/kg	0.54 U	0.48 U	R	0.49 U
1,2,4-Trichlorobenzene	µg/kg	0.24 U	0.21 U	R	0.22 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	0.67 U	0.60 U	R	0.61 U
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	0.35 U	0.31 U	R	0.32 U
1,2-Dichlorobenzene	µg/kg	0.22 U	0.20 U	R	0.20 U
1,2-Dichloroethane	µg/kg	0.29 U	0.26 U	R	0.26 U
1,2-Dichloropropane	µg/kg	0.31 U	0.27 U	R	0.28 U
1,3-Dichlorobenzene	µg/kg	0.29 U	0.26 U	R	0.26 U
1,4-Dichlorobenzene	µg/kg	0.35 U	0.31 U	R	0.32 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	3.1 J	2.9 J	R	2.5 J
2-Hexanone	µg/kg	0.58 U	0.51 U	R	0.52 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	0.88 U	0.79 U	R	0.80 U
Acetone	µg/kg	20	14 U	R	11 U
Benzene	µg/kg	0.32 U	0.28 U	R	0.29 U
Bromodichloromethane	µg/kg	0.33 U	0.29 U	R	0.30 U
Bromoform	µg/kg	0.40 U	0.35 U	R	0.36 U
Bromomethane (Methyl bromide)	µg/kg	0.59 U	0.52 U	R	0.53 U
Carbon disulfide	µg/kg	0.21 U	0.19 U	R	0.19 U
Carbon tetrachloride	µg/kg	0.25 U	0.22 U	R	0.23 U
Chlorobenzene	µg/kg	0.33 U	0.29 U	R	0.30 U
Chloroethane	µg/kg	0.38 U	0.34 U	R	0.34 U
Chloroform (Trichloromethane)	µg/kg	0.23 U	0.20 U	R	0.21 U
Chloromethane (Methyl chloride)	µg/kg	0.38 U	0.34 U	R	0.34 U
cis-1,2-Dichloroethene	µg/kg	0.28 U	0.25 U	R	0.25 U
cis-1,3-Dichloropropene	µg/kg	0.26 U	0.23 U	R	0.23 U
Cyclohexane	µg/kg	0.21 U	0.19 U	R	0.19 U
Dibromochloromethane	µg/kg	0.30 U	0.27 U	R	0.27 U
Dichlorodifluoromethane (CFC-12)	µg/kg	0.35 U	0.31 U	R	0.32 U
Ethylbenzene	µg/kg	0.27 U	0.24 U	R	0.24 U
Isopropyl benzene	µg/kg	0.20 U	0.18 U	R	0.18 U
Methyl acetate	µg/kg	1.2 U	1.0 U	R	1.1 U
Methyl cyclohexane	µg/kg	0.23 U	0.20 U	R	0.21 U
Methyl tert butyl ether (MTBE)	µg/kg	0.27 U	0.24 U	R	0.24 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH97-17**	**BH102-17**	**BH103-17**	**BH104-17**
	Sample Name:	**S-38443-120817-JC-006**	**S-38443-120717-JC-004**	**S-38443-120717-JC-002**	**S-38443-120717-JC-003**
	Sample Date:	**12/08/2017**	**12/07/2017**	**12/07/2017**	**12/07/2017**
	Depth:	**13-15 ft BGS**	**4.5-6.5 ft BGS**	**3-5 ft BGS**	**3-5 ft BGS**
		Duplicate			
Parameters	**Unit**				
Volatile Organic Compounds					
Methylene chloride	µg/kg	0.46 U	0.91 U	R	0.94 U
Styrene	µg/kg	0.27 U	0.24 U	R	0.24 U
Tetrachloroethene	µg/kg	0.37 U	0.33 U	R	0.33 U
Toluene	µg/kg	0.34 U	0.30 U	R	0.31 U
trans-1,2-Dichloroethene	µg/kg	0.38 U	0.34 U	R	0.34 U
trans-1,3-Dichloropropene	µg/kg	0.21 U	0.19 U	R	0.19 U
Trichloroethene	µg/kg	0.41 U	0.36 U	R	0.37 U
Trichlorofluoromethane (CFC-11)	µg/kg	0.24 U	0.21 U	R	0.22 U
Trifluorotrichloroethane (CFC-113)	µg/kg	0.49 U	0.43 U	R	0.44 U
Vinyl chloride	µg/kg	0.28 J	0.25 U	R	0.25 U
Xylenes (total)	µg/kg	0.40 U	0.35 U	R	0.36 U
Semivolatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	11 U	11 U	11 U	11 U
2,4,5-Trichlorophenol	µg/kg	29 U	29 U	28 U	30 U
2,4,6-Trichlorophenol	µg/kg	10 U	10 U	10 U	11 U
2,4-Dichlorophenol	µg/kg	23 U	23 U	22 U	24 U
2,4-Dimethylphenol	µg/kg	23 U	23 U	22 U	24 U
2,4-Dinitrophenol	µg/kg	24 U	25 U	23 U	25 U
2,4-Dinitrotoluene	µg/kg	20 U	20 U	19 U	20 U
2,6-Dinitrotoluene	µg/kg	24 U	25 U	23 U	25 U
2-Chloronaphthalene	µg/kg	0.52 U	0.53 U	0.50 U	0.54 U
2-Chlorophenol	µg/kg	9.4 U	9.6 U	9.2 U	9.8 U
2-Methylnaphthalene	µg/kg	7.1 J	26	38	11
2-Methylphenol	µg/kg	13 U	13 U	12 U	13 U
2-Nitroaniline	µg/kg	10 U	11 U	10 U	11 U
2-Nitrophenol	µg/kg	9.6 U	9.7 U	9.3 U	9.9 U
3&4-Methylphenol	µg/kg	23 U	23 U	22 U	24 U
3,3'-Dichlorobenzidine	µg/kg	21 U	21 U	20 U	22 U
3-Nitroaniline	µg/kg	18 U	19 U	18 U	19 U
4,6-Dinitro-2-methylphenol	µg/kg	11 U	11 U	10 U	11 U
4-Bromophenyl phenyl ether	µg/kg	15 U	15 U	15 U	16 U
4-Chloro-3-methylphenol	µg/kg	24 U	25 U	23 U	25 U
4-Chloroaniline	µg/kg	20 U	20 U	19 U	20 U
4-Chlorophenyl phenyl ether	µg/kg	15 U	15 U	15 U	16 U
4-Nitroaniline	µg/kg	30 U	31 U	29 U	31 U
4-Nitrophenol	µg/kg	20 U	20 U	19 U	20 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH97-17**	**BH102-17**	**BH103-17**	**BH104-17**
	Sample Name:	**S-38443-120817-JC-006**	**S-38443-120717-JC-004**	**S-38443-120717-JC-002**	**S-38443-120717-JC-003**
	Sample Date:	**12/08/2017**	**12/07/2017**	**12/07/2017**	**12/07/2017**
	Depth:	**13-15 ft BGS**	**4.5-6.5 ft BGS**	**3-5 ft BGS**	**3-5 ft BGS**
		Duplicate			
Parameters	**Unit**				
Semivolatile Organic Compounds					
Acenaphthene	µg/kg	0.87 U	71	120	14
Acenaphthylene	µg/kg	12	120	9.8	17
Acetophenone	µg/kg	11 U	11 U	10 J	11 U
Anthracene	µg/kg	11	130	140	53
Atrazine	µg/kg	10 U	11 U	10 U	11 U
Benzaldehyde	µg/kg	14 U	14 U	13 U	14 U
Benzo(a)anthracene	µg/kg	39	630	450	210
Benzo(a)pyrene	µg/kg	44	570	360	190
Benzo(b)fluoranthene	µg/kg	70	980	540	270
Benzo(g,h,i)perylene	µg/kg	40	170	120	71
Benzo(k)fluoranthene	µg/kg	28	360	280	110
Biphenyl (1,1-Biphenyl)	µg/kg	4.0 U	8.1 J	13 J	4.2 U
bis(2-Chloroethoxy)methane	µg/kg	25 U	26 U	25 U	26 U
bis(2-Chloroethyl)ether	µg/kg	2.3 U	2.3 U	2.2 U	2.4 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	22 U	96	110	37 U
Butyl benzylphthalate (BBP)	µg/kg	12 U	12 U	11 U	12 U
Caprolactam	µg/kg	43 U	43 U	41 U	44 U
Carbazole	µg/kg	31 U	43 J	65	32 U
Chrysene	µg/kg	45	610	450	220
Di-n-butylphthalate (DBP)	µg/kg	17 U	18 U	17 U	18 U
Di-n-octyl phthalate (DnOP)	µg/kg	9.1 U	9.3 U	8.8 U	9.4 U
Dibenz(a,h)anthracene	µg/kg	0.76 U	61	41	29
Dibenzofuran	µg/kg	0.76 U	50 J	67	14 J
Diethyl phthalate	µg/kg	18 U	19 U	18 U	19 U
Dimethyl phthalate	µg/kg	20 U	20 U	19 U	20 U
Fluoranthene	µg/kg	81	1300	1000	410
Fluorene	µg/kg	0.61 U	95	100	19
Hexachlorobenzene	µg/kg	2.4 U	2.5 U	2.3 U	2.5 U
Hexachlorobutadiene	µg/kg	6.4 U	6.6 U	6.3 U	6.7 U
Hexachlorocyclopentadiene	µg/kg	R	R	9.1 U	9.7 U
Hexachloroethane	µg/kg	10 U	11 U	10 U	11 U
Indeno(1,2,3-cd)pyrene	µg/kg	34	180	110	66
Isophorone	µg/kg	15 U	15 U	15 U	16 U
N-Nitrosodi-n-propylamine	µg/kg	7.3 U	7.4 U	7.0 U	7.5 U
N-Nitrosodiphenylamine	µg/kg	24 U	25 U	23 U	25 U
Naphthalene	µg/kg	8.3	32	190	12
Nitrobenzene	µg/kg	2.5 U	2.6 U	2.5 U	2.6 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH97-17**	**BH102-17**	**BH103-17**	**BH104-17**
	Sample Name:	**S-38443-120817-JC-006**	**S-38443-120717-JC-004**	**S-38443-120717-JC-002**	**S-38443-120717-JC-003**
	Sample Date:	**12/08/2017**	**12/07/2017**	**12/07/2017**	**12/07/2017**
	Depth:	**13-15 ft BGS**	**4.5-6.5 ft BGS**	**3-5 ft BGS**	**3-5 ft BGS**
		Duplicate			
Parameters	**Unit**				
Semivolatile Organic Compounds					
Pentachlorophenol	µg/kg	10 U	11 U	10 U	11 U
Phenanthrene	µg/kg	51	460 J	580	170
Phenol	µg/kg	8.4 U	8.6 U	8.2 U	8.7 U
Pyrene	µg/kg	84	1200	930	430
PCBs					
Aroclor-1016 (PCB-1016)	µg/kg	26 U	26 U	510 U	27 U
Aroclor-1221 (PCB-1221)	µg/kg	28 U	29 U	550 U	29 U
Aroclor-1232 (PCB-1232)	µg/kg	27 U	27 U	530 U	28 U
Aroclor-1242 (PCB-1242)	µg/kg	22 U	23 U	440 U	23 U
Aroclor-1248 (PCB-1248)	µg/kg	28 U	29 U	550 U	29 U
Aroclor-1254 (PCB-1254)	µg/kg	27 U	33 J	16000	28 U
Aroclor-1260 (PCB-1260)	µg/kg	26 U	26 U	510 U	27 U
Pesticides					
4,4'-DDD	µg/kg	37 U	37 U	190 U	19 U
4,4'-DDE	µg/kg	14 U	13 U	67 U	7.0 U
4,4'-DDT	µg/kg	16 U	16 U	79 U	8.2 U
Aldrin	µg/kg	27 U	27 U	130 U	14 U
alpha-BHC	µg/kg	18 U	18 U	90 U	9.4 U
alpha-Chlordane	µg/kg	43 U	42 U	210 U	22 U
beta-BHC	µg/kg	44 U	43 U	220 U	23 U
delta-BHC	µg/kg	15 U	14 U	73 U	7.6 U
Dieldrin	µg/kg	10 U	10 U	51 U	5.3 U
Endosulfan I	µg/kg	15 U	14 U	73 U	7.6 U
Endosulfan II	µg/kg	20 U	20 U	100 U	11 U
Endosulfan sulfate	µg/kg	14 U	13 U	67 U	7.0 U
Endrin	µg/kg	16 U	16 U	130 NJ	8.2 U
Endrin aldehyde	µg/kg	20 U	20 UJ	100 U	11 UJ
Endrin ketone	µg/kg	12 U	12 U	62 U	6.5 U
gamma-BHC (lindane)	µg/kg	33 U	32 U	160 U	17 U
gamma-Chlordane	µg/kg	17 U	17 U	84 U	8.8 U
Heptachlor	µg/kg	8.9 U	8.7 U	44 U	4.6 U
Heptachlor epoxide	µg/kg	27 U	27 U	130 NJ	14 U
Methoxychlor	µg/kg	14 U	13 U	67 U	7.0 U
Toxaphene	µg/kg	420 U	410 U	2100 U	220 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH97-17**	**BH102-17**	**BH103-17**	**BH104-17**
	Sample Name:	**S-38443-120817-JC-006**	**S-38443-120717-JC-004**	**S-38443-120717-JC-002**	**S-38443-120717-JC-003**
	Sample Date:	**12/08/2017**	**12/07/2017**	**12/07/2017**	**12/07/2017**
	Depth:	**13-15 ft BGS**	**4.5-6.5 ft BGS**	**3-5 ft BGS**	**3-5 ft BGS**
		Duplicate			
Parameters	**Unit**				
Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs)					
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	150	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	11	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	14	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	11	--	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	0.51 J	--	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	0.23 J	--	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	0.87 J	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	0.95 J	--	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	1.2 J	--	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	0.60 J	--	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	0.15 U	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	0.32 J	--	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	0.17 U	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	0.44 J	--	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	0.41 J	--	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	0.18 J	--	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	1.2	--	--	--
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	28 J	--	--	--
Total heptachlorodibenzofuran (HpCDF)	pg/g	28 J	--	--	--
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	6.9 J	--	--	--
Total hexachlorodibenzofuran (HxCDF)	pg/g	25 J	--	--	--
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	20 J	--	--	--
Total pentachlorodibenzofuran (PeCDF)	pg/g	40 J	--	--	--
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	1.9 J	--	--	--
Total tetrachlorodibenzofuran (TCDF)	pg/g	49 J	--	--	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH97-17**	**BH102-17**	**BH103-17**	**BH104-17**
	Sample Name:	**S-38443-120817-JC-006**	**S-38443-120717-JC-004**	**S-38443-120717-JC-002**	**S-38443-120717-JC-003**
	Sample Date:	**12/08/2017**	**12/07/2017**	**12/07/2017**	**12/07/2017**
	Depth:	**13-15 ft BGS**	**4.5-6.5 ft BGS**	**3-5 ft BGS**	**3-5 ft BGS**
		Duplicate			
Parameters	**Unit**				
Metals					
Aluminum	mg/kg	9100	7200	6300	11000
Antimony	mg/kg	0.29 J	0.34 J	0.35 J	2.4 J
Arsenic	mg/kg	9.2	7.7	8.0	12
Barium	mg/kg	84	94	79	79
Beryllium	mg/kg	0.61	0.49	0.41	0.51
Cadmium	mg/kg	0.17 J	0.31	0.37	0.21 J
Calcium	mg/kg	16000	52000	83000	57000
Chromium	mg/kg	15	12	11	17
Chromium III (trivalent)	mg/kg	15	12	11	16
Chromium VI (hexavalent)	mg/kg	0.31 J	0.56 U	0.80 J	0.34 J
Cobalt	mg/kg	8.8	7.2	5.2	6.0
Copper	mg/kg	22	22 J	42 J	26 J
Iron	mg/kg	19000	14000	13000	22000
Lead	mg/kg	29	39	45	61
Lead - coarse fraction	mg/kg	--	--	--	--
Lead - fine fraction	mg/kg	--	--	--	--
Lead - total (calculated by fine/coarse fraction)	mg/kg	--	--	--	--
Magnesium	mg/kg	7200	18000	30000	23000
Manganese	mg/kg	400	310	390	240
Mercury	mg/kg	0.050 J	0.027 J	0.077 J	0.039 J
Nickel	mg/kg	17	15	12	14
Potassium	mg/kg	1200	720	1000	820
Selenium	mg/kg	1.2	0.92 J	0.70 J	0.88 J
Silver	mg/kg	0.043 J	0.065 J	0.077 J	0.041 J
Sodium	mg/kg	100 U	290	140 U	140 U
Thallium	mg/kg	0.25 J	0.22 J	0.17 J	0.31 J
Vanadium	mg/kg	26	19	18	31
Zinc	mg/kg	74	75	95	68

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH97-17**	**BH102-17**	**BH103-17**	**BH104-17**
	Sample Name:	**S-38443-120817-JC-006**	**S-38443-120717-JC-004**	**S-38443-120717-JC-002**	**S-38443-120717-JC-003**
	Sample Date:	**12/08/2017**	**12/07/2017**	**12/07/2017**	**12/07/2017**
	Depth:	**13-15 ft BGS**	**4.5-6.5 ft BGS**	**3-5 ft BGS**	**3-5 ft BGS**
		Duplicate			
Parameters	**Unit**				
General Chemistry					
Cyanide (total)	mg/kg	0.24 U	0.37 U	0.25 U	0.19 U

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
NJ - Tentatively identified compound, estimated concentration
PCBs - Polychlorinated Biphenyls
R - Rejected
-- - Not applicable

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH105-18**	**BH106-18**	**BH107-18**	**BH109-18**
	Sample Name:	**S-38443-011718-JC-047**	**S-38443-011718-JC-048**	**S-38443-011618-JC-046**	**S-38443-011618-JC-044**
	Sample Date:	**01/17/2018**	**01/17/2018**	**01/16/2018**	**01/16/2018**
	Depth:	**8.5-10.5 ft BGS**	**13-15 ft BGS**	**12-14 ft BGS**	**7.5-9.5 ft BGS**
Parameters	**Unit**				
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/kg	0.30 U	27 U	0.24 U	54 J
1,1,2,2-Tetrachloroethane	µg/kg	0.34 U	23 U	0.27 U	41 U
1,1,2-Trichloroethane	µg/kg	0.52 U	23 U	0.41 U	39 U
1,1-Dichloroethane	µg/kg	0.44 U	30 U	0.34 U	53 U
1,1-Dichloroethene	µg/kg	0.72 U	35 U	0.56 U	62 U
1,2,4-Trichlorobenzene	µg/kg	0.32 U	25 U	0.25 U	44 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	0.90 U	47 U	0.71 U	82 U
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	0.46 U	23 U	0.36 U	39 U
1,2-Dichlorobenzene	µg/kg	0.29 U	18 U	0.23 U	31 U
1,2-Dichloroethane	µg/kg	0.38 U	29 U	0.30 U	51 U
1,2-Dichloropropane	µg/kg	0.41 U	29 U	0.32 U	51 U
1,3-Dichlorobenzene	µg/kg	0.38 U	37 U	0.30 U	65 U
1,4-Dichlorobenzene	µg/kg	0.46 U	26 U	0.36 U	46 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	1.7 U	49 U	1.3 U	85 U
2-Hexanone	µg/kg	0.77 U	84 U	0.60 U	150 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	1.2 U	39 U	0.93 U	68 U
Acetone	µg/kg	4.1 U	95 U	3.2 U	170 U
Benzene	µg/kg	0.42 U	23 U	0.33 U	41 U
Bromodichloromethane	µg/kg	0.44 U	18 U	0.34 U	31 U
Bromoform	µg/kg	0.53 U	23 U	0.42 U	39 U
Bromomethane (Methyl bromide)	µg/kg	0.78 U	27 U	0.61 U	48 U
Carbon disulfide	µg/kg	0.28 U	18 U	0.22 U	31 U
Carbon tetrachloride	µg/kg	0.33 U	26 U	0.26 U	46 U
Chlorobenzene	µg/kg	0.44 U	29 U	0.34 U	51 U
Chloroethane	µg/kg	0.50 U	27 U	0.40 U	48 U
Chloroform (Trichloromethane)	µg/kg	0.30 U	23 U	0.24 U	41 U
Chloromethane (Methyl chloride)	µg/kg	0.50 U	18 U	0.40 U	31 U
cis-1,2-Dichloroethene	µg/kg	0.95 J	34 U	0.29 U	60 U
cis-1,3-Dichloropropene	µg/kg	0.34 U	23 U	0.27 U	39 U
Cyclohexane	µg/kg	0.28 U	29 U	0.22 U	85 J
Dibromochloromethane	µg/kg	0.40 U	33 U	0.31 U	58 U
Dichlorodifluoromethane (CFC-12)	µg/kg	0.46 U	22 U	0.36 U	38 U
Ethylbenzene	µg/kg	0.36 U	34 U	0.28 U	60 U
Isopropyl benzene	µg/kg	0.26 U	33 U	0.21 U	58 U
Methyl acetate	µg/kg	1.5 U	73 U	1.2 U	130 U
Methyl cyclohexane	µg/kg	0.30 U	36 U	0.24 U	270 J
Methyl tert butyl ether (MTBE)	µg/kg	0.36 U	25 U	0.28 U	44 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH105-18**	**BH106-18**	**BH107-18**	**BH109-18**
	Sample Name:	**S-38443-011718-JC-047**	**S-38443-011718-JC-048**	**S-38443-011618-JC-046**	**S-38443-011618-JC-044**
	Sample Date:	**01/17/2018**	**01/17/2018**	**01/16/2018**	**01/16/2018**
	Depth:	**8.5-10.5 ft BGS**	**13-15 ft BGS**	**12-14 ft BGS**	**7.5-9.5 ft BGS**
Parameters	**Unit**				
Volatile Organic Compounds					
Methylene chloride	µg/kg	0.86 U	64 U	6.1 U	160 U
Styrene	µg/kg	0.36 U	9.8 U	0.28 U	17 U
Tetrachloroethene	µg/kg	0.49 U	21 U	0.39 U	6200
Toluene	µg/kg	0.45 U	23 U	0.35 U	41 U
trans-1,2-Dichloroethene	µg/kg	0.50 U	34 U	0.40 U	60 U
trans-1,3-Dichloropropene	µg/kg	0.28 U	15 U	0.22 U	26 U
Trichloroethene	µg/kg	6.3 J	36 U	2.8 J	340 J
Trichlorofluoromethane (CFC-11)	µg/kg	0.32 U	33 U	0.25 U	58 U
Trifluorotrichloroethane (CFC-113)	µg/kg	0.65 U	23 U	0.51 U	39 UJ
Vinyl chloride	µg/kg	0.37 U	17 U	0.29 U	29 U
Xylenes (total)	µg/kg	0.53 U	27 U	0.42 U	49 J
Semivolatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	15 U	100 U	53 U	78 U
2,4,5-Trichlorophenol	µg/kg	40 U	270 U	140 U	200 U
2,4,6-Trichlorophenol	µg/kg	14 U	97 U	50 U	73 U
2,4-Dichlorophenol	µg/kg	32 U	220 U	110 U	160 U
2,4-Dimethylphenol	µg/kg	32 U	220 U	110 U	170 J
2,4-Dinitrophenol	µg/kg	33 U	230 U	120 U	170 U
2,4-Dinitrotoluene	µg/kg	27 U	190 U	95 U	140 U
2,6-Dinitrotoluene	µg/kg	33 U	230 U	120 U	170 U
2-Chloronaphthalene	µg/kg	0.71 U	4.9 U	2.5 U	3.7 U
2-Chlorophenol	µg/kg	13 U	89 U	46 U	67 U
2-Methylnaphthalene	µg/kg	93	5.4 U	26 J	5200
2-Methylphenol	µg/kg	17 U	120 U	62 U	110 J
2-Nitroaniline	µg/kg	14 U	99 U	51 U	75 U
2-Nitrophenol	µg/kg	13 U	90 U	47 U	68 U
3&4-Methylphenol	µg/kg	32 U	220 U	110 U	160 U
3,3'-Dichlorobenzidine	µg/kg	29 U	200 U	100 U	150 U
3-Nitroaniline	µg/kg	25 U	170 U	90 U	130 U
4,6-Dinitro-2-methylphenol	µg/kg	15 U	100 U	52 U	75 U
4-Bromophenyl phenyl ether	µg/kg	21 U	140 U	73 U	110 U
4-Chloro-3-methylphenol	µg/kg	33 U	230 U	120 U	170 U
4-Chloroaniline	µg/kg	27 U	190 U	95 U	140 U
4-Chlorophenyl phenyl ether	µg/kg	21 U	140 U	73 U	110 U
4-Nitroaniline	µg/kg	41 U	280 U	150 U	210 U
4-Nitrophenol	µg/kg	27 U	190 U	95 U	140 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH105-18**	**BH106-18**	**BH107-18**	**BH109-18**
	Sample Name:	**S-38443-011718-JC-047**	**S-38443-011718-JC-048**	**S-38443-011618-JC-046**	**S-38443-011618-JC-044**
	Sample Date:	**01/17/2018**	**01/17/2018**	**01/16/2018**	**01/16/2018**
	Depth:	**8.5-10.5 ft BGS**	**13-15 ft BGS**	**12-14 ft BGS**	**7.5-9.5 ft BGS**
Parameters	**Unit**				
Semivolatile Organic Compounds					
Acenaphthene	µg/kg	14	8.3 U	4.3 U	150
Acenaphthylene	µg/kg	17	3.8 U	2.0 U	98
Acetophenone	µg/kg	15 U	100 U	52 U	340 J
Anthracene	µg/kg	43	8.5 U	4.4 U	6.4 U
Atrazine	µg/kg	14 U	99 U	51 U	75 U
Benzaldehyde	µg/kg	19 U	130 U	67 U	98 U
Benzo(a)anthracene	µg/kg	150	6.9 U	3.5 U	360
Benzo(a)pyrene	µg/kg	180	7.0 U	88	310
Benzo(b)fluoranthene	µg/kg	250	6.4 U	120	480
Benzo(g,h,i)perylene	µg/kg	190	3.8 U	63	480
Benzo(k)fluoranthene	µg/kg	88	7.4 U	22 J	110
Biphenyl (1,1-Biphenyl)	µg/kg	14 J	38 U	20 U	480
bis(2-Chloroethoxy)methane	µg/kg	35 U	240 U	120 U	180 U
bis(2-Chloroethyl)ether	µg/kg	3.2 U	22 U	11 U	16 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	170	210 U	110 U	370 J
Butyl benzylphthalate (BBP)	µg/kg	16 U	110 U	56 U	82 U
Caprolactam	µg/kg	59 U	400 U	210 U	300 U
Carbazole	µg/kg	43 U	290 U	150 U	220 U
Chrysene	µg/kg	160	12 U	6.2 U	600
Di-n-butylphthalate (DBP)	µg/kg	24 U	160 U	84 U	120 U
Di-n-octyl phthalate (DnOP)	µg/kg	13 U	86 U	44 U	65 U
Dibenz(a,h)anthracene	µg/kg	37	7.2 U	3.7 U	5.4 U
Dibenzofuran	µg/kg	32 J	7.2 U	3.7 U	1100
Diethyl phthalate	µg/kg	25 U	170 U	90 U	130 U
Dimethyl phthalate	µg/kg	27 U	190 U	95 U	140 U
Fluoranthene	µg/kg	220	6.0 U	38	620
Fluorene	µg/kg	17	5.8 U	3.0 U	170
Hexachlorobenzene	µg/kg	3.3 U	23 U	12 U	17 U
Hexachlorobutadiene	µg/kg	8.9 U	61 U	31 U	46 U
Hexachlorocyclopentadiene	µg/kg	13 U	88 U	45 U	66 U
Hexachloroethane	µg/kg	14 U	98 U	51 U	74 U
Indeno(1,2,3-cd)pyrene	µg/kg	140	3.8 U	50	180
Isophorone	µg/kg	21 U	140 U	73 U	110 U
N-Nitrosodi-n-propylamine	µg/kg	10 U	69 U	35 U	52 U
N-Nitrosodiphenylamine	µg/kg	33 U	230 U	120 U	170 U
Naphthalene	µg/kg	61	8.9 U	4.6 U	3200
Nitrobenzene	µg/kg	3.5 U	24 U	12 U	18 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH105-18**	**BH106-18**	**BH107-18**	**BH109-18**
	Sample Name:	**S-38443-011718-JC-047**	**S-38443-011718-JC-048**	**S-38443-011618-JC-046**	**S-38443-011618-JC-044**
	Sample Date:	**01/17/2018**	**01/17/2018**	**01/16/2018**	**01/16/2018**
	Depth:	**8.5-10.5 ft BGS**	**13-15 ft BGS**	**12-14 ft BGS**	**7.5-9.5 ft BGS**
Parameters	**Unit**				
Semivolatile Organic Compounds					
Pentachlorophenol	µg/kg	14 U	99 U	51 U	75 U
Phenanthrene	µg/kg	170	45 J	44	2500
Phenol	µg/kg	12 U	80 U	41 U	60 U
Pyrene	µg/kg	210	4.8 U	39	550
PCBs					
Aroclor-1016 (PCB-1016)	µg/kg	35 U	24 U	26 U	140 U
Aroclor-1221 (PCB-1221)	µg/kg	38 U	26 U	28 U	150 U
Aroclor-1232 (PCB-1232)	µg/kg	37 U	25 U	27 U	150 U
Aroclor-1242 (PCB-1242)	µg/kg	30 U	20 U	22 U	120 U
Aroclor-1248 (PCB-1248)	µg/kg	38 U	26 U	28 U	150 U
Aroclor-1254 (PCB-1254)	µg/kg	37 U	25 U	27 U	1100
Aroclor-1260 (PCB-1260)	µg/kg	35 U	24 U	26 U	140 U
Pesticides					
4,4'-DDD	µg/kg	5.3 U	3.6 U	190 U	41 U
4,4'-DDE	µg/kg	1.9 U	1.3 U	67 U	15 U
4,4'-DDT	µg/kg	2.2 U	1.5 U	79 U	17 U
Aldrin	µg/kg	3.8 U	2.6 U	130 U	30 U
alpha-BHC	µg/kg	2.6 U	1.7 U	90 U	20 U
alpha-Chlordane	µg/kg	6.1 U	4.1 U	210 U	47 U
beta-BHC	µg/kg	6.2 U	4.2 U	220 U	48 U
delta-BHC	µg/kg	2.1 U	140 U	73 U	16 U
Dieldrin	µg/kg	1.4 U	0.97 U	50 U	11 U
Endosulfan I	µg/kg	2.1 U	1.4 U	73 U	16 U
Endosulfan II	µg/kg	2.9 U	1.9 U	100 U	22 U
Endosulfan sulfate	µg/kg	1.9 U	130 U	67 U	15 U
Endrin	µg/kg	2.2 U	1.5 U	79 U	17 U
Endrin aldehyde	µg/kg	2.9 U	190 U	100 U	22 U
Endrin ketone	µg/kg	1.8 U	1.2 U	62 U	14 U
gamma-BHC (lindane)	µg/kg	4.6 U	3.1 U	160 U	36 U
gamma-Chlordane	µg/kg	2.4 U	2.6 NJ	84 U	19 U
Heptachlor	µg/kg	1.2 U	0.84 U	44 U	9.7 U
Heptachlor epoxide	µg/kg	3.8 U	2.6 U	130 U	30 U
Methoxychlor	µg/kg	1.9 U	1.3 U	67 U	15 U
Toxaphene	µg/kg	59 U	40 U	2100 U	460 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH105-18**	**BH106-18**	**BH107-18**	**BH109-18**
	Sample Name:	**S-38443-011718-JC-047**	**S-38443-011718-JC-048**	**S-38443-011618-JC-046**	**S-38443-011618-JC-044**
	Sample Date:	**01/17/2018**	**01/17/2018**	**01/16/2018**	**01/16/2018**
	Depth:	**8.5-10.5 ft BGS**	**13-15 ft BGS**	**12-14 ft BGS**	**7.5-9.5 ft BGS**
Parameters	**Unit**				
Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs)					
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	380	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	25	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	52	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	48	--	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	3.0 J	--	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	1.7 J	--	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	11 J	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	6.9 J	--	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	7.9 J	--	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	5.6 J	--	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	1.1 UJ	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	2.1 J	--	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	2.8 J	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	6.0 J	--	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	5.1 J	--	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	0.96 U	--	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	17	--	--	--
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	98 J	--	--	--
Total heptachlorodibenzofuran (HpCDF)	pg/g	82 J	--	--	--
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	59 J	--	--	--
Total hexachlorodibenzofuran (HxCDF)	pg/g	110 J	--	--	--
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	24 J	--	--	--
Total pentachlorodibenzofuran (PeCDF)	pg/g	180 J	--	--	--
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	24 J	--	--	--
Total tetrachlorodibenzofuran (TCDF)	pg/g	270 J	--	--	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH105-18**	**BH106-18**	**BH107-18**	**BH109-18**
	Sample Name:	**S-38443-011718-JC-047**	**S-38443-011718-JC-048**	**S-38443-011618-JC-046**	**S-38443-011618-JC-044**
	Sample Date:	**01/17/2018**	**01/17/2018**	**01/16/2018**	**01/16/2018**
	Depth:	**8.5-10.5 ft BGS**	**13-15 ft BGS**	**12-14 ft BGS**	**7.5-9.5 ft BGS**
Parameters	**Unit**				
Metals					
Aluminum	mg/kg	8800	2200	6800	7700
Antimony	mg/kg	1.8 J	1.3 J	0.24 J	2.8
Arsenic	mg/kg	25	1.5	5.7	51
Barium	mg/kg	260	17	1200	290
Beryllium	mg/kg	3.3	0.19	0.40	1.7
Cadmium	mg/kg	13	0.15 J	0.26	1.8
Calcium	mg/kg	59000	140000	76000	38000
Chromium	mg/kg	84	6.1	11	41
Chromium III (trivalent)	mg/kg	84	5.1	11	41
Chromium VI (hexavalent)	mg/kg	1.9 U	0.97	0.27 U	1.5 U
Cobalt	mg/kg	10	2.7	4.4	8.3
Copper	mg/kg	120	7.2	22	950
Iron	mg/kg	21000	6400	11000	45000
Lead	mg/kg	110	11	100	380
Lead - coarse fraction	mg/kg	--	--	--	--
Lead - fine fraction	mg/kg	--	--	--	--
Lead - total (calculated by fine/coarse fraction)	mg/kg	--	--	--	--
Magnesium	mg/kg	22000	63000	33000	13000
Manganese	mg/kg	300	320	280	320
Mercury	mg/kg	0.35 J	0.022 U	0.039 J	0.48
Nickel	mg/kg	38	7.4	12	29
Potassium	mg/kg	1100	350	920	730
Selenium	mg/kg	5.6	0.32 J	0.47 J	2.8
Silver	mg/kg	0.30 J	0.020 U	0.097 J	0.48
Sodium	mg/kg	320	160 U	140 J	330
Thallium	mg/kg	0.80	0.11 J	0.13 J	1.2
Vanadium	mg/kg	41	8.4	16	30
Zinc	mg/kg	1200	29	360	370

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH105-18**	**BH106-18**	**BH107-18**	**BH109-18**
	Sample Name:	**S-38443-011718-JC-047**	**S-38443-011718-JC-048**	**S-38443-011618-JC-046**	**S-38443-011618-JC-044**
	Sample Date:	**01/17/2018**	**01/17/2018**	**01/16/2018**	**01/16/2018**
	Depth:	**8.5-10.5 ft BGS**	**13-15 ft BGS**	**12-14 ft BGS**	**7.5-9.5 ft BGS**
Parameters	**Unit**				
General Chemistry					
Cyanide (total)	mg/kg	0.31 J	0.055 U	0.055 U	2.9

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
NJ - Tentatively identified compound, estimated concentration
PCBs - Polychlorinated Biphenyls
R - Rejected
-- - Not applicable

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH110-18**	**BH111-18**	**BH112-17**	**BH113-18**
	Sample Name:	**S-38443-011618-JC-045**	**S-38443-011118-JC-042**	**S-38443-121917-JC-014**	**S-38443-010318-JC-026**
	Sample Date:	**01/16/2018**	**01/11/2018**	**12/19/2017**	**01/03/2018**
	Depth:	**6.3-8.3 ft BGS**	**7.5-9.5 ft BGS**	**13-15 ft BGS**	**9-11 ft BGS**
Parameters	**Unit**				
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/kg	34 U	0.24 U	0.25 U	0.21 U
1,1,2,2-Tetrachloroethane	µg/kg	29 U	0.27 U	0.28 UJ	0.23 U
1,1,2-Trichloroethane	µg/kg	28 U	0.40 U	0.42 U	0.35 U
1,1-Dichloroethane	µg/kg	38 U	0.34 U	0.36 U	0.30 U
1,1-Dichloroethene	µg/kg	44 U	0.56 U	0.58 U	0.49 U
1,2,4-Trichlorobenzene	µg/kg	32 U	0.25 U	0.26 UJ	0.22 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	59 U	0.70 U	0.73 UJ	0.61 U
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	28 U	0.36 U	0.38 U	0.31 U
1,2-Dichlorobenzene	µg/kg	22 U	0.23 U	0.24 UJ	0.20 U
1,2-Dichloroethane	µg/kg	37 U	0.30 U	0.31 U	0.26 U
1,2-Dichloropropane	µg/kg	37 U	0.32 U	0.33 U	0.28 U
1,3-Dichlorobenzene	µg/kg	46 U	0.30 U	0.31 UJ	0.26 U
1,4-Dichlorobenzene	µg/kg	33 U	0.36 U	0.38 UJ	0.31 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	61 U	1.3 U	12 U	1.1 U
2-Hexanone	µg/kg	110 U	0.60 U	0.63 U	0.52 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	49 U	0.92 U	0.96 U	0.80 U
Acetone	µg/kg	120 U	3.2 U	55 J	2.8 U
Benzene	µg/kg	29 U	0.33 U	0.98 J	0.29 U
Bromodichloromethane	µg/kg	22 U	0.34 U	0.36 U	0.30 U
Bromoform	µg/kg	28 U	0.41 U	0.43 U	0.36 U
Bromomethane (Methyl bromide)	µg/kg	34 U	0.61 U	0.64 U	0.53 U
Carbon disulfide	µg/kg	22 U	0.22 U	1.2 J	0.19 U
Carbon tetrachloride	µg/kg	33 U	0.26 U	0.27 U	0.22 U
Chlorobenzene	µg/kg	37 U	0.34 U	0.36 U	0.30 U
Chloroethane	µg/kg	34 U	0.39 U	0.41 U	0.34 U
Chloroform (Trichloromethane)	µg/kg	29 U	0.24 U	0.25 U	0.21 U
Chloromethane (Methyl chloride)	µg/kg	22 U	0.39 U	0.41 U	0.34 U
cis-1,2-Dichloroethene	µg/kg	43 U	0.29 U	0.79 J	0.25 U
cis-1,3-Dichloropropene	µg/kg	28 U	0.27 U	0.28 U	0.23 U
Cyclohexane	µg/kg	37 U	0.36 J	0.37 J	0.19 U
Dibromochloromethane	µg/kg	42 U	0.31 U	0.32 U	0.27 U
Dichlorodifluoromethane (CFC-12)	µg/kg	27 U	0.36 U	0.38 U	0.31 U
Ethylbenzene	µg/kg	43 U	0.28 U	0.37 J	0.24 U
Isopropyl benzene	µg/kg	45 J	0.21 U	1.3 J	0.18 U
Methyl acetate	µg/kg	92 U	1.2 U	1.3 U	1.1 U
Methyl cyclohexane	µg/kg	45 U	0.42 J	0.83 J	0.21 U
Methyl tert butyl ether (MTBE)	µg/kg	32 U	0.28 U	0.29 U	0.24 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH110-18**	**BH111-18**	**BH112-17**	**BH113-18**
	Sample Name:	**S-38443-011618-JC-045**	**S-38443-011118-JC-042**	**S-38443-121917-JC-014**	**S-38443-010318-JC-026**
	Sample Date:	**01/16/2018**	**01/11/2018**	**12/19/2017**	**01/03/2018**
	Depth:	**6.3-8.3 ft BGS**	**7.5-9.5 ft BGS**	**13-15 ft BGS**	**9-11 ft BGS**
Parameters	**Unit**				
Volatile Organic Compounds					
Methylene chloride	µg/kg	100 U	16 U	0.26 U	0.63 U
Styrene	µg/kg	12 U	0.28 U	0.29 U	0.24 U
Tetrachloroethene	µg/kg	26 U	0.38 U	0.40 U	0.33 U
Toluene	µg/kg	29 U	0.36 J	0.52 J	0.31 U
trans-1,2-Dichloroethene	µg/kg	43 U	0.39 U	0.41 U	0.34 U
trans-1,3-Dichloropropene	µg/kg	18 U	0.22 U	0.23 U	0.19 U
Trichloroethene	µg/kg	45 U	12	0.44 U	0.37 U
Trichlorofluoromethane (CFC-11)	µg/kg	42 U	0.25 U	0.26 U	0.22 U
Trifluorotrichloroethane (CFC-113)	µg/kg	28 UJ	0.51 U	0.53 U	0.44 U
Vinyl chloride	µg/kg	21 U	0.29 U	0.30 U	0.25 U
Xylenes (total)	µg/kg	45 J	0.41 U	1.4 J	0.36 U
Semivolatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	110 U	23 U	29 U	11 U
2,4,5-Trichlorophenol	µg/kg	300 U	62 U	77 U	29 U
2,4,6-Trichlorophenol	µg/kg	110 U	22 U	27 U	10 U
2,4-Dichlorophenol	µg/kg	240 U	49 U	62 U	23 U
2,4-Dimethylphenol	µg/kg	240 U	49 U	62 U	23 U
2,4-Dinitrophenol	µg/kg	250 U	52 U	65 U	24 U
2,4-Dinitrotoluene	µg/kg	200 U	42 U	52 U	20 U
2,6-Dinitrotoluene	µg/kg	250 U	52 U	65 U	24 U
2-Chloronaphthalene	µg/kg	5.4 U	1.1 U	1.4 U	0.52 U
2-Chlorophenol	µg/kg	98 U	20 U	25 U	9.4 U
2-Methylnaphthalene	µg/kg	420	39	270	0.57 U
2-Methylphenol	µg/kg	130 U	27 U	34 U	13 U
2-Nitroaniline	µg/kg	110 U	23 U	28 U	10 U
2-Nitrophenol	µg/kg	99 U	21 U	26 U	9.5 U
3&4-Methylphenol	µg/kg	240 U	49 U	91 J	23 U
3,3'-Dichlorobenzidine	µg/kg	220 U	45 U	55 U	21 U
3-Nitroaniline	µg/kg	190 U	40 U	49 U	18 U
4,6-Dinitro-2-methylphenol	µg/kg	110 U	23 U	28 U	11 U
4-Bromophenyl phenyl ether	µg/kg	160 U	32 U	40 U	15 U
4-Chloro-3-methylphenol	µg/kg	250 U	52 U	65 U	24 U
4-Chloroaniline	µg/kg	200 U	42 U	52 U	20 U
4-Chlorophenyl phenyl ether	µg/kg	160 U	32 U	40 U	15 U
4-Nitroaniline	µg/kg	310 U	64 U	80 U	30 U
4-Nitrophenol	µg/kg	200 U	42 U	52 U	20 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH110-18**	**BH111-18**	**BH112-17**	**BH113-18**
	Sample Name:	**S-38443-011618-JC-045**	**S-38443-011118-JC-042**	**S-38443-121917-JC-014**	**S-38443-010318-JC-026**
	Sample Date:	**01/16/2018**	**01/11/2018**	**12/19/2017**	**01/03/2018**
	Depth:	**6.3-8.3 ft BGS**	**7.5-9.5 ft BGS**	**13-15 ft BGS**	**9-11 ft BGS**
Parameters	**Unit**				
Semivolatile Organic Compounds					
Acenaphthene	µg/kg	550	38	50	0.87 U
Acenaphthylene	µg/kg	4.2 U	34	1.1 U	4.3 J
Acetophenone	µg/kg	110 U	23 U	56 J	11 U
Anthracene	µg/kg	9.4 U	240	40	0.90 U
Atrazine	µg/kg	110 U	23 U	28 U	10 U
Benzaldehyde	µg/kg	140 U	30 U	47 J	14 U
Benzo(a)anthracene	µg/kg	7.6 U	860	15 J	14
Benzo(a)pyrene	µg/kg	7.7 U	770	2.0 U	16
Benzo(b)fluoranthene	µg/kg	7.1 U	1100	1.8 U	23
Benzo(g,h,i)perylene	µg/kg	4.2 U	250	1.1 U	13
Benzo(k)fluoranthene	µg/kg	8.2 U	480	2.1 U	8.5
Biphenyl (1,1-Biphenyl)	µg/kg	42 U	8.7 U	86 J	4.0 U
bis(2-Chloroethoxy)methane	µg/kg	260 U	54 U	68 U	25 U
bis(2-Chloroethyl)ether	µg/kg	24 U	4.9 U	6.2 U	2.3 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	1300	620	140 J	51 U
Butyl benzylphthalate (BBP)	µg/kg	120 U	25 U	31 U	11 U
Caprolactam	µg/kg	440 U	91 U	110 U	42 U
Carbazole	µg/kg	320 U	67 U	83 U	31 U
Chrysene	µg/kg	13 U	870	30	16
Di-n-butylphthalate (DBP)	µg/kg	180 U	37 U	50 J	26 J
Di-n-octyl phthalate (DnOP)	µg/kg	95 U	20 U	24 U	9.1 U
Dibenz(a,h)anthracene	µg/kg	7.9 U	60	2.0 U	0.76 U
Dibenzofuran	µg/kg	7.9 U	26 J	49 J	0.76 U
Diethyl phthalate	µg/kg	190 U	42 J	49 U	56 U
Dimethyl phthalate	µg/kg	200 U	42 U	52 U	20 U
Fluoranthene	µg/kg	160	1800	55	26
Fluorene	µg/kg	670	51	100	0.61 U
Hexachlorobenzene	µg/kg	25 U	5.2 U	6.5 U	2.4 U
Hexachlorobutadiene	µg/kg	67 U	14 U	17 U	6.4 U
Hexachlorocyclopentadiene	µg/kg	97 U	20 U	25 U	9.3 U
Hexachloroethane	µg/kg	110 U	22 U	28 U	10 U
Indeno(1,2,3-cd)pyrene	µg/kg	4.2 U	260	1.1 U	11
Isophorone	µg/kg	160 U	32 U	40 U	15 U
N-Nitrosodi-n-propylamine	µg/kg	76 U	16 U	19 U	7.2 U
N-Nitrosodiphenylamine	µg/kg	250 U	52 U	65 U	24 U
Naphthalene	µg/kg	290	39	240	0.94 U
Nitrobenzene	µg/kg	26 U	5.4 U	6.8 U	2.5 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH110-18**	**BH111-18**	**BH112-17**	**BH113-18**
	Sample Name:	**S-38443-011618-JC-045**	**S-38443-011118-JC-042**	**S-38443-121917-JC-014**	**S-38443-010318-JC-026**
	Sample Date:	**01/16/2018**	**01/11/2018**	**12/19/2017**	**01/03/2018**
	Depth:	**6.3-8.3 ft BGS**	**7.5-9.5 ft BGS**	**13-15 ft BGS**	**9-11 ft BGS**
Parameters	**Unit**				
Semivolatile Organic Compounds					
Pentachlorophenol	µg/kg	110 U	23 U	28 U	10 U
Phenanthrene	µg/kg	1300	740	200	14
Phenol	µg/kg	88 U	18 U	23 U	8.4 U
Pyrene	µg/kg	300	1400	92	22
PCBs					
Aroclor-1016 (PCB-1016)	µg/kg	27 U	28 U	27 U	25 U
Aroclor-1221 (PCB-1221)	µg/kg	29 U	30 U	29 U	27 U
Aroclor-1232 (PCB-1232)	µg/kg	28 U	29 U	28 U	26 U
Aroclor-1242 (PCB-1242)	µg/kg	23 U	24 U	23 U	21 U
Aroclor-1248 (PCB-1248)	µg/kg	29 U	30 U	29 U	27 U
Aroclor-1254 (PCB-1254)	µg/kg	28 U	150	28 U	26 U
Aroclor-1260 (PCB-1260)	µg/kg	27 U	28 U	27 U	25 U
Pesticides					
4,4'-DDD	µg/kg	41 U	4.1 U	4.1 U	5.0 J
4,4'-DDE	µg/kg	15 U	1.5 U	1.5 U	1.3 U
4,4'-DDT	µg/kg	17 U	1.8 U	1.7 U	1.5 U
Aldrin	µg/kg	29 U	3.0 U	3.0 U	2.6 U
alpha-BHC	µg/kg	20 U	2.0 U	2.0 U	1.7 U
alpha-Chlordane	µg/kg	47 U	4.8 U	4.7 U	4.2 U
beta-BHC	µg/kg	48 U	4.9 U	4.8 U	4.3 U
delta-BHC	µg/kg	16 U	1.6 U	32 U	1.4 U
Dieldrin	µg/kg	11 U	1.1 U	1.1 U	0.98 U
Endosulfan I	µg/kg	16 U	1.6 U	1.6 U	1.4 U
Endosulfan II	µg/kg	22 U	2.3 U	2.2 U	2.0 U
Endosulfan sulfate	µg/kg	15 U	1.5 U	30 U	1.3 U
Endrin	µg/kg	17 U	1.8 U	1.7 U	1.5 U
Endrin aldehyde	µg/kg	22 U	2.3 U	45 UJ	2.0 U
Endrin ketone	µg/kg	14 U	1.4 U	1.4 U	1.2 U
gamma-BHC (lindane)	µg/kg	36 U	3.6 U	3.6 U	3.2 U
gamma-Chlordane	µg/kg	18 U	1.9 U	1.9 U	1.6 U
Heptachlor	µg/kg	9.6 U	0.98 U	0.97 U	0.85 U
Heptachlor epoxide	µg/kg	29 U	3.0 U	3.0 U	2.6 U
Methoxychlor	µg/kg	15 U	1.5 NJ	1.5 U	5.5 J
Toxaphene	µg/kg	450 U	46 U	46 U	40 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH110-18**	**BH111-18**	**BH112-17**	**BH113-18**
	Sample Name:	**S-38443-011618-JC-045**	**S-38443-011118-JC-042**	**S-38443-121917-JC-014**	**S-38443-010318-JC-026**
	Sample Date:	**01/16/2018**	**01/11/2018**	**12/19/2017**	**01/03/2018**
	Depth:	**6.3-8.3 ft BGS**	**7.5-9.5 ft BGS**	**13-15 ft BGS**	**9-11 ft BGS**
Parameters	**Unit**				
Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs)					
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	--	--	79 J	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	--	--	4.0 J	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	4.8 J	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	1.7 J	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	0.21 UJ	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	0.097 UJ	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	0.22 UJ	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	0.61 J	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	0.20 UJ	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	0.37 J	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	0.24 UJ	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	0.064 U	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	0.076 U	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	0.20 UJ	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	0.073 U	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	0.12 U	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	--	--	0.69 J	--
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	9.8 J	--
Total heptachlorodibenzofuran (HpCDF)	pg/g	--	--	5.8 J	--
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	4.0 J	--
Total hexachlorodibenzofuran (HxCDF)	pg/g	--	--	1.8 J	--
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	0.94 J	--
Total pentachlorodibenzofuran (PeCDF)	pg/g	--	--	3.5 J	--
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	0.45 J	--
Total tetrachlorodibenzofuran (TCDF)	pg/g	--	--	7.3 J	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH110-18**	**BH111-18**	**BH112-17**	**BH113-18**
	Sample Name:	**S-38443-011618-JC-045**	**S-38443-011118-JC-042**	**S-38443-121917-JC-014**	**S-38443-010318-JC-026**
	Sample Date:	**01/16/2018**	**01/11/2018**	**12/19/2017**	**01/03/2018**
	Depth:	**6.3-8.3 ft BGS**	**7.5-9.5 ft BGS**	**13-15 ft BGS**	**9-11 ft BGS**
Parameters	**Unit**				
Metals					
Aluminum	mg/kg	14000	10000 J	2000	9000 J
Antimony	mg/kg	0.33 J	2.1 J	1.2	0.48 J
Arsenic	mg/kg	8.8	13	4.4	7.5
Barium	mg/kg	84	220 J	26	68
Beryllium	mg/kg	0.82	0.90	0.11 J	0.51
Cadmium	mg/kg	0.18 J	2.1	1.5	0.20
Calcium	mg/kg	3000	36000	2600	33000
Chromium	mg/kg	20	22	83	16
Chromium III (trivalent)	mg/kg	20	22	83	16
Chromium VI (hexavalent)	mg/kg	1.4 U	1.5 U	0.30 U	1.4 U
Cobalt	mg/kg	7.6	7.1	3.2	6.8
Copper	mg/kg	16	220	52	12 J
Iron	mg/kg	21000	23000	38000	17000
Lead	mg/kg	14	180	34	12
Lead - coarse fraction	mg/kg	--	--	--	--
Lead - fine fraction	mg/kg	--	--	--	--
Lead - total (calculated by fine/coarse fraction)	mg/kg	--	--	--	--
Magnesium	mg/kg	2500	18000	910	17000
Manganese	mg/kg	620	750	2600	500
Mercury	mg/kg	0.037 J	0.12 J	0.020 U	0.018 U
Nickel	mg/kg	17	29	39	13
Potassium	mg/kg	1400	1300	86 J	700
Selenium	mg/kg	0.94 J	1.1	0.14 J	0.83 J
Silver	mg/kg	0.027 J	0.21	0.13 J	0.030 J
Sodium	mg/kg	80 J	700	61 U	120 J
Thallium	mg/kg	0.17 J	0.25	0.057 U	0.16 J
Vanadium	mg/kg	33	27	5.0	26
Zinc	mg/kg	53	440	42	40 J

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH110-18**	**BH111-18**	**BH112-17**	**BH113-18**
	Sample Name:	**S-38443-011618-JC-045**	**S-38443-011118-JC-042**	**S-38443-121917-JC-014**	**S-38443-010318-JC-026**
	Sample Date:	**01/16/2018**	**01/11/2018**	**12/19/2017**	**01/03/2018**
	Depth:	**6.3-8.3 ft BGS**	**7.5-9.5 ft BGS**	**13-15 ft BGS**	**9-11 ft BGS**
Parameters	**Unit**				
General Chemistry					
Cyanide (total)	mg/kg	0.058 U	1.5	0.14 J	0.074 J

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
NJ - Tentatively identified compound, estimated concentration
PCBs - Polychlorinated Biphenyls
R - Rejected
-- - Not applicable

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH114-18**	**BH114-18**	**BH115-18**	**BH116-18**
	Sample Name:	**S-38443-011118-JC-040**	**S-38443-011118-JC-041**	**S-38443-011118-JC-039**	**S-38443-011118-JC-038**
	Sample Date:	**01/11/2018**	**01/11/2018**	**01/11/2018**	**01/11/2018**
	Depth:	**3-5 ft BGS**	**3-5 ft BGS**	**3-5 ft BGS**	**11-13 ft BGS**
			Duplicate		
Parameters	**Unit**				
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/kg	0.21 U	0.20 U	0.34 U	0.22 U
1,1,2,2-Tetrachloroethane	µg/kg	0.24 U	0.22 U	0.39 U	0.25 U
1,1,2-Trichloroethane	µg/kg	0.36 U	0.34 U	0.58 U	0.37 U
1,1-Dichloroethane	µg/kg	0.30 U	0.29 U	0.49 U	0.31 U
1,1-Dichloroethene	µg/kg	0.50 U	0.47 U	0.80 U	0.51 U
1,2,4-Trichlorobenzene	µg/kg	0.22 U	0.21 U	0.36 U	0.23 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	0.62 U	0.59 U	1.0 U	0.64 U
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	0.32 U	0.30 U	0.52 U	0.33 U
1,2-Dichlorobenzene	µg/kg	0.20 U	0.19 U	0.33 U	0.21 U
1,2-Dichloroethane	µg/kg	0.27 U	0.25 U	0.43 U	0.27 U
1,2-Dichloropropane	µg/kg	0.28 U	0.27 U	0.46 U	0.29 U
1,3-Dichlorobenzene	µg/kg	0.27 U	0.25 U	0.43 U	0.27 U
1,4-Dichlorobenzene	µg/kg	0.32 U	0.30 U	0.52 U	0.33 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	1.2 U	1.1 U	1.9 U	1.2 U
2-Hexanone	µg/kg	0.53 U	0.50 U	0.86 U	0.55 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	0.82 U	0.77 U	1.3 U	0.84 U
Acetone	µg/kg	2.8 U	2.6 U	19 U	2.9 U
Benzene	µg/kg	0.29 U	0.28 U	0.48 U	0.30 U
Bromodichloromethane	µg/kg	0.30 U	0.29 U	0.49 U	0.31 U
Bromoform	µg/kg	0.37 U	0.35 U	0.59 U	0.38 U
Bromomethane (Methyl bromide)	µg/kg	0.54 U	0.51 U	0.88 U	0.56 U
Carbon disulfide	µg/kg	0.19 U	0.18 U	0.31 U	0.20 U
Carbon tetrachloride	µg/kg	0.23 U	0.22 U	0.37 U	0.24 U
Chlorobenzene	µg/kg	0.30 U	0.29 U	0.49 U	0.31 U
Chloroethane	µg/kg	0.35 U	0.33 U	0.56 U	0.36 U
Chloroform (Trichloromethane)	µg/kg	0.21 U	0.20 U	0.34 U	0.22 U
Chloromethane (Methyl chloride)	µg/kg	0.35 U	0.33 U	0.56 U	0.36 U
cis-1,2-Dichloroethene	µg/kg	0.26 U	0.24 U	0.42 U	0.27 U
cis-1,3-Dichloropropene	µg/kg	0.24 U	0.22 U	0.39 U	0.25 U
Cyclohexane	µg/kg	0.19 U	0.18 U	0.31 U	0.20 U
Dibromochloromethane	µg/kg	0.28 U	0.26 U	0.45 U	0.28 U
Dichlorodifluoromethane (CFC-12)	µg/kg	0.32 U	0.30 U	0.52 U	0.33 U
Ethylbenzene	µg/kg	0.30 J	0.23 U	8.6 J	0.26 U
Isopropyl benzene	µg/kg	0.18 U	0.17 U	1.4 J	0.19 U
Methyl acetate	µg/kg	1.1 U	1.0 U	1.7 U	1.1 U
Methyl cyclohexane	µg/kg	0.25 J	0.20 U	0.34 U	0.22 U
Methyl tert butyl ether (MTBE)	µg/kg	0.25 U	0.23 U	0.40 U	0.26 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH114-18**	**BH114-18**	**BH115-18**	**BH116-18**
	Sample Name:	**S-38443-011118-JC-040**	**S-38443-011118-JC-041**	**S-38443-011118-JC-039**	**S-38443-011118-JC-038**
	Sample Date:	**01/11/2018**	**01/11/2018**	**01/11/2018**	**01/11/2018**
	Depth:	**3-5 ft BGS**	**3-5 ft BGS**	**3-5 ft BGS**	**11-13 ft BGS**
			Duplicate		
Parameters	**Unit**				
Volatile Organic Compounds					
Methylene chloride	µg/kg	14 U	14 U	19 U	16 U
Styrene	µg/kg	0.25 U	0.23 U	0.40 U	0.26 U
Tetrachloroethene	µg/kg	0.34 U	0.32 U	0.55 U	0.35 U
Toluene	µg/kg	0.67 J	0.32 J	2.5 J	0.32 U
trans-1,2-Dichloroethene	µg/kg	0.35 U	0.33 U	0.56 U	0.36 U
trans-1,3-Dichloropropene	µg/kg	0.19 U	0.18 U	0.31 U	0.20 U
Trichloroethene	µg/kg	0.45 J	0.35 U	3.5 J	0.39 U
Trichlorofluoromethane (CFC-11)	µg/kg	0.22 U	0.21 U	0.36 U	0.23 U
Trifluorotrichloroethane (CFC-113)	µg/kg	0.45 U	0.42 U	0.73 U	0.46 U
Vinyl chloride	µg/kg	0.26 U	0.24 U	0.42 U	0.27 U
Xylenes (total)	µg/kg	0.37 U	0.35 U	6.4 J	0.38 U
Semivolatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	11 U	10 U	14 U	24 U
2,4,5-Trichlorophenol	µg/kg	29 U	27 U	37 U	63 U
2,4,6-Trichlorophenol	µg/kg	10 U	9.6 U	13 UJ	22 U
2,4-Dichlorophenol	µg/kg	23 U	22 U	30 U	51 U
2,4-Dimethylphenol	µg/kg	23 U	22 U	30 UJ	51 U
2,4-Dinitrophenol	µg/kg	24 U	23 U	31 U	53 U
2,4-Dinitrotoluene	µg/kg	19 U	18 U	25 U	43 U
2,6-Dinitrotoluene	µg/kg	24 U	23 U	31 U	53 U
2-Chloronaphthalene	µg/kg	0.51 U	0.48 U	0.67 U	1.1 U
2-Chlorophenol	µg/kg	9.4 U	8.8 U	12 U	21 U
2-Methylnaphthalene	µg/kg	19	8.4	21	120
2-Methylphenol	µg/kg	13 U	12 U	16 UJ	28 U
2-Nitroaniline	µg/kg	10 U	9.8 U	14 U	23 U
2-Nitrophenol	µg/kg	9.5 U	8.9 U	12 U	21 U
3&4-Methylphenol	µg/kg	23 U	22 U	30 UJ	51 U
3,3'-Dichlorobenzidine	µg/kg	21 U	19 U	R	45 U
3-Nitroaniline	µg/kg	18 U	17 U	24 U	40 U
4,6-Dinitro-2-methylphenol	µg/kg	10 U	9.9 U	14 U	23 U
4-Bromophenyl phenyl ether	µg/kg	15 U	14 U	19 U	33 U
4-Chloro-3-methylphenol	µg/kg	24 U	23 U	31 U	53 U
4-Chloroaniline	µg/kg	19 U	18 U	25 U	43 U
4-Chlorophenyl phenyl ether	µg/kg	15 U	14 U	19 U	33 U
4-Nitroaniline	µg/kg	30 U	28 U	39 U	66 U
4-Nitrophenol	µg/kg	19 U	18 U	25 U	43 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH114-18**	**BH114-18**	**BH115-18**	**BH116-18**
	Sample Name:	**S-38443-011118-JC-040**	**S-38443-011118-JC-041**	**S-38443-011118-JC-039**	**S-38443-011118-JC-038**
	Sample Date:	**01/11/2018**	**01/11/2018**	**01/11/2018**	**01/11/2018**
	Depth:	**3-5 ft BGS**	**3-5 ft BGS**	**3-5 ft BGS**	**11-13 ft BGS**
			Duplicate		
Parameters	**Unit**				
Semivolatile Organic Compounds					
Acenaphthene	µg/kg	0.87 U	0.82 U	6.9 J	24
Acenaphthylene	µg/kg	4.0 J	0.38 U	0.52 U	35
Acetophenone	µg/kg	10 U	9.9 U	14 U	23 U
Anthracene	µg/kg	4.3 J	6.0 J	6.9 J	100
Atrazine	µg/kg	10 U	9.8 U	14 U	23 U
Benzaldehyde	µg/kg	14 U	13 U	18 U	30 U
Benzo(a)anthracene	µg/kg	35	64	30 J	360
Benzo(a)pyrene	µg/kg	28	60	25 J	430
Benzo(b)fluoranthene	µg/kg	45	77	48 J	620
Benzo(g,h,i)perylene	µg/kg	27	41	24 J	190
Benzo(k)fluoranthene	µg/kg	14	31	16 J	240
Biphenyl (1,1-Biphenyl)	µg/kg	4.0 U	3.8 U	5.2 U	36 J
bis(2-Chloroethoxy)methane	µg/kg	25 U	24 U	33 U	56 U
bis(2-Chloroethyl)ether	µg/kg	2.3 U	2.2 U	3.0 U	5.1 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	28 J	23 J	28 U	48 U
Butyl benzylphthalate (BBP)	µg/kg	11 U	11 U	15 U	25 U
Caprolactam	µg/kg	42 U	40 U	55 U	93 U
Carbazole	µg/kg	31 U	29 U	40 U	68 U
Chrysene	µg/kg	43	85	42 J	470
Di-n-butylphthalate (DBP)	µg/kg	17 U	16 U	22 U	38 U
Di-n-octyl phthalate (DnOP)	µg/kg	9.0 U	8.5 U	12 U	20 U
Dibenz(a,h)anthracene	µg/kg	0.75 U	10	0.98 UJ	63
Dibenzofuran	µg/kg	0.75 U	0.71 U	11 J	68 J
Diethyl phthalate	µg/kg	18 U	21 J	24 U	40 U
Dimethyl phthalate	µg/kg	19 U	18 U	25 U	43 U
Fluoranthene	µg/kg	46	67	86 J	720
Fluorene	µg/kg	0.60 U	0.57 U	0.79 U	53
Hexachlorobenzene	µg/kg	2.4 U	2.3 U	3.1 U	5.3 U
Hexachlorobutadiene	µg/kg	6.4 U	6.0 U	8.3 U	14 U
Hexachlorocyclopentadiene	µg/kg	9.2 U	8.7 U	R	20 U
Hexachloroethane	µg/kg	10 U	9.7 U	13 U	23 U
Indeno(1,2,3-cd)pyrene	µg/kg	18	26	15 J	180
Isophorone	µg/kg	15 U	14 U	19 U	33 U
N-Nitrosodi-n-propylamine	µg/kg	7.2 U	6.8 U	9.4 U	16 U
N-Nitrosodiphenylamine	µg/kg	24 U	23 U	31 UJ	53 U
Naphthalene	µg/kg	12	5.7 J	20	110
Nitrobenzene	µg/kg	2.5 U	2.4 U	3.3 U	5.6 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH114-18**	**BH114-18**	**BH115-18**	**BH116-18**
	Sample Name:	**S-38443-011118-JC-040**	**S-38443-011118-JC-041**	**S-38443-011118-JC-039**	**S-38443-011118-JC-038**
	Sample Date:	**01/11/2018**	**01/11/2018**	**01/11/2018**	**01/11/2018**
	Depth:	**3-5 ft BGS**	**3-5 ft BGS**	**3-5 ft BGS**	**11-13 ft BGS**
			Duplicate		
Parameters	**Unit**				
Semivolatile Organic Compounds					
Pentachlorophenol	µg/kg	10 U	9.8 U	R	23 U
Phenanthrene	µg/kg	26	24	90 J	570
Phenol	µg/kg	8.3 U	7.9 U	11 U	18 U
Pyrene	µg/kg	59	100	73 J	610
PCBs					
Aroclor-1016 (PCB-1016)	µg/kg	25 U	24 U	33 U	27 U
Aroclor-1221 (PCB-1221)	µg/kg	28 U	26 U	36 U	30 U
Aroclor-1232 (PCB-1232)	µg/kg	26 U	25 U	34 U	29 U
Aroclor-1242 (PCB-1242)	µg/kg	22 U	21 U	28 U	24 U
Aroclor-1248 (PCB-1248)	µg/kg	28 U	26 U	36 U	30 U
Aroclor-1254 (PCB-1254)	µg/kg	26 U	25 U	34 U	29 U
Aroclor-1260 (PCB-1260)	µg/kg	25 U	24 U	33 U	27 U
Pesticides					
4,4'-DDD	µg/kg	3.8 U	3.6 U	4.9 U	41 U
4,4'-DDE	µg/kg	1.4 U	1.3 U	1.8 U	15 U
4,4'-DDT	µg/kg	1.6 U	1.5 U	3.1 J	17 U
Aldrin	µg/kg	2.8 U	2.6 U	3.6 U	30 U
alpha-BHC	µg/kg	1.8 U	1.7 U	2.4 U	20 U
alpha-Chlordane	µg/kg	4.4 U	4.1 U	5.7 U	47 U
beta-BHC	µg/kg	4.5 U	4.2 U	5.8 U	49 U
delta-BHC	µg/kg	1.5 U	1.4 U	1.9 U	16 U
Dieldrin	µg/kg	1.0 U	0.97 U	1.3 U	11 U
Endosulfan I	µg/kg	1.5 U	1.4 U	1.9 U	16 U
Endosulfan II	µg/kg	2.1 U	1.9 U	2.7 U	22 U
Endosulfan sulfate	µg/kg	1.4 U	1.3 U	1.8 U	15 U
Endrin	µg/kg	1.6 U	1.5 U	2.1 U	17 U
Endrin aldehyde	µg/kg	2.1 U	1.9 U	5.4 J	22 U
Endrin ketone	µg/kg	1.3 U	1.2 U	1.6 U	14 U
gamma-BHC (lindane)	µg/kg	3.3 U	3.1 U	4.3 U	36 U
gamma-Chlordane	µg/kg	1.7 U	1.6 U	2.2 U	19 U
Heptachlor	µg/kg	0.90 U	0.84 U	1.2 U	9.7 U
Heptachlor epoxide	µg/kg	2.8 U	2.6 U	3.6 U	30 U
Methoxychlor	µg/kg	2.7 J	1.3 U	1.8 U	15 U
Toxaphene	µg/kg	43 U	40 U	55 U	460 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH114-18**	**BH114-18**	**BH115-18**	**BH116-18**
	Sample Name:	**S-38443-011118-JC-040**	**S-38443-011118-JC-041**	**S-38443-011118-JC-039**	**S-38443-011118-JC-038**
	Sample Date:	**01/11/2018**	**01/11/2018**	**01/11/2018**	**01/11/2018**
	Depth:	**3-5 ft BGS**	**3-5 ft BGS**	**3-5 ft BGS**	**11-13 ft BGS**
			Duplicate		
Parameters	**Unit**				
Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs)					
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	--	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	--	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--	--
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--	--
Total heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--	--
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--	--
Total hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--	--
Total pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--	--
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--	--
Total tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH114-18**	**BH114-18**	**BH115-18**	**BH116-18**
	Sample Name:	**S-38443-011118-JC-040**	**S-38443-011118-JC-041**	**S-38443-011118-JC-039**	**S-38443-011118-JC-038**
	Sample Date:	**01/11/2018**	**01/11/2018**	**01/11/2018**	**01/11/2018**
	Depth:	**3-5 ft BGS**	**3-5 ft BGS**	**3-5 ft BGS**	**11-13 ft BGS**
			Duplicate		
Parameters	**Unit**				
Metals					
Aluminum	mg/kg	5900 J	3900 J	14000 J	12000 J
Antimony	mg/kg	0.60 J	0.23 J	1.1 J	2.8 J
Arsenic	mg/kg	11	7.9	45	13
Barium	mg/kg	68 J	42 J	440 J	200 J
Beryllium	mg/kg	0.48	0.28	6.5	0.96
Cadmium	mg/kg	0.42	0.40	0.31	19
Calcium	mg/kg	87000	150000	3400	65000
Chromium	mg/kg	12	8.8	33	13
Chromium III (trivalent)	mg/kg	12	8.8	32	13
Chromium VI (hexavalent)	mg/kg	0.32 J	0.26 U	0.69 J	1.5 U
Cobalt	mg/kg	5.4	4.3	22	6.3
Copper	mg/kg	24	13	64	410
Iron	mg/kg	13000	9300	8200	22000
Lead	mg/kg	27	18	34	120
Lead - coarse fraction	mg/kg	--	--	--	--
Lead - fine fraction	mg/kg	--	--	--	--
Lead - total (calculated by fine/coarse fraction)	mg/kg	--	--	--	--
Magnesium	mg/kg	38000	36000	820	32000
Manganese	mg/kg	470	710	46	420
Mercury	mg/kg	0.024 J	0.026 J	0.55	0.32
Nickel	mg/kg	14	10	36	35
Potassium	mg/kg	690	480	1600	820
Selenium	mg/kg	0.71 J	0.47 J	3.1	7.3
Silver	mg/kg	0.051 J	0.029 J	0.10 J	0.44
Sodium	mg/kg	130 J	130 J	450	210 J
Thallium	mg/kg	0.22	0.20 J	1.4	0.26
Vanadium	mg/kg	17	11	72	18
Zinc	mg/kg	140	52	48	1200

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH114-18**	**BH114-18**	**BH115-18**	**BH116-18**
	Sample Name:	**S-38443-011118-JC-040**	**S-38443-011118-JC-041**	**S-38443-011118-JC-039**	**S-38443-011118-JC-038**
	Sample Date:	**01/11/2018**	**01/11/2018**	**01/11/2018**	**01/11/2018**
	Depth:	**3-5 ft BGS**	**3-5 ft BGS**	**3-5 ft BGS**	**11-13 ft BGS**
			Duplicate		
Parameters	**Unit**				
General Chemistry					
Cyanide (total)	mg/kg	0.15 U	0.13 U	0.25 U	0.59 U

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
NJ - Tentatively identified compound, estimated concentration
PCBs - Polychlorinated Biphenyls
R - Rejected
-- - Not applicable

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH117-18**	**BH118-18**	**BH118-18**	**BH119-18**
	Sample Name:	**S-38443-011818-JC-050**	**S-38443-011818-JC-051**	**S-38443-011818-JC-052**	**S-38443-011818-JC-053**
	Sample Date:	**01/18/2018**	**01/18/2018**	**01/18/2018**	**01/18/2018**
	Depth:	**10-12 ft BGS**	**3-5 ft BGS**	**3-5 ft BGS**	**9-11 ft BGS**
				Duplicate	
Parameters	**Unit**				
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/kg	0.20 UJ	0.24 UJ	0.27 UJ	0.21 UJ
1,1,2,2-Tetrachloroethane	µg/kg	0.23 U	0.27 U	0.31 U	0.24 U
1,1,2-Trichloroethane	µg/kg	0.34 U	0.41 U	0.46 U	0.36 U
1,1-Dichloroethane	µg/kg	0.29 U	0.35 U	0.39 U	0.31 U
1,1-Dichloroethene	µg/kg	0.48 U	0.57 U	0.63 U	0.50 U
1,2,4-Trichlorobenzene	µg/kg	0.21 U	0.25 U	0.28 U	0.22 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	0.60 U	0.72 U	0.80 U	0.63 U
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	0.31 U	0.37 U	0.41 U	0.32 U
1,2-Dichlorobenzene	µg/kg	0.19 U	0.23 U	0.26 U	0.20 U
1,2-Dichloroethane	µg/kg	0.26 U	0.31 U	0.34 U	0.27 U
1,2-Dichloropropane	µg/kg	0.27 U	0.33 U	0.36 U	0.29 U
1,3-Dichlorobenzene	µg/kg	0.26 U	0.31 U	0.34 U	0.27 U
1,4-Dichlorobenzene	µg/kg	0.31 U	0.37 U	0.41 U	0.32 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	1.1 U	7.3 J	6.4 J	1.2 U
2-Hexanone	µg/kg	0.51 U	0.61 U	0.68 U	0.54 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	0.79 U	0.94 U	1.0 U	0.82 U
Acetone	µg/kg	8.8 U	42	37	9.0 U
Benzene	µg/kg	0.28 U	0.34 U	0.38 U	0.30 U
Bromodichloromethane	µg/kg	0.29 U	0.35 U	0.39 U	0.31 U
Bromoform	µg/kg	0.35 U	0.42 U	0.47 U	0.37 U
Bromomethane (Methyl bromide)	µg/kg	0.52 U	0.62 U	0.69 U	0.55 U
Carbon disulfide	µg/kg	0.19 U	0.34 J	0.38 J	0.19 U
Carbon tetrachloride	µg/kg	0.22 U	0.26 U	0.29 U	0.23 U
Chlorobenzene	µg/kg	0.29 U	0.35 U	0.39 U	0.31 U
Chloroethane	µg/kg	0.34 U	0.40 U	0.45 U	0.35 U
Chloroform (Trichloromethane)	µg/kg	0.20 U	0.24 U	0.27 U	0.21 U
Chloromethane (Methyl chloride)	µg/kg	0.34 U	0.40 U	0.45 U	0.35 U
cis-1,2-Dichloroethene	µg/kg	0.25 U	0.30 U	0.33 U	0.26 U
cis-1,3-Dichloropropene	µg/kg	0.23 U	0.27 U	0.31 U	0.24 U
Cyclohexane	µg/kg	0.19 U	0.22 U	0.25 U	0.19 U
Dibromochloromethane	µg/kg	0.27 U	0.32 U	0.35 U	0.28 U
Dichlorodifluoromethane (CFC-12)	µg/kg	0.31 U	0.37 U	0.41 U	0.32 U
Ethylbenzene	µg/kg	0.24 U	0.28 U	0.32 U	0.25 U
Isopropyl benzene	µg/kg	0.18 U	0.21 U	0.23 U	0.19 U
Methyl acetate	µg/kg	1.0 U	1.2 U	1.4 U	1.1 U
Methyl cyclohexane	µg/kg	0.20 U	0.24 U	0.27 U	0.21 U
Methyl tert butyl ether (MTBE)	µg/kg	0.24 U	0.28 U	0.32 U	0.25 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH117-18**	**BH118-18**	**BH118-18**	**BH119-18**
	Sample Name:	**S-38443-011818-JC-050**	**S-38443-011818-JC-051**	**S-38443-011818-JC-052**	**S-38443-011818-JC-053**
	Sample Date:	**01/18/2018**	**01/18/2018**	**01/18/2018**	**01/18/2018**
	Depth:	**10-12 ft BGS**	**3-5 ft BGS**	**3-5 ft BGS Duplicate**	**9-11 ft BGS**
Parameters	**Unit**				
Volatile Organic Compounds					
Methylene chloride	µg/kg	5.3 U	5.0 U	6.8 U	5.4 U
Styrene	µg/kg	0.24 U	0.28 U	0.32 U	0.25 U
Tetrachloroethene	µg/kg	0.33 U	0.39 U	0.43 U	0.34 U
Toluene	µg/kg	0.30 U	0.36 U	0.40 U	0.31 U
trans-1,2-Dichloroethene	µg/kg	0.34 U	0.40 U	0.45 U	0.35 U
trans-1,3-Dichloropropene	µg/kg	0.19 U	0.22 U	0.25 U	0.19 U
Trichloroethene	µg/kg	0.36 U	0.43 U	0.48 U	0.38 U
Trichlorofluoromethane (CFC-11)	µg/kg	0.21 U	0.25 U	0.28 U	0.22 U
Trifluorotrichloroethane (CFC-113)	µg/kg	0.43 U	0.52 U	0.58 U	0.45 U
Vinyl chloride	µg/kg	0.25 U	0.30 U	0.33 U	0.26 U
Xylenes (total)	µg/kg	0.35 U	0.42 U	0.47 U	0.37 U
Semivolatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	11 U	10 U	11 U	11 U
2,4,5-Trichlorophenol	µg/kg	29 U	26 U	28 U	29 U
2,4,6-Trichlorophenol	µg/kg	10 U	9.4 U	10 U	10 U
2,4-Dichlorophenol	µg/kg	23 U	21 U	22 U	23 U
2,4-Dimethylphenol	µg/kg	23 U	21 U	22 U	23 U
2,4-Dinitrophenol	µg/kg	24 U	22 U	24 U	25 U
2,4-Dinitrotoluene	µg/kg	20 U	18 U	19 U	20 U
2,6-Dinitrotoluene	µg/kg	24 U	22 U	24 U	25 U
2-Chloronaphthalene	µg/kg	0.52 U	0.47 U	0.50 U	0.53 U
2-Chlorophenol	µg/kg	9.5 U	8.6 U	9.2 U	9.6 U
2-Methylnaphthalene	µg/kg	4.5 J	11 J	35 J	50
2-Methylphenol	µg/kg	13 U	12 U	12 U	13 U
2-Nitroaniline	µg/kg	11 U	9.6 U	10 U	11 U
2-Nitrophenol	µg/kg	9.6 U	8.7 U	9.3 U	9.7 U
3&4-Methylphenol	µg/kg	23 U	21 U	22 U	23 U
3,3'-Dichlorobenzidine	µg/kg	21 U	19 U	20 U	21 U
3-Nitroaniline	µg/kg	19 U	17 U	18 U	19 U
4,6-Dinitro-2-methylphenol	µg/kg	11 U	9.7 U	10 U	11 U
4-Bromophenyl phenyl ether	µg/kg	15 U	14 U	15 U	15 U
4-Chloro-3-methylphenol	µg/kg	24 U	22 U	24 U	25 U
4-Chloroaniline	µg/kg	20 U	18 U	19 U	20 U
4-Chlorophenyl phenyl ether	µg/kg	15 U	14 U	15 U	15 U
4-Nitroaniline	µg/kg	30 U	27 U	29 U	31 U
4-Nitrophenol	µg/kg	20 U	18 U	19 U	20 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH117-18**	**BH118-18**	**BH118-18**	**BH119-18**
	Sample Name:	**S-38443-011818-JC-050**	**S-38443-011818-JC-051**	**S-38443-011818-JC-052**	**S-38443-011818-JC-053**
	Sample Date:	**01/18/2018**	**01/18/2018**	**01/18/2018**	**01/18/2018**
	Depth:	**10-12 ft BGS**	**3-5 ft BGS**	**3-5 ft BGS**	**9-11 ft BGS**
				Duplicate	
Parameters	**Unit**				
Semivolatile Organic Compounds					
Acenaphthene	µg/kg	12	4.3 J	16	0.89 U
Acenaphthylene	µg/kg	0.41 U	0.37 U	6.2 J	7.5 J
Acetophenone	µg/kg	11 U	9.7 U	10 U	11 U
Anthracene	µg/kg	39	5.0 J	34 J	48
Atrazine	µg/kg	11 U	9.6 U	10 U	11 U
Benzaldehyde	µg/kg	14 U	13 U	13 U	14 U
Benzo(a)anthracene	µg/kg	160	61	100	740
Benzo(a)pyrene	µg/kg	190	120	130	630
Benzo(b)fluoranthene	µg/kg	270	320	290	910
Benzo(g,h,i)perylene	µg/kg	160	170	140	340
Benzo(k)fluoranthene	µg/kg	80	91	91	380
Biphenyl (1,1-Biphenyl)	µg/kg	4.1 U	4.4 J	9.3 J	7.5 J
bis(2-Chloroethoxy)methane	µg/kg	26 U	23 U	25 U	26 U
bis(2-Chloroethyl)ether	µg/kg	2.3 U	2.1 U	2.2 U	2.3 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	38 J	20 U	21 U	22 U
Butyl benzylphthalate (BBP)	µg/kg	12 U	11 U	11 U	12 U
Caprolactam	µg/kg	43 U	39 U	41 U	43 U
Carbazole	µg/kg	31 U	28 U	30 U	51 J
Chrysene	µg/kg	170	120	150	730
Di-n-butylphthalate (DBP)	µg/kg	17 U	16 U	17 U	18 U
Di-n-octyl phthalate (DnOP)	µg/kg	9.2 U	8.3 U	8.9 U	9.3 U
Dibenz(a,h)anthracene	µg/kg	35	50	40	100
Dibenzofuran	µg/kg	0.77 U	0.69 U	24 J	17 J
Diethyl phthalate	µg/kg	19 U	17 U	18 U	43 J
Dimethyl phthalate	µg/kg	20 U	18 U	19 U	20 U
Fluoranthene	µg/kg	380	52 J	200 J	1100
Fluorene	µg/kg	13	4.0 J	17	6.5 J
Hexachlorobenzene	µg/kg	2.4 U	2.2 U	2.4 U	2.5 U
Hexachlorobutadiene	µg/kg	6.5 U	5.9 U	6.3 U	6.6 U
Hexachlorocyclopentadiene	µg/kg	9.4 U	8.5 U	9.1 U	9.5 U
Hexachloroethane	µg/kg	10 U	9.5 U	10 U	11 U
Indeno(1,2,3-cd)pyrene	µg/kg	130	140	110	310
Isophorone	µg/kg	15 U	14 U	15 U	15 U
N-Nitrosodi-n-propylamine	µg/kg	7.3 U	6.6 U	7.1 U	7.4 U
N-Nitrosodiphenylamine	µg/kg	24 U	22 U	24 U	25 U
Naphthalene	µg/kg	7.2 J	15 J	40 J	40
Nitrobenzene	µg/kg	2.6 U	2.3 U	2.5 U	2.6 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH117-18**	**BH118-18**	**BH118-18**	**BH119-18**
	Sample Name:	**S-38443-011818-JC-050**	**S-38443-011818-JC-051**	**S-38443-011818-JC-052**	**S-38443-011818-JC-053**
	Sample Date:	**01/18/2018**	**01/18/2018**	**01/18/2018**	**01/18/2018**
	Depth:	**10-12 ft BGS**	**3-5 ft BGS**	**3-5 ft BGS Duplicate**	**9-11 ft BGS**
Parameters	**Unit**				
Semivolatile Organic Compounds					
Pentachlorophenol	µg/kg	11 U	9.6 U	10 U	11 U
Phenanthrene	µg/kg	170	38 J	190 J	190
Phenol	µg/kg	8.5 U	7.7 U	8.2 U	8.6 U
Pyrene	µg/kg	290	45 J	150 J	830
PCBs					
Aroclor-1016 (PCB-1016)	µg/kg	25 U	23 U	25 U	25 U
Aroclor-1221 (PCB-1221)	µg/kg	27 U	25 U	27 U	27 U
Aroclor-1232 (PCB-1232)	µg/kg	26 U	24 U	26 U	26 U
Aroclor-1242 (PCB-1242)	µg/kg	22 U	20 U	21 U	21 U
Aroclor-1248 (PCB-1248)	µg/kg	27 U	25 U	27 U	27 U
Aroclor-1254 (PCB-1254)	µg/kg	26 U	24 U	26 U	26 U
Aroclor-1260 (PCB-1260)	µg/kg	25 U	23 U	25 U	25 U
Pesticides					
4,4'-DDD	µg/kg	3.8 U	3.4 U	3.6 U	3.8 U
4,4'-DDE	µg/kg	1.4 U	1.2 U	1.3 UJ	1.4 U
4,4'-DDT	µg/kg	1.6 U	1.5 U	1.5 U	1.6 U
Aldrin	µg/kg	2.8 U	2.5 U	2.6 U	2.8 U
alpha-BHC	µg/kg	1.9 U	1.7 U	1.8 U	1.9 U
alpha-Chlordane	µg/kg	4.4 U	4.0 U	4.2 U	4.4 U
beta-BHC	µg/kg	4.5 U	4.1 U	4.3 U	4.5 U
delta-BHC	µg/kg	1.5 U	1.4 U	72 U	1.5 U
Dieldrin	µg/kg	1.0 U	0.94 U	0.99 U	1.0 U
Endosulfan I	µg/kg	1.5 U	1.4 U	1.4 U	1.5 U
Endosulfan II	µg/kg	2.1 U	1.9 U	2.0 U	2.1 U
Endosulfan sulfate	µg/kg	1.4 U	1.2 U	66 U	1.4 U
Endrin	µg/kg	1.6 U	1.5 U	1.5 UJ	1.6 U
Endrin aldehyde	µg/kg	2.1 U	1.9 U	99 U	2.1 U
Endrin ketone	µg/kg	1.3 U	1.1 U	1.2 U	1.3 U
gamma-BHC (lindane)	µg/kg	3.4 U	3.0 U	3.2 U	3.4 U
gamma-Chlordane	µg/kg	1.7 U	1.6 U	1.7 U	1.7 U
Heptachlor	µg/kg	0.90 U	0.81 U	0.86 U	0.91 U
Heptachlor epoxide	µg/kg	2.8 U	2.5 U	2.6 U	2.8 U
Methoxychlor	µg/kg	1.5 NJ	1.2 U	1.3 U	1.4 U
Toxaphene	µg/kg	43 U	38 U	41 U	43 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH117-18**	**BH118-18**	**BH118-18**	**BH119-18**
	Sample Name:	**S-38443-011818-JC-050**	**S-38443-011818-JC-051**	**S-38443-011818-JC-052**	**S-38443-011818-JC-053**
	Sample Date:	**01/18/2018**	**01/18/2018**	**01/18/2018**	**01/18/2018**
	Depth:	**10-12 ft BGS**	**3-5 ft BGS**	**3-5 ft BGS**	**9-11 ft BGS**
				Duplicate	
Parameters	**Unit**				
Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs)					
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	--	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	--	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--	--
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--	--
Total heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--	--
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--	--
Total hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--	--
Total pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--	--
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--	--
Total tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH117-18**	**BH118-18**	**BH118-18**	**BH119-18**
	Sample Name:	**S-38443-011818-JC-050**	**S-38443-011818-JC-051**	**S-38443-011818-JC-052**	**S-38443-011818-JC-053**
	Sample Date:	**01/18/2018**	**01/18/2018**	**01/18/2018**	**01/18/2018**
	Depth:	**10-12 ft BGS**	**3-5 ft BGS**	**3-5 ft BGS**	**9-11 ft BGS**
				Duplicate	
Parameters	**Unit**				
Metals					
Aluminum	mg/kg	8000	2000	2900	6100
Antimony	mg/kg	0.34 UJ	2.0 J	1.3 J	1.2 J
Arsenic	mg/kg	12	5.9	7.6	15
Barium	mg/kg	77	21	62	90
Beryllium	mg/kg	0.54	0.25	0.26	0.49
Cadmium	mg/kg	0.21	0.34	0.59	0.55
Calcium	mg/kg	16000	1400 J	16000 J	58000
Chromium	mg/kg	17	40	53	23
Chromium III (trivalent)	mg/kg	17	39	53	23
Chromium VI (hexavalent)	mg/kg	1.4 U	0.30 J	0.27 U	1.4 U
Cobalt	mg/kg	6.5	3.1	4.7	6.5
Copper	mg/kg	16	75	92	53
Iron	mg/kg	18000	33000	47000	43000
Lead	mg/kg	15	27	45	38
Lead - coarse fraction	mg/kg	--	--	--	--
Lead - fine fraction	mg/kg	--	--	--	--
Lead - total (calculated by fine/coarse fraction)	mg/kg	--	--	--	--
Magnesium	mg/kg	8900	610 J	5700 J	18000
Manganese	mg/kg	450 J	470 J	890 J	380 J
Mercury	mg/kg	0.027 J	0.021 U	0.054 J	0.23
Nickel	mg/kg	15	29	41	19
Potassium	mg/kg	1000	140 J	330	1300
Selenium	mg/kg	0.74 J	0.35 J	0.44 J	2.3
Silver	mg/kg	0.042 J	0.085 J	0.14 J	0.093 J
Sodium	mg/kg	60 J	55 J	73 J	150 J
Thallium	mg/kg	0.18 J	0.089 J	0.097 J	0.18 J
Vanadium	mg/kg	27	4.6	8.0	19
Zinc	mg/kg	58	98	59	270

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH117-18**	**BH118-18**	**BH118-18**	**BH119-18**
	Sample Name:	**S-38443-011818-JC-050**	**S-38443-011818-JC-051**	**S-38443-011818-JC-052**	**S-38443-011818-JC-053**
	Sample Date:	**01/18/2018**	**01/18/2018**	**01/18/2018**	**01/18/2018**
	Depth:	**10-12 ft BGS**	**3-5 ft BGS**	**3-5 ft BGS**	**9-11 ft BGS**
				Duplicate	
Parameters	**Unit**				
General Chemistry					
Cyanide (total)	mg/kg	0.11 J	0.077 J	0.15 J	7.6

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
NJ - Tentatively identified compound, estimated concentration
PCBs - Polychlorinated Biphenyls
R - Rejected
-- - Not applicable

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH120-18**	**BH121-18**	**BH122-18**	**BH125-18**
	Sample Name:	**S-38443-011918-JC-055**	**S-38443-011918-JC-054**	**S-38443-053118-JC-115**	**S-38443-053018-JC-106**
	Sample Date:	**01/19/2018**	**01/19/2018**	**05/31/2018**	**05/30/2018**
	Depth:	**8-10 ft BGS**	**8-10 ft BGS**	**6-8 ft BGS**	**7-9 ft BGS**
Parameters	**Unit**				
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/kg	0.21 UJ	0.24 UJ	0.74 U	0.75 U
1,1,2,2-Tetrachloroethane	µg/kg	0.24 U	0.27 U	1.3 U	1.3 U
1,1,2-Trichloroethane	µg/kg	0.35 U	0.41 U	1.0 U	1.0 U
1,1-Dichloroethane	µg/kg	0.30 U	0.35 U	0.63 U	0.63 U
1,1-Dichloroethene	µg/kg	0.49 U	0.57 U	0.82 U	0.82 U
1,2,4-Trichlorobenzene	µg/kg	0.22 U	0.25 U	0.52 U	0.52 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	0.62 U	0.71 U	3.3 U	3.3 U
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	0.32 U	0.37 U	0.70 U	0.70 U
1,2-Dichlorobenzene	µg/kg	0.20 U	0.23 U	1.0 U	1.0 U
1,2-Dichloroethane	µg/kg	0.26 U	0.30 U	0.70 U	0.71 U
1,2-Dichloropropane	µg/kg	0.28 U	0.33 U	0.77 U	0.78 U
1,3-Dichlorobenzene	µg/kg	0.26 U	0.30 U	0.74 U	0.75 U
1,4-Dichlorobenzene	µg/kg	0.32 U	0.37 U	0.80 U	0.81 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	1.4 J	3.3 J	8.6 J	24
2-Hexanone	µg/kg	0.52 U	0.61 U	3.7 U	3.7 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	0.81 U	0.93 U	3.4 U	3.4 U
Acetone	µg/kg	8.9 U	11 U	34	110 J
Benzene	µg/kg	0.29 U	0.34 U	0.63 U	0.64 U
Bromodichloromethane	µg/kg	0.30 U	0.35 U	0.62 U	0.62 U
Bromoform	µg/kg	0.36 U	0.42 U	2.2 U	2.2 U
Bromomethane (Methyl bromide)	µg/kg	0.53 U	0.62 U	0.90 U	0.90 U
Carbon disulfide	µg/kg	0.19 U	0.22 U	2.8 J	1.1 U
Carbon tetrachloride	µg/kg	0.23 U	0.26 U	3.0 U	3.0 U
Chlorobenzene	µg/kg	0.30 U	0.35 U	0.83 U	0.84 U
Chloroethane	µg/kg	0.34 U	0.40 U	1.1 U	1.1 U
Chloroform (Trichloromethane)	µg/kg	0.21 U	0.24 U	0.71 U	0.72 U
Chloromethane (Methyl chloride)	µg/kg	0.34 U	0.40 U	0.95 U	0.95 U
cis-1,2-Dichloroethene	µg/kg	0.25 U	0.29 U	0.59 U	0.59 U
cis-1,3-Dichloropropene	µg/kg	0.24 U	0.27 U	1.3 U	1.3 U
Cyclohexane	µg/kg	0.19 U	0.22 U	1.2 U	1.3 U
Dibromochloromethane	µg/kg	0.27 U	0.31 U	2.5 U	2.5 U
Dichlorodifluoromethane (CFC-12)	µg/kg	0.32 U	0.37 U	0.86 U	0.86 U
Ethylbenzene	µg/kg	0.24 U	0.28 U	0.95 U	0.96 U
Isopropyl benzene	µg/kg	0.18 U	0.21 U	0.75 U	0.76 U
Methyl acetate	µg/kg	1.1 U	1.2 U	3.1 U	3.1 U
Methyl cyclohexane	µg/kg	0.21 U	0.24 U	1.1 U	1.1 U
Methyl tert butyl ether (MTBE)	µg/kg	0.24 U	0.28 U	0.74 U	0.75 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH120-18**	**BH121-18**	**BH122-18**	**BH125-18**
	Sample Name:	**S-38443-011918-JC-055**	**S-38443-011918-JC-054**	**S-38443-053118-JC-115**	**S-38443-053018-JC-106**
	Sample Date:	**01/19/2018**	**01/19/2018**	**05/31/2018**	**05/30/2018**
	Depth:	**8-10 ft BGS**	**8-10 ft BGS**	**6-8 ft BGS**	**7-9 ft BGS**
Parameters	**Unit**				
Volatile Organic Compounds					
Methylene chloride	µg/kg	5.3 U	5.5 U	11 U	11 U
Styrene	µg/kg	0.24 U	0.28 U	1.1 U	1.1 U
Tetrachloroethene	µg/kg	0.33 U	0.39 U	0.66 U	0.67 U
Toluene	µg/kg	0.31 U	0.36 U	0.70 U	0.71 U
trans-1,2-Dichloroethene	µg/kg	0.34 U	0.40 U	0.42 U	0.42 U
trans-1,3-Dichloropropene	µg/kg	0.19 U	0.22 U	0.94 U	0.94 U
Trichloroethene	µg/kg	0.37 U	0.43 U	0.57 U	0.58 U
Trichlorofluoromethane (CFC-11)	µg/kg	0.22 U	0.25 U	0.98 U	0.98 U
Trifluorotrichloroethane (CFC-113)	µg/kg	0.44 U	0.51 U	1.2 U	1.2 U
Vinyl chloride	µg/kg	0.25 U	0.29 U	0.76 U	0.76 U
Xylenes (total)	µg/kg	0.36 U	0.42 U	1.4 U	1.4 U
Semivolatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	11 U	11 U	11 U	11 U
2,4,5-Trichlorophenol	µg/kg	29 U	30 U	75 U	78 U
2,4,6-Trichlorophenol	µg/kg	10 U	11 U	70 U	73 U
2,4-Dichlorophenol	µg/kg	24 U	24 U	48 U	50 U
2,4-Dimethylphenol	µg/kg	24 U	24 U	44 U	45 U
2,4-Dinitrophenol	µg/kg	25 U	25 U	150 U	160 U
2,4-Dinitrotoluene	µg/kg	20 U	20 U	67 U	70 U
2,6-Dinitrotoluene	µg/kg	25 U	25 U	61 U	64 U
2-Chloronaphthalene	µg/kg	0.53 U	0.54 U	15 U	16 U
2-Chlorophenol	µg/kg	9.7 U	9.8 U	11 U	11 U
2-Methylnaphthalene	µg/kg	17	15	27	78
2-Methylphenol	µg/kg	13 U	13 U	34 U	35 U
2-Nitroaniline	µg/kg	11 U	11 U	44 U	45 U
2-Nitrophenol	µg/kg	9.8 U	10 U	14 U	15 U
3&4-Methylphenol	µg/kg	24 U	24 U	32 U	33 U
3,3'-Dichlorobenzidine	µg/kg	21 U	22 U	47 U	49 U
3-Nitroaniline	µg/kg	19 U	19 U	53 U	56 U
4,6-Dinitro-2-methylphenol	µg/kg	11 U	11 U	87 U	91 U
4-Bromophenyl phenyl ether	µg/kg	15 U	16 U	15 U	16 U
4-Chloro-3-methylphenol	µg/kg	25 U	25 U	49 U	51 U
4-Chloroaniline	µg/kg	20 U	20 U	33 U	34 U
4-Chlorophenyl phenyl ether	µg/kg	15 U	16 U	15 U	16 U
4-Nitroaniline	µg/kg	31 U	31 U	65 U	68 U
4-Nitrophenol	µg/kg	20 U	20 U	100 U	110 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH120-18**	**BH121-18**	**BH122-18**	**BH125-18**
	Sample Name:	**S-38443-011918-JC-055**	**S-38443-011918-JC-054**	**S-38443-053118-JC-115**	**S-38443-053018-JC-106**
	Sample Date:	**01/19/2018**	**01/19/2018**	**05/31/2018**	**05/30/2018**
	Depth:	**8-10 ft BGS**	**8-10 ft BGS**	**6-8 ft BGS**	**7-9 ft BGS**
Parameters	**Unit**				
Semivolatile Organic Compounds					
Acenaphthene	µg/kg	0.89 U	48	0.83 U	35
Acenaphthylene	µg/kg	0.41 U	4.4 J	9.0	26
Acetophenone	µg/kg	11 U	11 U	41 J	12 U
Anthracene	µg/kg	5.3 J	170	8.3	89
Atrazine	µg/kg	11 U	11 U	39 U	41 U
Benzaldehyde	µg/kg	14 U	14 U	41 J	26 U
Benzo(a)anthracene	µg/kg	34	520	26	390
Benzo(a)pyrene	µg/kg	47	350	40	370
Benzo(b)fluoranthene	µg/kg	84	540	65	550
Benzo(g,h,i)perylene	µg/kg	48	160	36	180
Benzo(k)fluoranthene	µg/kg	27	260	24	190
Biphenyl (1,1-Biphenyl)	µg/kg	4.1 U	6.0 J	25 J	19 U
bis(2-Chloroethoxy)methane	µg/kg	26 U	26 U	13 U	14 U
bis(2-Chloroethyl)ether	µg/kg	2.4 U	2.4 U	13 U	14 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	22 U	57 J	180	67 J
Butyl benzylphthalate (BBP)	µg/kg	12 U	12 U	24 U	25 U
Caprolactam	µg/kg	44 U	44 U	82 U	85 U
Carbazole	µg/kg	32 U	60	21 U	50 J
Chrysene	µg/kg	49	480	35	420
Di-n-butylphthalate (DBP)	µg/kg	18 U	18 U	30 J	25 U
Di-n-octyl phthalate (DnOP)	µg/kg	9.3 U	9.5 U	30 U	32 U
Dibenz(a,h)anthracene	µg/kg	14	54	0.72 U	68
Dibenzofuran	µg/kg	0.78 U	26 J	14 U	36 J
Diethyl phthalate	µg/kg	19 U	19 U	34 U	35 U
Dimethyl phthalate	µg/kg	20 U	20 U	15 U	16 U
Fluoranthene	µg/kg	57	1200	59	720
Fluorene	µg/kg	0.62 U	45	0.58 U	35
Hexachlorobenzene	µg/kg	2.5 U	2.5 U	2.3 U	36
Hexachlorobutadiene	µg/kg	6.6 U	6.7 U	13 U	14 U
Hexachlorocyclopentadiene	µg/kg	9.5 U	9.7 U	67 U	70 U
Hexachloroethane	µg/kg	11 U	11 U	9.8 U	10 U
Indeno(1,2,3-cd)pyrene	µg/kg	38	160	28	190
Isophorone	µg/kg	15 U	16 U	13 U	14 U
N-Nitrosodi-n-propylamine	µg/kg	7.4 U	7.6 U	12 U	12 U
N-Nitrosodiphenylamine	µg/kg	25 U	25 U	13 U	14 U
Naphthalene	µg/kg	11	20	120	66
Nitrobenzene	µg/kg	2.6 U	2.6 U	14 U	15 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH120-18**	**BH121-18**	**BH122-18**	**BH125-18**
	Sample Name:	**S-38443-011918-JC-055**	**S-38443-011918-JC-054**	**S-38443-053118-JC-115**	**S-38443-053018-JC-106**
	Sample Date:	**01/19/2018**	**01/19/2018**	**05/31/2018**	**05/30/2018**
	Depth:	**8-10 ft BGS**	**8-10 ft BGS**	**6-8 ft BGS**	**7-9 ft BGS**
Parameters	**Unit**				
Semivolatile Organic Compounds					
Pentachlorophenol	µg/kg	11 U	11 U	63 U	66 U
Phenanthrene	µg/kg	41	530	49	430
Phenol	µg/kg	8.6 U	8.8 U	8.7 U	9.1 U
Pyrene	µg/kg	51	910	58	540
PCBs					
Aroclor-1016 (PCB-1016)	µg/kg	26 U	26 U	25 U	26 U
Aroclor-1221 (PCB-1221)	µg/kg	28 U	28 U	27 U	28 U
Aroclor-1232 (PCB-1232)	µg/kg	27 U	27 U	26 U	27 U
Aroclor-1242 (PCB-1242)	µg/kg	22 U	22 U	21 U	22 U
Aroclor-1248 (PCB-1248)	µg/kg	28 U	28 U	74	28 U
Aroclor-1254 (PCB-1254)	µg/kg	50 J	27 U	26 U	27 U
Aroclor-1260 (PCB-1260)	µg/kg	26 U	26 U	25 U	26 U
Pesticides					
4,4'-DDD	µg/kg	4.0 U	4.0 U	1.7 U	1.6 U
4,4'-DDE	µg/kg	1.4 U	1.4 U	2.5 J	1.7 U
4,4'-DDT	µg/kg	1.7 U	1.7 U	1.3 U	3.1 J
Aldrin	µg/kg	2.9 U	2.9 U	0.88 U	0.86 U
alpha-BHC	µg/kg	1.9 U	1.9 U	1.0 U	1.0 U
alpha-Chlordane	µg/kg	4.6 U	4.6 U	2.3 J	1.7 U
beta-BHC	µg/kg	4.7 U	4.7 U	2.0 U	1.9 NJ
delta-BHC	µg/kg	1.6 U	1.6 U	1.9 U	1.9 U
Dieldrin	µg/kg	1.1 U	1.1 U	1.3 U	1.2 U
Endosulfan I	µg/kg	1.6 U	1.6 U	1.4 U	1.3 U
Endosulfan II	µg/kg	2.2 U	2.2 U	1.7 U	1.6 U
Endosulfan sulfate	µg/kg	1.4 U	1.4 U	1.5 U	1.4 U
Endrin	µg/kg	1.7 U	1.7 U	2.2 U	2.1 U
Endrin aldehyde	µg/kg	2.2 U	2.2 U	1.5 U	1.5 U
Endrin ketone	µg/kg	1.3 U	1.3 U	1.0 U	0.99 U
gamma-BHC (lindane)	µg/kg	3.5 U	3.5 U	2.0 U	2.0 U
gamma-Chlordane	µg/kg	1.8 U	1.8 U	1.4 U	1.4 U
Heptachlor	µg/kg	0.94 U	0.94 U	1.8 U	1.8 U
Heptachlor epoxide	µg/kg	2.9 U	2.9 U	2.1 J	1.6 U
Methoxychlor	µg/kg	1.4 U	1.8 NJ	7.5 U	7.3 UJ
Toxaphene	µg/kg	44 U	45 U	28 U	28 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH120-18**	**BH121-18**	**BH122-18**	**BH125-18**
	Sample Name:	**S-38443-011918-JC-055**	**S-38443-011918-JC-054**	**S-38443-053118-JC-115**	**S-38443-053018-JC-106**
	Sample Date:	**01/19/2018**	**01/19/2018**	**05/31/2018**	**05/30/2018**
	Depth:	**8-10 ft BGS**	**8-10 ft BGS**	**6-8 ft BGS**	**7-9 ft BGS**
Parameters	**Unit**				
Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs)					
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	--	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	--	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--	--
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--	--
Total heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--	--
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--	--
Total hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--	--
Total pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--	--
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--	--
Total tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH120-18**	**BH121-18**	**BH122-18**	**BH125-18**
	Sample Name:	**S-38443-011918-JC-055**	**S-38443-011918-JC-054**	**S-38443-053118-JC-115**	**S-38443-053018-JC-106**
	Sample Date:	**01/19/2018**	**01/19/2018**	**05/31/2018**	**05/30/2018**
	Depth:	**8-10 ft BGS**	**8-10 ft BGS**	**6-8 ft BGS**	**7-9 ft BGS**
Parameters	**Unit**				
Metals					
Aluminum	mg/kg	9300	6500	3800	9300
Antimony	mg/kg	0.31 J	3.0	0.49	5.4 J
Arsenic	mg/kg	12	16	5.4	19
Barium	mg/kg	100	280	110	1000
Beryllium	mg/kg	0.55	2.3	0.19	0.79
Cadmium	mg/kg	0.38	2.6	0.45	0.72
Calcium	mg/kg	46000	94000	67000	47000
Chromium	mg/kg	14	89	77	38
Chromium III (trivalent)	mg/kg	14	89	77	38
Chromium VI (hexavalent)	mg/kg	1.4 U	1.4 U	0.27 U	0.28 U
Cobalt	mg/kg	8.4	9.8	5.2	7.9
Copper	mg/kg	18	4700	240	120
Iron	mg/kg	17000	59000	13000	21000
Lead	mg/kg	23	680	130	140
Lead - coarse fraction	mg/kg	--	--	--	--
Lead - fine fraction	mg/kg	--	--	--	--
Lead - total (calculated by fine/coarse fraction)	mg/kg	--	--	--	--
Magnesium	mg/kg	25000	29000	44000	21000
Manganese	mg/kg	810	700	330	690
Mercury	mg/kg	0.027 J	0.13	0.024 J	0.086 J
Nickel	mg/kg	15	38	470	27
Potassium	mg/kg	1100	740	450	1100
Selenium	mg/kg	0.62 J	0.62 J	0.28 J	0.82 J
Silver	mg/kg	0.055 J	0.64	0.28	0.14 J
Sodium	mg/kg	78 J	240	150 J	150 J
Thallium	mg/kg	0.21	0.14 J	0.12 J	0.25
Vanadium	mg/kg	23	18	10	27
Zinc	mg/kg	66	2000	210	240

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH120-18**	**BH121-18**	**BH122-18**	**BH125-18**
	Sample Name:	**S-38443-011918-JC-055**	**S-38443-011918-JC-054**	**S-38443-053118-JC-115**	**S-38443-053018-JC-106**
	Sample Date:	**01/19/2018**	**01/19/2018**	**05/31/2018**	**05/30/2018**
	Depth:	**8-10 ft BGS**	**8-10 ft BGS**	**6-8 ft BGS**	**7-9 ft BGS**
Parameters	**Unit**				
General Chemistry					
Cyanide (total)	mg/kg	0.088 U	7.1	0.25 J	0.19 U

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
NJ - Tentatively identified compound, estimated concentration
PCBs - Polychlorinated Biphenyls
R - Rejected
-- - Not applicable

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH126-18**	**BH127-18**	**BH128-18**	**BH129-18**
	Sample Name:	**S-38443-053018-JC-101**	**S-38443-053018-JC-110**	**S-38443-053018-JC-108**	**S-38443-053018-JC-103**
	Sample Date:	**05/30/2018**	**05/30/2018**	**05/30/2018**	**05/30/2018**
	Depth:	**10-12 ft BGS**	**7-9 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**
Parameters	**Unit**				
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/kg	0.75 U	0.78 U	1.2 UJ	0.71 U
1,1,2,2-Tetrachloroethane	µg/kg	1.3 U	1.4 U	2.1 UJ	1.2 U
1,1,2-Trichloroethane	µg/kg	1.0 U	1.1 U	1.6 UJ	0.99 U
1,1-Dichloroethane	µg/kg	0.63 U	0.66 U	1.0 UJ	0.60 U
1,1-Dichloroethene	µg/kg	0.82 U	0.86 U	1.3 UJ	0.79 U
1,2,4-Trichlorobenzene	µg/kg	0.52 U	0.54 U	0.83 UJ	0.50 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	3.3 U	3.4 U	5.2 UJ	3.1 U
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	0.70 U	0.73 U	1.1 UJ	0.67 U
1,2-Dichlorobenzene	µg/kg	1.0 U	1.1 U	1.6 UJ	0.97 U
1,2-Dichloroethane	µg/kg	0.70 U	0.73 U	1.1 UJ	0.67 U
1,2-Dichloropropane	µg/kg	0.77 U	0.81 U	1.2 UJ	0.74 U
1,3-Dichlorobenzene	µg/kg	0.74 U	0.77 U	1.2 UJ	0.71 U
1,4-Dichlorobenzene	µg/kg	0.80 U	0.84 U	1.3 UJ	0.77 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	3.2 J	3.4 U	16 J	5.7 J
2-Hexanone	µg/kg	3.7 U	3.9 U	5.9 UJ	3.6 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	3.4 U	3.5 U	5.4 UJ	3.2 U
Acetone	µg/kg	19 J	20 U	140 J	31 J
Benzene	µg/kg	0.64 U	0.66 U	1.0 UJ	0.61 U
Bromodichloromethane	µg/kg	0.62 U	0.64 U	0.98 UJ	0.59 U
Bromoform	µg/kg	2.2 U	2.3 U	3.5 UJ	2.1 U
Bromomethane (Methyl bromide)	µg/kg	0.90 U	0.94 U	1.4 UJ	0.86 U
Carbon disulfide	µg/kg	1.1 U	1.1 U	1.7 UJ	1.0 U
Carbon tetrachloride	µg/kg	3.0 U	3.1 U	4.7 UJ	2.8 U
Chlorobenzene	µg/kg	0.83 U	0.87 U	1.3 UJ	0.80 U
Chloroethane	µg/kg	1.1 U	1.2 U	1.8 UJ	1.1 U
Chloroform (Trichloromethane)	µg/kg	0.72 U	0.75 U	1.1 UJ	0.69 U
Chloromethane (Methyl chloride)	µg/kg	0.95 U	0.99 U	1.5 UJ	0.91 U
cis-1,2-Dichloroethene	µg/kg	0.59 U	5.0	0.94 UJ	0.57 U
cis-1,3-Dichloropropene	µg/kg	1.3 U	1.4 U	2.1 UJ	1.3 U
Cyclohexane	µg/kg	1.3 U	1.3 U	2.0 UJ	1.2 U
Dibromochloromethane	µg/kg	2.5 U	2.6 U	4.0 UJ	2.4 U
Dichlorodifluoromethane (CFC-12)	µg/kg	0.86 U	0.89 U	1.4 UJ	0.82 U
Ethylbenzene	µg/kg	0.95 U	0.99 U	1.5 UJ	0.91 U
Isopropyl benzene	µg/kg	0.76 U	0.79 U	1.2 UJ	0.73 U
Methyl acetate	µg/kg	3.1 U	3.2 U	4.9 UJ	3.0 U
Methyl cyclohexane	µg/kg	1.1 U	1.2 U	1.8 UJ	1.1 U
Methyl tert butyl ether (MTBE)	µg/kg	0.75 U	0.78 U	1.2 UJ	0.71 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH126-18**	**BH127-18**	**BH128-18**	**BH129-18**
	Sample Name:	**S-38443-053018-JC-101**	**S-38443-053018-JC-110**	**S-38443-053018-JC-108**	**S-38443-053018-JC-103**
	Sample Date:	**05/30/2018**	**05/30/2018**	**05/30/2018**	**05/30/2018**
	Depth:	**10-12 ft BGS**	**7-9 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**
Parameters	**Unit**				
Volatile Organic Compounds					
Methylene chloride	µg/kg	11 U	11 U	17 UJ	10 U
Styrene	µg/kg	1.1 U	1.1 U	1.7 UJ	1.0 U
Tetrachloroethene	µg/kg	0.66 U	0.69 U	1.1 UJ	0.64 U
Toluene	µg/kg	0.70 U	0.73 U	1.4 J	0.67 U
trans-1,2-Dichloroethene	µg/kg	0.42 U	0.44 U	0.67 UJ	0.41 U
trans-1,3-Dichloropropene	µg/kg	0.94 U	0.98 U	1.5 UJ	0.90 U
Trichloroethene	µg/kg	0.58 U	0.60 U	0.91 UJ	0.55 U
Trichlorofluoromethane (CFC-11)	µg/kg	0.98 U	1.0 U	1.6 UJ	0.94 U
Trifluorotrichloroethane (CFC-113)	µg/kg	1.2 U	1.2 U	1.8 UJ	1.1 U
Vinyl chloride	µg/kg	0.76 U	0.79 U	1.2 UJ	0.73 U
Xylenes (total)	µg/kg	1.4 U	1.5 U	2.3 UJ	1.4 U
Semivolatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	11 U	12 U	38 U	52 U
2,4,5-Trichlorophenol	µg/kg	76 U	81 U	260 U	360 U
2,4,6-Trichlorophenol	µg/kg	70 U	76 U	240 U	330 U
2,4-Dichlorophenol	µg/kg	48 U	52 U	170 U	230 U
2,4-Dimethylphenol	µg/kg	44 U	47 U	150 U	210 U
2,4-Dinitrophenol	µg/kg	160 U	170 U	540 U	740 U
2,4-Dinitrotoluene	µg/kg	68 U	73 U	230 U	320 U
2,6-Dinitrotoluene	µg/kg	62 U	66 U	210 U	290 U
2-Chloronaphthalene	µg/kg	15 U	17 U	53 U	73 U
2-Chlorophenol	µg/kg	11 U	12 U	38 U	52 U
2-Methylnaphthalene	µg/kg	110	0.59 U	130	520
2-Methylphenol	µg/kg	34 U	37 U	120 U	160 U
2-Nitroaniline	µg/kg	44 U	47 U	150 U	210 U
2-Nitrophenol	µg/kg	14 U	15 U	49 U	68 U
3&4-Methylphenol	µg/kg	32 U	34 U	110 U	150 U
3,3'-Dichlorobenzidine	µg/kg	47 U	51 U	160 U	220 U
3-Nitroaniline	µg/kg	54 U	58 U	190 U	260 U
4,6-Dinitro-2-methylphenol	µg/kg	88 U	94 U	300 U	420 U
4-Bromophenyl phenyl ether	µg/kg	15 U	17 U	53 U	73 U
4-Chloro-3-methylphenol	µg/kg	49 U	53 U	170 U	230 U
4-Chloroaniline	µg/kg	33 U	35 U	110 U	160 U
4-Chlorophenyl phenyl ether	µg/kg	15 U	17 U	53 U	73 U
4-Nitroaniline	µg/kg	66 U	71 U	230 U	310 U
4-Nitrophenol	µg/kg	100 U	110 U	360 U	490 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH126-18**	**BH127-18**	**BH128-18**	**BH129-18**
	Sample Name:	**S-38443-053018-JC-101**	**S-38443-053018-JC-110**	**S-38443-053018-JC-108**	**S-38443-053018-JC-103**
	Sample Date:	**05/30/2018**	**05/30/2018**	**05/30/2018**	**05/30/2018**
	Depth:	**10-12 ft BGS**	**7-9 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**
Parameters	**Unit**				
Semivolatile Organic Compounds					
Acenaphthene	µg/kg	89	0.90 U	130	84
Acenaphthylene	µg/kg	47	0.41 U	92	38
Acetophenone	µg/kg	12 U	13 U	42 U	57 U
Anthracene	µg/kg	190	0.92 U	340	160
Atrazine	µg/kg	40 U	43 U	140 U	190 U
Benzaldehyde	µg/kg	32 J	27 U	87 U	120 U
Benzo(a)anthracene	µg/kg	760	8.0	750	190
Benzo(a)pyrene	µg/kg	790	10	840	200
Benzo(b)fluoranthene	µg/kg	1200	13	950	230
Benzo(g,h,i)perylene	µg/kg	330	6.3 J	480	160
Benzo(k)fluoranthene	µg/kg	390	0.80 U	470	82
Biphenyl (1,1-Biphenyl)	µg/kg	22 J	20 U	64 U	89 U
bis(2-Chloroethoxy)methane	µg/kg	13 U	14 U	45 U	63 U
bis(2-Chloroethyl)ether	µg/kg	13 U	14 U	45 U	63 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	56 U	60 U	190 U	270 U
Butyl benzylphthalate (BBP)	µg/kg	24 U	26 U	83 U	110 U
Caprolactam	µg/kg	82 U	89 U	280 U	390 U
Carbazole	µg/kg	98	22 U	230	99 U
Chrysene	µg/kg	830	8.3	780	240
Di-n-butylphthalate (DBP)	µg/kg	24 U	26 U	83 U	110 U
Di-n-octyl phthalate (DnOP)	µg/kg	31 U	33 U	110 U	150 U
Dibenz(a,h)anthracene	µg/kg	87	0.78 U	120	3.4 U
Dibenzofuran	µg/kg	63	15 U	150 J	68 U
Diethyl phthalate	µg/kg	34 U	37 U	120 U	160 U
Dimethyl phthalate	µg/kg	15 U	17 U	53 U	73 U
Fluoranthene	µg/kg	1700	12	2300	560
Fluorene	µg/kg	74	0.63 U	210	100
Hexachlorobenzene	µg/kg	2.3 U	2.5 U	7.9 U	11 U
Hexachlorobutadiene	µg/kg	13 U	14 U	45 U	63 U
Hexachlorocyclopentadiene	µg/kg	68 U	73 U	230 U	320 U
Hexachloroethane	µg/kg	9.9 U	11 U	34 U	47 U
Indeno(1,2,3-cd)pyrene	µg/kg	290	5.4 J	450	92
Isophorone	µg/kg	13 U	14 U	110 J	63 U
N-Nitrosodi-n-propylamine	µg/kg	12 U	13 U	42 U	57 U
N-Nitrosodiphenylamine	µg/kg	13 U	14 U	45 U	63 U
Naphthalene	µg/kg	300	0.97 U	200	140
Nitrobenzene	µg/kg	14 U	15 U	49 U	68 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH126-18**	**BH127-18**	**BH128-18**	**BH129-18**
	Sample Name:	**S-38443-053018-JC-101**	**S-38443-053018-JC-110**	**S-38443-053018-JC-108**	**S-38443-053018-JC-103**
	Sample Date:	**05/30/2018**	**05/30/2018**	**05/30/2018**	**05/30/2018**
	Depth:	**10-12 ft BGS**	**7-9 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**
Parameters	**Unit**				
Semivolatile Organic Compounds					
Pentachlorophenol	µg/kg	860	68 U	220 U	300 U
Phenanthrene	µg/kg	910	6.3 J	1500	1300
Phenol	µg/kg	8.8 U	9.4 U	30 U	42 U
Pyrene	µg/kg	1300	10	1600	930
PCBs					
Aroclor-1016 (PCB-1016)	µg/kg	24 U	26 U	34 U	23 U
Aroclor-1221 (PCB-1221)	µg/kg	26 U	28 U	37 U	25 U
Aroclor-1232 (PCB-1232)	µg/kg	25 U	27 U	36 U	24 U
Aroclor-1242 (PCB-1242)	µg/kg	20 U	22 U	30 U	20 U
Aroclor-1248 (PCB-1248)	µg/kg	26 U	28 U	37 U	25 U
Aroclor-1254 (PCB-1254)	µg/kg	25 U	27 U	36 U	54
Aroclor-1260 (PCB-1260)	µg/kg	24 U	26 U	34 U	23 U
Pesticides					
4,4'-DDD	µg/kg	34 U	1.8 U	2.2 U	32 U
4,4'-DDE	µg/kg	34 U	1.8 U	2.3 U	33 U
4,4'-DDT	µg/kg	26 U	1.3 U	1.7 U	24 U
Aldrin	µg/kg	17 U	0.92 U	1.2 U	17 U
alpha-BHC	µg/kg	21 U	1.1 U	1.4 U	20 U
alpha-Chlordane	µg/kg	34 U	1.8 U	2.3 U	32 U
beta-BHC	µg/kg	39 U	4.5 J	2.6 U	37 U
delta-BHC	µg/kg	38 U	2.0 U	2.5 U	37 U
Dieldrin	µg/kg	25 U	1.3 U	1.7 U	24 U
Endosulfan I	µg/kg	27 U	1.4 U	1.8 U	26 U
Endosulfan II	µg/kg	34 U	1.8 U	2.2 U	32 U
Endosulfan sulfate	µg/kg	29 U	1.5 U	1.9 U	28 U
Endrin	µg/kg	43 U	2.3 U	2.9 U	41 U
Endrin aldehyde	µg/kg	30 U	1.6 U	2.0 U	28 U
Endrin ketone	µg/kg	20 U	1.1 U	1.3 U	19 U
gamma-BHC (lindane)	µg/kg	41 U	2.1 U	2.7 U	39 U
gamma-Chlordane	µg/kg	28 U	1.5 U	1.8 U	27 U
Heptachlor	µg/kg	36 U	1.9 U	2.4 U	34 U
Heptachlor epoxide	µg/kg	33 U	1.7 U	2.2 U	31 U
Methoxychlor	µg/kg	150 UJ	7.8 UJ	9.8 UJ	140 UJ
Toxaphene	µg/kg	570 U	30 U	38 U	540 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH126-18**	**BH127-18**	**BH128-18**	**BH129-18**
	Sample Name:	**S-38443-053018-JC-101**	**S-38443-053018-JC-110**	**S-38443-053018-JC-108**	**S-38443-053018-JC-103**
	Sample Date:	**05/30/2018**	**05/30/2018**	**05/30/2018**	**05/30/2018**
	Depth:	**10-12 ft BGS**	**7-9 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**
Parameters	**Unit**				
Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs)					
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	--	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	--	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--	--
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--	--
Total heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--	--
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--	--
Total hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--	--
Total pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--	--
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--	--
Total tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH126-18**	**BH127-18**	**BH128-18**	**BH129-18**
	Sample Name:	**S-38443-053018-JC-101**	**S-38443-053018-JC-110**	**S-38443-053018-JC-108**	**S-38443-053018-JC-103**
	Sample Date:	**05/30/2018**	**05/30/2018**	**05/30/2018**	**05/30/2018**
	Depth:	**10-12 ft BGS**	**7-9 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**
Parameters	**Unit**				
Metals					
Aluminum	mg/kg	5800	12000	4000	3400
Antimony	mg/kg	0.75 J	0.20 J	0.28 J	0.16 J
Arsenic	mg/kg	9.2	11	4.2	5.0
Barium	mg/kg	150	97	48	45
Beryllium	mg/kg	0.58	0.66	0.46	0.23
Cadmium	mg/kg	0.70	0.33	0.093 J	0.23
Calcium	mg/kg	77000	10000	320000	120000
Chromium	mg/kg	11	18	5.8	7.0
Chromium III (trivalent)	mg/kg	9.9	18	5.3	6.0
Chromium VI (hexavalent)	mg/kg	0.91	0.57 U	0.43 J	0.96
Cobalt	mg/kg	4.3	8.9	2.4	3.0
Copper	mg/kg	41	23	9.9	15
Iron	mg/kg	9800	23000	4300	7600
Lead	mg/kg	270	17	21	35
Lead - coarse fraction	mg/kg	--	--	--	--
Lead - fine fraction	mg/kg	--	--	--	--
Lead - total (calculated by fine/coarse fraction)	mg/kg	--	--	--	--
Magnesium	mg/kg	27000	6500	13000	51000
Manganese	mg/kg	250	610	110	220
Mercury	mg/kg	0.44	0.049 J	0.075 J	0.045 J
Nickel	mg/kg	11	20	13	9.3
Potassium	mg/kg	640	990	970	530
Selenium	mg/kg	0.60 J	0.53 J	0.36 J	0.24 J
Silver	mg/kg	0.16 J	0.090 J	0.031 J	0.040 J
Sodium	mg/kg	290	78 J	240 J	350
Thallium	mg/kg	0.18 J	0.20	0.11 J	0.10 J
Vanadium	mg/kg	16	30	26	25
Zinc	mg/kg	240	67	33	46

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH126-18**	**BH127-18**	**BH128-18**	**BH129-18**
	Sample Name:	**S-38443-053018-JC-101**	**S-38443-053018-JC-110**	**S-38443-053018-JC-108**	**S-38443-053018-JC-103**
	Sample Date:	**05/30/2018**	**05/30/2018**	**05/30/2018**	**05/30/2018**
	Depth:	**10-12 ft BGS**	**7-9 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**
Parameters	**Unit**				
General Chemistry					
Cyanide (total)	mg/kg	0.20 U	0.23 U	0.83	0.19 U

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
NJ - Tentatively identified compound, estimated concentration
PCBs - Polychlorinated Biphenyls
R - Rejected
-- - Not applicable

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH130-18**	**BH132-18**	**BH133-18**	**BH136-18**
	Sample Name:	**S-38443-053018-JC-112**	**S-38443-053118-JC-119**	**S-38443-053118-JC-117**	**S-38443-010818-JC-032**
	Sample Date:	**05/30/2018**	**05/31/2018**	**05/31/2018**	**01/08/2018**
	Depth:	**9.5-11.5 ft BGS**	**6.5-8.5 ft BGS**	**7-9 ft BGS**	**1-3 ft BGS**
Parameters	**Unit**				
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/kg	0.83 U	2.5 UJ	0.70 U	29 U
1,1,2,2-Tetrachloroethane	µg/kg	1.4 U	4.4 UJ	1.2 U	25 U
1,1,2-Trichloroethane	µg/kg	1.1 U	3.5 UJ	0.97 U	24 U
1,1-Dichloroethane	µg/kg	0.70 U	2.1 UJ	0.59 U	32 U
1,1-Dichloroethene	µg/kg	0.91 U	2.8 UJ	0.77 U	37 U
1,2,4-Trichlorobenzene	µg/kg	0.58 U	1.8 UJ	0.49 U	27 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	3.6 U	11 UJ	3.1 U	50 U
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	0.78 U	2.4 UJ	0.66 U	24 U
1,2-Dichlorobenzene	µg/kg	1.1 U	3.4 UJ	0.95 U	19 U
1,2-Dichloroethane	µg/kg	0.78 U	2.4 UJ	0.66 U	31 U
1,2-Dichloropropane	µg/kg	0.86 U	2.6 UJ	0.73 U	31 U
1,3-Dichlorobenzene	µg/kg	0.82 U	2.5 UJ	0.70 U	39 U
1,4-Dichlorobenzene	µg/kg	0.89 U	2.7 UJ	0.75 U	28 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	3.6 U	38 J	3.0 U	52 U
2-Hexanone	µg/kg	4.1 U	13 UJ	3.5 U	89 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	3.7 U	11 UJ	3.2 U	41 U
Acetone	µg/kg	21 U	250 J	18 U	100 U
Benzene	µg/kg	0.70 U	2.2 UJ	0.60 U	37 J
Bromodichloromethane	µg/kg	0.68 U	2.1 UJ	0.58 U	19 U
Bromoform	µg/kg	2.4 U	7.4 UJ	2.0 U	24 U
Bromomethane (Methyl bromide)	µg/kg	1.0 U	3.1 UJ	0.84 U	29 U
Carbon disulfide	µg/kg	1.2 U	3.6 UJ	0.99 U	19 U
Carbon tetrachloride	µg/kg	3.3 U	10 UJ	2.8 U	28 U
Chlorobenzene	µg/kg	0.92 U	2.8 UJ	0.78 U	31 U
Chloroethane	µg/kg	1.2 U	3.8 UJ	1.0 U	29 U
Chloroform (Trichloromethane)	µg/kg	0.79 U	2.4 UJ	0.67 U	25 U
Chloromethane (Methyl chloride)	µg/kg	1.0 U	3.2 UJ	0.89 U	19 U
cis-1,2-Dichloroethene	µg/kg	0.66 U	2.0 UJ	0.56 U	4200
cis-1,3-Dichloropropene	µg/kg	1.4 U	4.4 UJ	1.2 U	24 U
Cyclohexane	µg/kg	1.4 U	4.8 J	1.2 U	43 J
Dibromochloromethane	µg/kg	2.8 U	8.6 UJ	2.4 U	35 U
Dichlorodifluoromethane (CFC-12)	µg/kg	0.95 U	2.9 UJ	0.80 U	23 U
Ethylbenzene	µg/kg	1.1 U	3.6 J	0.89 U	36 U
Isopropyl benzene	µg/kg	0.84 U	2.6 UJ	0.71 U	35 U
Methyl acetate	µg/kg	3.4 U	11 UJ	2.9 U	77 U
Methyl cyclohexane	µg/kg	1.2 U	6.7 J	1.0 U	770
Methyl tert butyl ether (MTBE)	µg/kg	0.83 U	2.5 UJ	0.70 U	27 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH130-18**	**BH132-18**	**BH133-18**	**BH136-18**
	Sample Name:	**S-38443-053018-JC-112**	**S-38443-053118-JC-119**	**S-38443-053118-JC-117**	**S-38443-010818-JC-032**
	Sample Date:	**05/30/2018**	**05/31/2018**	**05/31/2018**	**01/08/2018**
	Depth:	**9.5-11.5 ft BGS**	**6.5-8.5 ft BGS**	**7-9 ft BGS**	**1-3 ft BGS**
Parameters	**Unit**				
Volatile Organic Compounds					
Methylene chloride	µg/kg	12 U	37 UJ	10 U	67 U
Styrene	µg/kg	1.2 U	3.6 UJ	0.99 U	10 U
Tetrachloroethene	µg/kg	8.4	4.0 J	0.62 U	22 U
Toluene	µg/kg	0.78 U	8.9 J	0.66 U	200 J
trans-1,2-Dichloroethene	µg/kg	0.47 U	1.4 UJ	0.40 U	53 J
trans-1,3-Dichloropropene	µg/kg	1.0 U	3.2 UJ	0.88 U	15 U
Trichloroethene	µg/kg	0.64 U	2.0 UJ	0.54 U	96 J
Trichlorofluoromethane (CFC-11)	µg/kg	1.1 U	3.3 UJ	0.92 U	35 U
Trifluorotrichloroethane (CFC-113)	µg/kg	1.3 U	4.0 UJ	1.1 U	24 U
Vinyl chloride	µg/kg	0.84 U	2.6 UJ	0.71 U	89 J
Xylenes (total)	µg/kg	1.6 U	16 J	1.4 U	63 J
Semivolatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	12 U	22 UJ	11 U	100 U
2,4,5-Trichlorophenol	µg/kg	80 U	150 UJ	79 U	260 U
2,4,6-Trichlorophenol	µg/kg	74 U	140 UJ	73 U	94 U
2,4-Dichlorophenol	µg/kg	51 U	99 UJ	50 U	210 U
2,4-Dimethylphenol	µg/kg	46 U	90 UJ	46 U	210 U
2,4-Dinitrophenol	µg/kg	160 U	R	160 U	220 U
2,4-Dinitrotoluene	µg/kg	72 U	140 UJ	71 U	180 U
2,6-Dinitrotoluene	µg/kg	65 U	130 UJ	64 U	220 U
2-Chloronaphthalene	µg/kg	16 U	31 UJ	16 U	4.8 U
2-Chlorophenol	µg/kg	12 U	22 UJ	11 U	87 U
2-Methylnaphthalene	µg/kg	12	750 J	0.57 U	300
2-Methylphenol	µg/kg	36 U	70 UJ	35 U	120 U
2-Nitroaniline	µg/kg	46 U	90 UJ	46 U	96 U
2-Nitrophenol	µg/kg	15 U	29 UJ	15 U	88 U
3&4-Methylphenol	µg/kg	34 U	65 UJ	33 U	210 U
3,3'-Dichlorobenzidine	µg/kg	50 U	97 UJ	49 U	190 U
3-Nitroaniline	µg/kg	57 U	110 UJ	56 U	170 U
4,6-Dinitro-2-methylphenol	µg/kg	92 U	180 UJ	91 U	97 U
4-Bromophenyl phenyl ether	µg/kg	16 U	31 UJ	16 U	140 U
4-Chloro-3-methylphenol	µg/kg	52 U	100 UJ	51 U	220 U
4-Chloroaniline	µg/kg	35 U	67 UJ	34 U	180 U
4-Chlorophenyl phenyl ether	µg/kg	16 U	31 UJ	16 U	140 U
4-Nitroaniline	µg/kg	69 U	130 UJ	68 U	280 U
4-Nitrophenol	µg/kg	110 U	R	110 U	180 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH130-18**	**BH132-18**	**BH133-18**	**BH136-18**
	Sample Name:	**S-38443-053018-JC-112**	**S-38443-053118-JC-119**	**S-38443-053118-JC-117**	**S-38443-010818-JC-032**
	Sample Date:	**05/30/2018**	**05/31/2018**	**05/31/2018**	**01/08/2018**
	Depth:	**9.5-11.5 ft BGS**	**6.5-8.5 ft BGS**	**7-9 ft BGS**	**1-3 ft BGS**
Parameters	**Unit**				
Semivolatile Organic Compounds					
Acenaphthene	µg/kg	0.88 U	1.7 UJ	0.87 U	49 J
Acenaphthylene	µg/kg	4.5 J	0.79 UJ	0.40 U	3.7 U
Acetophenone	µg/kg	13 U	25 UJ	13 U	97 U
Anthracene	µg/kg	4.5 J	1.8 UJ	0.89 U	78
Atrazine	µg/kg	42 U	81 UJ	41 U	96 U
Benzaldehyde	µg/kg	27 U	52 UJ	26 U	130 U
Benzo(a)anthracene	µg/kg	24	41 J	0.72 U	280 J
Benzo(a)pyrene	µg/kg	27	27 J	5.1 J	370 J
Benzo(b)fluoranthene	µg/kg	41	43 J	8.5	720 J
Benzo(g,h,i)perylene	µg/kg	18	0.79 UJ	0.40 U	160 J
Benzo(k)fluoranthene	µg/kg	0.79 U	1.5 UJ	0.78 U	190 J
Biphenyl (1,1-Biphenyl)	µg/kg	20 U	130 J	19 U	81 J
bis(2-Chloroethoxy)methane	µg/kg	14 U	27 UJ	14 U	230 U
bis(2-Chloroethyl)ether	µg/kg	14 U	27 UJ	14 U	21 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	59 U	110 UJ	58 U	510 J
Butyl benzylphthalate (BBP)	µg/kg	25 U	49 UJ	25 U	110 U
Caprolactam	µg/kg	87 U	170 UJ	86 U	390 U
Carbazole	µg/kg	22 U	43 UJ	22 U	290 U
Chrysene	µg/kg	33	40 J	1.3 U	350 J
Di-n-butylphthalate (DBP)	µg/kg	25 U	49 UJ	25 U	160 U
Di-n-octyl phthalate (DnOP)	µg/kg	32 U	63 UJ	32 U	84 U
Dibenz(a,h)anthracene	µg/kg	0.76 U	1.5 UJ	0.75 U	7.0 U
Dibenzofuran	µg/kg	15 U	29 UJ	15 U	98 J
Diethyl phthalate	µg/kg	36 U	70 UJ	35 U	170 U
Dimethyl phthalate	µg/kg	16 U	31 UJ	16 U	180 U
Fluoranthene	µg/kg	50	72 J	9.8	640
Fluorene	µg/kg	0.61 U	1.2 UJ	0.60 U	95
Hexachlorobenzene	µg/kg	2.4 U	4.7 UJ	2.4 U	22 U
Hexachlorobutadiene	µg/kg	14 U	27 UJ	14 U	59 U
Hexachlorocyclopentadiene	µg/kg	72 U	140 UJ	71 U	86 U
Hexachloroethane	µg/kg	10 U	20 UJ	10 U	95 U
Indeno(1,2,3-cd)pyrene	µg/kg	17	21 J	0.40 U	190 J
Isophorone	µg/kg	14 U	27 UJ	14 U	140 U
N-Nitrosodi-n-propylamine	µg/kg	13 U	25 UJ	13 U	67 U
N-Nitrosodiphenylamine	µg/kg	14 U	27 UJ	14 U	220 U
Naphthalene	µg/kg	0.95 U	110 J	0.94 U	230
Nitrobenzene	µg/kg	15 U	29 UJ	15 U	23 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH130-18**	**BH132-18**	**BH133-18**	**BH136-18**
	Sample Name:	**S-38443-053018-JC-112**	**S-38443-053118-JC-119**	**S-38443-053118-JC-117**	**S-38443-010818-JC-032**
	Sample Date:	**05/30/2018**	**05/31/2018**	**05/31/2018**	**01/08/2018**
	Depth:	**9.5-11.5 ft BGS**	**6.5-8.5 ft BGS**	**7-9 ft BGS**	**1-3 ft BGS**
Parameters	**Unit**				
Semivolatile Organic Compounds					
Pentachlorophenol	µg/kg	67 U	130 UJ	66 U	96 U
Phenanthrene	µg/kg	23	210 J	6.4 J	570
Phenol	µg/kg	9.2 U	18 UJ	9.1 U	77 U
Pyrene	µg/kg	44	77 J	11	670
PCBs					
Aroclor-1016 (PCB-1016)	µg/kg	26 U	48 UJ	26 U	110 U
Aroclor-1221 (PCB-1221)	µg/kg	28 U	52 UJ	28 U	130 U
Aroclor-1232 (PCB-1232)	µg/kg	27 U	50 UJ	27 U	120 U
Aroclor-1242 (PCB-1242)	µg/kg	22 U	42 UJ	22 U	99 U
Aroclor-1248 (PCB-1248)	µg/kg	28 U	52 UJ	28 U	130 U
Aroclor-1254 (PCB-1254)	µg/kg	27 U	50 UJ	27 U	2000 J
Aroclor-1260 (PCB-1260)	µg/kg	26 U	48 UJ	26 U	110 U
Pesticides					
4,4'-DDD	µg/kg	1.6 U	3.5 UJ	1.7 U	69 U
4,4'-DDE	µg/kg	1.7 U	3.5 UJ	1.8 U	25 U
4,4'-DDT	µg/kg	1.3 J	2.7 UJ	1.3 U	29 U
Aldrin	µg/kg	0.86 U	1.8 UJ	0.90 U	50 U
alpha-BHC	µg/kg	1.0 U	2.1 UJ	1.1 U	33 U
alpha-Chlordane	µg/kg	1.7 U	3.5 UJ	1.8 U	79 U
beta-BHC	µg/kg	1.9 U	4.1 UJ	2.0 U	81 U
delta-BHC	µg/kg	1.9 U	4.0 UJ	2.0 U	27 U
Dieldrin	µg/kg	1.2 U	2.6 UJ	1.3 U	19 U
Endosulfan I	µg/kg	1.3 U	2.8 UJ	1.4 U	27 U
Endosulfan II	µg/kg	1.6 U	3.5 UJ	1.7 U	38 U
Endosulfan sulfate	µg/kg	1.4 U	3.0 UJ	1.5 U	25 U
Endrin	µg/kg	2.1 U	4.5 UJ	2.2 U	29 U
Endrin aldehyde	µg/kg	1.5 U	3.1 UJ	1.5 U	38 U
Endrin ketone	µg/kg	0.99 U	2.1 UJ	1.0 U	23 U
gamma-BHC (lindane)	µg/kg	2.0 U	4.2 UJ	2.1 U	61 U
gamma-Chlordane	µg/kg	1.4 U	2.9 UJ	1.4 U	31 U
Heptachlor	µg/kg	1.8 U	3.7 UJ	1.8 U	16 U
Heptachlor epoxide	µg/kg	1.6 U	3.4 UJ	1.7 U	50 U
Methoxychlor	µg/kg	7.3 UJ	15 UJ	7.7 U	25 U
Toxaphene	µg/kg	28 U	59 UJ	29 U	770 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH130-18**	**BH132-18**	**BH133-18**	**BH136-18**
	Sample Name:	**S-38443-053018-JC-112**	**S-38443-053118-JC-119**	**S-38443-053118-JC-117**	**S-38443-010818-JC-032**
	Sample Date:	**05/30/2018**	**05/31/2018**	**05/31/2018**	**01/08/2018**
	Depth:	**9.5-11.5 ft BGS**	**6.5-8.5 ft BGS**	**7-9 ft BGS**	**1-3 ft BGS**
Parameters	**Unit**				
Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs)					
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	--	--	--	410
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	--	--	--	43 J
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--	120
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--	120
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--	8.5 J
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--	0.39 U
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	65
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--	16 J
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	23 J
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--	16 J
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	2.0 U
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--	6.3 U
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--	15 J
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	21 J
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--	29 J
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--	2.0 J
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--	110
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--	260 J
Total heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--	180 J
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--	150 J
Total hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	230 J
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--	5900 J
Total pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--	300 J
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--	60 J
Total tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--	600 J

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH130-18**	**BH132-18**	**BH133-18**	**BH136-18**
	Sample Name:	**S-38443-053018-JC-112**	**S-38443-053118-JC-119**	**S-38443-053118-JC-117**	**S-38443-010818-JC-032**
	Sample Date:	**05/30/2018**	**05/31/2018**	**05/31/2018**	**01/08/2018**
	Depth:	**9.5-11.5 ft BGS**	**6.5-8.5 ft BGS**	**7-9 ft BGS**	**1-3 ft BGS**
Parameters	**Unit**				
Metals					
Aluminum	mg/kg	8000	11000 J	8000	2400
Antimony	mg/kg	0.32 J	0.25 UJ	0.35	0.41 J
Arsenic	mg/kg	9.6	6.5 J	7.8	6.2
Barium	mg/kg	100	75 J	81	79
Beryllium	mg/kg	0.45	0.57 J	0.47	0.33
Cadmium	mg/kg	0.32	0.13 J	0.50	0.28
Calcium	mg/kg	84000	120000 J	44000	110000
Chromium	mg/kg	15	63 J	20	44
Chromium III (trivalent)	mg/kg	15	55 J	20	44
Chromium VI (hexavalent)	mg/kg	0.28 U	7.5 J	0.28 U	0.26 U
Cobalt	mg/kg	7.3	3.7 J	6.2	3.0
Copper	mg/kg	17	14 J	33	200
Iron	mg/kg	16000	11000 J	21000	11000
Lead	mg/kg	21	15 J	36	120
Lead - coarse fraction	mg/kg	--	--	--	--
Lead - fine fraction	mg/kg	--	--	--	--
Lead - total (calculated by fine/coarse fraction)	mg/kg	--	--	--	--
Magnesium	mg/kg	25000	26000 J	19000	45000
Manganese	mg/kg	1000	290 J	570	230
Mercury	mg/kg	0.079 J	0.045 UJ	0.23	0.021 UJ
Nickel	mg/kg	13	13 J	24	11
Potassium	mg/kg	1000	380 J	880	380
Selenium	mg/kg	0.54 J	0.24 UJ	0.32 J	0.65 J
Silver	mg/kg	0.075 J	0.078 J	0.052 J	0.32 J
Sodium	mg/kg	140 J	110 J	92 J	190
Thallium	mg/kg	0.17 J	0.095 UJ	0.15 J	0.10 J
Vanadium	mg/kg	22	24 J	23	11
Zinc	mg/kg	70	93 J	110	39

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH130-18**	**BH132-18**	**BH133-18**	**BH136-18**
	Sample Name:	**S-38443-053018-JC-112**	**S-38443-053118-JC-119**	**S-38443-053118-JC-117**	**S-38443-010818-JC-032**
	Sample Date:	**05/30/2018**	**05/31/2018**	**05/31/2018**	**01/08/2018**
	Depth:	**9.5-11.5 ft BGS**	**6.5-8.5 ft BGS**	**7-9 ft BGS**	**1-3 ft BGS**
Parameters	**Unit**				
General Chemistry					
Cyanide (total)	mg/kg	0.23 U	0.48 J	0.22 J	0.13 J

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
NJ - Tentatively identified compound, estimated concentration
PCBs - Polychlorinated Biphenyls
R - Rejected
-- - Not applicable

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH136-18**	**BH136-18**	**BH137-18**	**BH137-18**
	Sample Name:	**S-38443-010818-JC-033**	**S-38443-010818-JC-034**	**S-38443-010818-JC-030**	**S-38443-010818-JC-031**
	Sample Date:	**01/08/2018**	**01/08/2018**	**01/08/2018**	**01/08/2018**
	Depth:	**1-3 ft BGS**	**15-17 ft BGS**	**13-15 ft BGS**	**26-28 ft BGS**
		Duplicate			
Parameters	**Unit**				
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/kg	28 U	150 UJ	71 U	190 UJ
1,1,2,2-Tetrachloroethane	µg/kg	24 U	130 UJ	61 U	170 UJ
1,1,2-Trichloroethane	µg/kg	23 U	130 UJ	58 U	160 UJ
1,1-Dichloroethane	µg/kg	31 U	170 UJ	79 U	220 UJ
1,1-Dichloroethene	µg/kg	36 U	200 UJ	91 U	250 UJ
1,2,4-Trichlorobenzene	µg/kg	26 U	140 UJ	66 U	180 UJ
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	48 U	260 UJ	120 U	330 UJ
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	23 U	130 UJ	58 U	160 UJ
1,2-Dichlorobenzene	µg/kg	18 U	99 UJ	46 U	130 UJ
1,2-Dichloroethane	µg/kg	30 U	1200 J	76 U	210 UJ
1,2-Dichloropropane	µg/kg	30 U	1800 J	76 U	210 UJ
1,3-Dichlorobenzene	µg/kg	38 U	210 UJ	96 U	260 UJ
1,4-Dichlorobenzene	µg/kg	27 U	150 UJ	69 U	190 UJ
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	50 U	270 UJ	130 U	350 UJ
2-Hexanone	µg/kg	87 U	470 UJ	220 U	600 UJ
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	40 U	220 UJ	100 U	280 UJ
Acetone	µg/kg	98 U	530 UJ	250 U	670 UJ
Benzene	µg/kg	29 J	11000 J	61 U	170 UJ
Bromodichloromethane	µg/kg	18 U	99 UJ	46 U	130 UJ
Bromoform	µg/kg	23 U	130 UJ	58 U	160 UJ
Bromomethane (Methyl bromide)	µg/kg	28 U	150 UJ	71 U	190 UJ
Carbon disulfide	µg/kg	18 U	99 UJ	46 U	130 UJ
Carbon tetrachloride	µg/kg	27 U	150 UJ	69 U	190 UJ
Chlorobenzene	µg/kg	30 U	160 UJ	76 U	210 UJ
Chloroethane	µg/kg	28 U	150 UJ	71 U	190 UJ
Chloroform (Trichloromethane)	µg/kg	24 U	130 UJ	61 U	170 UJ
Chloromethane (Methyl chloride)	µg/kg	18 U	99 UJ	46 U	130 UJ
cis-1,2-Dichloroethene	µg/kg	3300	35000 J	890	2100 J
cis-1,3-Dichloropropene	µg/kg	23 U	130 UJ	58 U	160 UJ
Cyclohexane	µg/kg	34 J	250 J	76 U	210 UJ
Dibromochloromethane	µg/kg	34 U	190 UJ	86 U	240 UJ
Dichlorodifluoromethane (CFC-12)	µg/kg	22 U	120 UJ	56 U	150 UJ
Ethylbenzene	µg/kg	35 U	6300 J	89 U	240 UJ
Isopropyl benzene	µg/kg	34 U	270 J	86 U	240 UJ
Methyl acetate	µg/kg	75 U	410 UJ	190 U	520 UJ
Methyl cyclohexane	µg/kg	700	2200 J	94 U	260 UJ
Methyl tert butyl ether (MTBE)	µg/kg	26 U	140 UJ	66 U	180 UJ

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH136-18**	**BH136-18**	**BH137-18**	**BH137-18**
	Sample Name:	**S-38443-010818-JC-033**	**S-38443-010818-JC-034**	**S-38443-010818-JC-030**	**S-38443-010818-JC-031**
	Sample Date:	**01/08/2018**	**01/08/2018**	**01/08/2018**	**01/08/2018**
	Depth:	**1-3 ft BGS**	**15-17 ft BGS**	**13-15 ft BGS**	**26-28 ft BGS**
		Duplicate			
Parameters	**Unit**				
Volatile Organic Compounds					
Methylene chloride	µg/kg	65 U	360 UJ	160 U	450 UJ
Styrene	µg/kg	10 U	55 UJ	25 U	70 UJ
Tetrachloroethene	µg/kg	21 U	120 UJ	1300	2500 J
Toluene	µg/kg	150 J	15000 J	61 U	170 UJ
trans-1,2-Dichloroethene	µg/kg	46 J	300 J	89 U	240 UJ
trans-1,3-Dichloropropene	µg/kg	15 U	82 UJ	38 U	100 UJ
Trichloroethene	µg/kg	75 J	1500 J	11000	28000 J
Trichlorofluoromethane (CFC-11)	µg/kg	34 U	190 UJ	86 U	240 UJ
Trifluorotrichloroethane (CFC-113)	µg/kg	23 U	130 UJ	58 U	160 UJ
Vinyl chloride	µg/kg	78 J	1100 J	43 U	120 UJ
Xylenes (total)	µg/kg	42 J	7400 J	71 U	190 UJ
Semivolatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	100 U	240 U	44 U	120 U
2,4,5-Trichlorophenol	µg/kg	270 U	640 U	110 U	310 U
2,4,6-Trichlorophenol	µg/kg	96 U	230 U	41 U	110 U
2,4-Dichlorophenol	µg/kg	210 U	510 U	92 U	250 U
2,4-Dimethylphenol	µg/kg	210 U	510 U	92 U	250 U
2,4-Dinitrophenol	µg/kg	230 U	540 U	96 U	260 U
2,4-Dinitrotoluene	µg/kg	180 U	440 U	78 U	210 U
2,6-Dinitrotoluene	µg/kg	230 U	540 U	96 U	260 U
2-Chloronaphthalene	µg/kg	4.8 U	12 U	2.1 U	5.6 U
2-Chlorophenol	µg/kg	88 U	210 U	38 U	100 U
2-Methylnaphthalene	µg/kg	440	860	450	410
2-Methylphenol	µg/kg	120 U	280 U	51 U	140 U
2-Nitroaniline	µg/kg	98 U	230 U	42 U	110 U
2-Nitrophenol	µg/kg	89 U	210 U	38 U	100 U
3&4-Methylphenol	µg/kg	210 U	1400 J	98 J	250 U
3,3'-Dichlorobenzidine	µg/kg	190 U	460 U	83 U	220 U
3-Nitroaniline	µg/kg	170 U	410 U	73 U	200 U
4,6-Dinitro-2-methylphenol	µg/kg	99 U	240 U	42 U	110 U
4-Bromophenyl phenyl ether	µg/kg	140 U	330 U	60 U	160 U
4-Chloro-3-methylphenol	µg/kg	230 U	540 U	96 U	260 U
4-Chloroaniline	µg/kg	180 U	440 U	78 U	210 U
4-Chlorophenyl phenyl ether	µg/kg	140 U	330 U	60 U	160 U
4-Nitroaniline	µg/kg	280 U	670 U	120 U	320 U
4-Nitrophenol	µg/kg	180 U	440 U	78 U	210 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH136-18**	**BH136-18**	**BH137-18**	**BH137-18**
	Sample Name:	**S-38443-010818-JC-033**	**S-38443-010818-JC-034**	**S-38443-010818-JC-030**	**S-38443-010818-JC-031**
	Sample Date:	**01/08/2018**	**01/08/2018**	**01/08/2018**	**01/08/2018**
	Depth:	**1-3 ft BGS**	**15-17 ft BGS**	**13-15 ft BGS**	**26-28 ft BGS**
		Duplicate			
Parameters	**Unit**				
Semivolatile Organic Compounds					
Acenaphthene	µg/kg	8.2 U	290	290	300
Acenaphthylene	µg/kg	3.8 U	9.0 U	1.6 U	4.3 U
Acetophenone	µg/kg	99 U	240 U	42 U	110 U
Anthracene	µg/kg	69 J	180	280	900
Atrazine	µg/kg	98 U	230 U	42 U	110 U
Benzaldehyde	µg/kg	130 U	310 U	55 U	150 U
Benzo(a)anthracene	µg/kg	500 J	410	330	870
Benzo(a)pyrene	µg/kg	780 J	420	250	700
Benzo(b)fluoranthene	µg/kg	1800 J	700	530	1100
Benzo(g,h,i)perylene	µg/kg	520 J	9.0 U	83	230
Benzo(k)fluoranthene	µg/kg	600 J	220	150	450
Biphenyl (1,1-Biphenyl)	µg/kg	92 J	340 J	160 J	530 J
bis(2-Chloroethoxy)methane	µg/kg	240 U	560 U	100 U	270 U
bis(2-Chloroethyl)ether	µg/kg	21 U	51 U	9.2 U	25 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	200 U	490 U	87 U	230 U
Butyl benzylphthalate (BBP)	µg/kg	110 U	260 U	46 U	120 U
Caprolactam	µg/kg	400 U	950 U	170 U	460 U
Carbazole	µg/kg	290 U	690 U	120 U	330 U
Chrysene	µg/kg	800 J	760	430	970
Di-n-butylphthalate (DBP)	µg/kg	160 U	380 U	69 U	190 U
Di-n-octyl phthalate (DnOP)	µg/kg	85 U	200 U	36 U	97 U
Dibenz(a,h)anthracene	µg/kg	7.1 U	17 U	3.0 U	8.1 U
Dibenzofuran	µg/kg	140 J	17 U	280	360 J
Diethyl phthalate	µg/kg	170 U	410 U	73 U	200 U
Dimethyl phthalate	µg/kg	180 U	440 U	78 U	210 U
Fluoranthene	µg/kg	730	940	1500	4000
Fluorene	µg/kg	63 J	240	300	470
Hexachlorobenzene	µg/kg	23 U	54 U	9.6 U	350
Hexachlorobutadiene	µg/kg	60 U	140 U	26 U	69 U
Hexachlorocyclopentadiene	µg/kg	87 U	210 U	37 U	100 U
Hexachloroethane	µg/kg	97 U	230 U	41 U	110 U
Indeno(1,2,3-cd)pyrene	µg/kg	420 J	9.0 U	76	200
Isophorone	µg/kg	140 U	330 U	60 U	160 U
N-Nitrosodi-n-propylamine	µg/kg	68 U	160 U	29 U	78 U
N-Nitrosodiphenylamine	µg/kg	230 U	540 U	100 J	260 U
Naphthalene	µg/kg	350	540	670	590
Nitrobenzene	µg/kg	24 U	56 U	10 U	27 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH136-18**	**BH136-18**	**BH137-18**	**BH137-18**
	Sample Name:	**S-38443-010818-JC-033**	**S-38443-010818-JC-034**	**S-38443-010818-JC-030**	**S-38443-010818-JC-031**
	Sample Date:	**01/08/2018**	**01/08/2018**	**01/08/2018**	**01/08/2018**
	Depth:	**1-3 ft BGS**	**15-17 ft BGS**	**13-15 ft BGS**	**26-28 ft BGS**
		Duplicate			
Parameters	**Unit**				
Semivolatile Organic Compounds					
Pentachlorophenol	µg/kg	98 U	230 U	42 U	110 U
Phenanthrene	µg/kg	510	1400	2500	6700
Phenol	µg/kg	78 U	700 J	640	380 J
Pyrene	µg/kg	810	1000	1500	3100
PCBs					
Aroclor-1016 (PCB-1016)	µg/kg	23 U	28 U	120 U	130 U
Aroclor-1221 (PCB-1221)	µg/kg	25 U	31 U	130 U	150 U
Aroclor-1232 (PCB-1232)	µg/kg	24 U	29 U	130 U	140 U
Aroclor-1242 (PCB-1242)	µg/kg	20 U	24 U	400	280 J
Aroclor-1248 (PCB-1248)	µg/kg	25 U	31 U	130 U	150 U
Aroclor-1254 (PCB-1254)	µg/kg	440 J	65	2700	1700
Aroclor-1260 (PCB-1260)	µg/kg	23 U	28 U	120 U	130 U
Pesticides					
4,4'-DDD	µg/kg	34 U	4.2 U	73 U	80 U
4,4'-DDE	µg/kg	12 U	1.5 U	27 U	29 U
4,4'-DDT	µg/kg	14 U	6.8	31 U	61 NJ
Aldrin	µg/kg	25 U	3.1 U	53 U	58 U
alpha-BHC	µg/kg	16 U	2.0 U	36 U	39 U
alpha-Chlordane	µg/kg	39 U	4.8 U	84 U	93 U
beta-BHC	µg/kg	40 U	5.0 U	87 U	95 U
delta-BHC	µg/kg	13 U	1.7 U	29 U	32 U
Dieldrin	µg/kg	9.3 U	1.1 U	20 U	22 U
Endosulfan I	µg/kg	13 U	1.7 U	29 U	32 U
Endosulfan II	µg/kg	19 U	2.3 U	40 U	44 U
Endosulfan sulfate	µg/kg	12 U	1.5 U	27 U	29 U
Endrin	µg/kg	14 U	1.8 U	31 U	34 U
Endrin aldehyde	µg/kg	19 U	230 U	40 U	44 U
Endrin ketone	µg/kg	11 U	1.4 U	24 U	27 U
gamma-BHC (lindane)	µg/kg	30 U	3.7 U	64 U	71 U
gamma-Chlordane	µg/kg	15 U	1.9 U	33 U	37 U
Heptachlor	µg/kg	8.0 U	0.99 U	17 U	19 U
Heptachlor epoxide	µg/kg	25 U	3.1 U	53 U	58 U
Methoxychlor	µg/kg	12 U	1.5 U	27 U	29 U
Toxaphene	µg/kg	380 U	47 U	820 U	900 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH136-18**	**BH136-18**	**BH137-18**	**BH137-18**
	Sample Name:	**S-38443-010818-JC-033**	**S-38443-010818-JC-034**	**S-38443-010818-JC-030**	**S-38443-010818-JC-031**
	Sample Date:	**01/08/2018**	**01/08/2018**	**01/08/2018**	**01/08/2018**
	Depth:	**1-3 ft BGS**	**15-17 ft BGS**	**13-15 ft BGS**	**26-28 ft BGS**
		Duplicate			
Parameters	**Unit**				
Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs)					
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	480	130	700	4600
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	35	17 J	7.4 J	670
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	140	39 J	630	820
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	85	40 J	95	430
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	6.9	3.7 J	1.8 J	22
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	4.0 J	2.6 J	48 J	25
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	48 J	28 J	19 J	160 J
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	18	5.6 J	310	110
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	16	13 J	25 J	69 J
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	15	5.8 J	450	140
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	0.88 J	2.4 U	1.5 U	7.5 U
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	15 U	4.3 J	290	83
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	15	8.6 J	12 J	32
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	17	11 J	29 J	110 J
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	30	12 J	23 J	73
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	1.3 J	0.88 U	78	22
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	200	8.5 J	14 J	34 J
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	300 J	80 J	1300 J	1600 J
Total heptachlorodibenzofuran (HpCDF)	pg/g	140 J	58 J	120 J	850 J
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	160 J	57 J	3200 J	1100 J
Total hexachlorodibenzofuran (HxCDF)	pg/g	190 J	97 J	370 J	1100 J
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	12000 J	50 J	2400 J	3500 J
Total pentachlorodibenzofuran (PeCDF)	pg/g	290 J	140 J	550 J	1900 J
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	38 J	29 J	1300 J	530 J
Total tetrachlorodibenzofuran (TCDF)	pg/g	720 J	250 J	820 J	3300 J

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH136-18**	**BH136-18**	**BH137-18**	**BH137-18**
	Sample Name:	**S-38443-010818-JC-033**	**S-38443-010818-JC-034**	**S-38443-010818-JC-030**	**S-38443-010818-JC-031**
	Sample Date:	**01/08/2018**	**01/08/2018**	**01/08/2018**	**01/08/2018**
	Depth:	**1-3 ft BGS**	**15-17 ft BGS**	**13-15 ft BGS**	**26-28 ft BGS**
		Duplicate			
Parameters	**Unit**				
Metals					
Aluminum	mg/kg	4500	7200	6100	8500
Antimony	mg/kg	0.42 J	2.9 J	5.3 J	7.2 J
Arsenic	mg/kg	5.2	120	19	25
Barium	mg/kg	130	390	1900	1800
Beryllium	mg/kg	0.41	2.9	0.68	1.1
Cadmium	mg/kg	0.42	53	4.5	8.4
Calcium	mg/kg	49000	27000	22000	36000
Chromium	mg/kg	61	82	75	140
Chromium III (trivalent)	mg/kg	60	82	73	140
Chromium VI (hexavalent)	mg/kg	1.0	0.31 U	1.7 J	1.5 U
Cobalt	mg/kg	3.6	15	11	28
Copper	mg/kg	190	460	1300	4700
Iron	mg/kg	23000	41000	100000	89000
Lead	mg/kg	180	390	1100	1200
Lead - coarse fraction	mg/kg	--	--	--	--
Lead - fine fraction	mg/kg	--	--	--	--
Lead - total (calculated by fine/coarse fraction)	mg/kg	--	--	--	--
Magnesium	mg/kg	24000	5400	6200	10000
Manganese	mg/kg	360	370	320	1500
Mercury	mg/kg	0.81 J	0.35	0.15	0.88
Nickel	mg/kg	12	37	44	140
Potassium	mg/kg	560	910	1200	1300
Selenium	mg/kg	0.52 J	5.0	1.5	2.0
Silver	mg/kg	5.0 J	1.8	1.4	3.0
Sodium	mg/kg	260	580	720	830
Thallium	mg/kg	0.086 J	0.41	0.14 J	0.25
Vanadium	mg/kg	12	41	14	28
Zinc	mg/kg	87	4300	2200	6100

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH136-18**	**BH136-18**	**BH137-18**	**BH137-18**
	Sample Name:	**S-38443-010818-JC-033**	**S-38443-010818-JC-034**	**S-38443-010818-JC-030**	**S-38443-010818-JC-031**
	Sample Date:	**01/08/2018**	**01/08/2018**	**01/08/2018**	**01/08/2018**
	Depth:	**1-3 ft BGS**	**15-17 ft BGS**	**13-15 ft BGS**	**26-28 ft BGS**
		Duplicate			
Parameters	**Unit**				
General Chemistry					
Cyanide (total)	mg/kg	0.21 J	8.5	0.31 J	0.35 J

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
NJ - Tentatively identified compound, estimated concentration
PCBs - Polychlorinated Biphenyls
R - Rejected
-- - Not applicable

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH138-18**	**BH139-18**	**BH140-18**	**BH141-18**
	Sample Name:	**S-38443-010918-JC-035**	**S-38443-010418-JC-028**	**S-38443-010818-JC-029**	**S-38443-010918-JC-036**
	Sample Date:	**01/09/2018**	**01/04/2018**	**01/08/2018**	**01/09/2018**
	Depth:	**8-10 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**	**6-8 ft BGS**
Parameters	**Unit**				
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/kg	0.33 U	170 U	0.32 U	85 UJ
1,1,2,2-Tetrachloroethane	µg/kg	0.38 U	140 U	R	73 U
1,1,2-Trichloroethane	µg/kg	0.57 U	140 U	0.54 U	70 U
1,1-Dichloroethane	µg/kg	0.48 U	180 U	1.1 J	94 U
1,1-Dichloroethene	µg/kg	0.79 U	210 U	3.5 J	110 U
1,2,4-Trichlorobenzene	µg/kg	0.35 U	150 U	R	79 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	0.99 U	280 U	R	150 U
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	0.51 U	140 U	0.48 U	70 U
1,2-Dichlorobenzene	µg/kg	0.32 U	110 U	R	54 U
1,2-Dichloroethane	µg/kg	0.42 U	180 U	0.40 U	91 U
1,2-Dichloropropane	µg/kg	0.45 U	180 U	0.43 U	91 U
1,3-Dichlorobenzene	µg/kg	0.42 U	220 U	R	110 U
1,4-Dichlorobenzene	µg/kg	0.51 U	160 U	R	82 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	12 J	290 U	1.7 U	170 J
2-Hexanone	µg/kg	0.84 U	510 U	0.80 U	260 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	1.3 U	240 U	1.2 U	120 U
Acetone	µg/kg	79	570 U	34 J	1400 J
Benzene	µg/kg	0.47 U	140 U	2.6 J	140 J
Bromodichloromethane	µg/kg	0.48 U	110 U	0.45 U	54 U
Bromoform	µg/kg	0.58 UJ	140 U	0.55 U	70 U
Bromomethane (Methyl bromide)	µg/kg	0.86 U	170 U	0.81 U	85 U
Carbon disulfide	µg/kg	1.8 J	110 U	0.29 U	54 U
Carbon tetrachloride	µg/kg	0.36 U	160 U	0.34 U	82 U
Chlorobenzene	µg/kg	0.48 U	180 U	0.45 U	26000
Chloroethane	µg/kg	0.55 U	170 U	0.52 U	85 U
Chloroform (Trichloromethane)	µg/kg	0.33 U	140 U	0.32 U	73 U
Chloromethane (Methyl chloride)	µg/kg	0.55 U	110 U	0.52 U	54 U
cis-1,2-Dichloroethene	µg/kg	0.41 U	330 J	150	240 J
cis-1,3-Dichloropropene	µg/kg	0.38 U	140 U	0.36 U	70 U
Cyclohexane	µg/kg	0.31 U	180 U	0.29 U	91 U
Dibromochloromethane	µg/kg	0.44 U	200 U	0.41 U	100 U
Dichlorodifluoromethane (CFC-12)	µg/kg	0.51 U	130 U	0.48 U	66 U
Ethylbenzene	µg/kg	0.39 U	210 U	0.37 U	270 J
Isopropyl benzene	µg/kg	0.29 U	200 U	0.28 U	100 U
Methyl acetate	µg/kg	1.7 U	440 U	1.6 U	230 U
Methyl cyclohexane	µg/kg	0.33 U	220 U	0.32 U	210 J
Methyl tert butyl ether (MTBE)	µg/kg	0.39 U	150 U	0.37 U	79 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH138-18**	**BH139-18**	**BH140-18**	**BH141-18**
	Sample Name:	**S-38443-010918-JC-035**	**S-38443-010418-JC-028**	**S-38443-010818-JC-029**	**S-38443-010918-JC-036**
	Sample Date:	**01/09/2018**	**01/04/2018**	**01/08/2018**	**01/09/2018**
	Depth:	**8-10 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**	**6-8 ft BGS**
Parameters	**Unit**				
Volatile Organic Compounds					
Methylene chloride	µg/kg	13 U	380 U	0.33 U	150 U
Styrene	µg/kg	0.39 U	59 U	0.37 U	30 U
Tetrachloroethene	µg/kg	0.54 U	40000	1.5 J	63 U
Toluene	µg/kg	0.49 U	140 U	0.47 U	180 J
trans-1,2-Dichloroethene	µg/kg	0.55 U	210 U	9.9	110 U
trans-1,3-Dichloropropene	µg/kg	0.31 UJ	88 U	0.29 U	45 U
Trichloroethene	µg/kg	0.60 U	25000	15	430 J
Trichlorofluoromethane (CFC-11)	µg/kg	0.35 U	200 U	0.33 U	100 U
Trifluorotrichloroethane (CFC-113)	µg/kg	0.71 U	140 U	0.67 U	70 U
Vinyl chloride	µg/kg	0.41 U	100 U	3.0 J	51 U
Xylenes (total)	µg/kg	0.58 U	170 U	0.55 U	720 J
Semivolatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	13 U	240 U	24 U	16 U
2,4,5-Trichlorophenol	µg/kg	35 U	620 U	64 U	43 U
2,4,6-Trichlorophenol	µg/kg	12 U	220 U	23 U	15 U
2,4-Dichlorophenol	µg/kg	28 U	490 U	51 U	34 U
2,4-Dimethylphenol	µg/kg	28 U	490 U	51 U	34 U
2,4-Dinitrophenol	µg/kg	29 U	520 U	53 U	36 U
2,4-Dinitrotoluene	µg/kg	24 U	420 U	43 U	29 U
2,6-Dinitrotoluene	µg/kg	29 U	520 U	53 U	36 U
2-Chloronaphthalene	µg/kg	0.63 U	11 U	1.1 U	0.77 U
2-Chlorophenol	µg/kg	11 U	200 U	21 U	14 U
2-Methylnaphthalene	µg/kg	27	460	51	1200
2-Methylphenol	µg/kg	25 J	270 U	28 U	19 U
2-Nitroaniline	µg/kg	13 U	230 U	23 U	16 U
2-Nitrophenol	µg/kg	12 U	210 U	21 U	14 U
3&4-Methylphenol	µg/kg	35 J	490 U	51 U	34 U
3,3'-Dichlorobenzidine	µg/kg	25 U	450 U	46 U	31 U
3-Nitroaniline	µg/kg	22 U	400 U	41 U	27 U
4,6-Dinitro-2-methylphenol	µg/kg	13 U	230 U	23 U	16 U
4-Bromophenyl phenyl ether	µg/kg	18 U	320 U	33 U	22 U
4-Chloro-3-methylphenol	µg/kg	29 U	520 U	53 U	36 U
4-Chloroaniline	µg/kg	24 U	420 U	43 U	29 U
4-Chlorophenyl phenyl ether	µg/kg	18 U	320 U	33 U	22 U
4-Nitroaniline	µg/kg	36 U	640 U	66 U	44 U
4-Nitrophenol	µg/kg	24 U	420 U	43 U	29 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH138-18**	**BH139-18**	**BH140-18**	**BH141-18**
	Sample Name:	**S-38443-010918-JC-035**	**S-38443-010418-JC-028**	**S-38443-010818-JC-029**	**S-38443-010918-JC-036**
	Sample Date:	**01/09/2018**	**01/04/2018**	**01/08/2018**	**01/09/2018**
	Depth:	**8-10 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**	**6-8 ft BGS**
Parameters	**Unit**				
Semivolatile Organic Compounds					
Acenaphthene	µg/kg	1.1 U	19 U	1.9 U	98
Acenaphthylene	µg/kg	0.49 U	8.7 U	8.7 J	27
Acetophenone	µg/kg	130 J	230 U	23 U	16 U
Anthracene	µg/kg	1.1 U	19 U	33	1.3 U
Atrazine	µg/kg	13 U	230 U	23 U	16 U
Benzaldehyde	µg/kg	150	300 U	36 J	20 U
Benzo(a)anthracene	µg/kg	23	16 U	52	41
Benzo(a)pyrene	µg/kg	31	16 U	36	1.1 U
Benzo(b)fluoranthene	µg/kg	52	15 U	96	60
Benzo(g,h,i)perylene	µg/kg	16	8.7 U	37	0.60 U
Benzo(k)fluoranthene	µg/kg	16	17 U	25	1.2 U
Biphenyl (1,1-Biphenyl)	µg/kg	40 J	110 J	51 J	180
bis(2-Chloroethoxy)methane	µg/kg	31 U	540 U	56 U	38 U
bis(2-Chloroethyl)ether	µg/kg	2.8 U	49 U	5.1 U	3.4 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	26 U	470 U	2000	270
Butyl benzylphthalate (BBP)	µg/kg	14 U	250 U	25 U	17 U
Caprolactam	µg/kg	51 U	920 U	94 U	63 U
Carbazole	µg/kg	38 U	670 U	69 U	46 U
Chrysene	µg/kg	29	27 U	100	73
Di-n-butylphthalate (DBP)	µg/kg	65 J	370 U	270	63 J
Di-n-octyl phthalate (DnOP)	µg/kg	11 U	200 U	20 U	13 U
Dibenz(a,h)anthracene	µg/kg	0.92 U	16 U	1.7 U	1.1 U
Dibenzofuran	µg/kg	20 J	16 U	64 J	1.1 U
Diethyl phthalate	µg/kg	22 U	690 J	41 U	36 J
Dimethyl phthalate	µg/kg	24 U	420 U	43 U	680
Fluoranthene	µg/kg	42	330	180	170
Fluorene	µg/kg	0.74 U	13 U	12 J	130
Hexachlorobenzene	µg/kg	2.9 U	52 U	5.3 U	3.6 U
Hexachlorobutadiene	µg/kg	7.8 U	140 U	14 U	9.6 U
Hexachlorocyclopentadiene	µg/kg	11 U	200 U	21 U	14 U
Hexachloroethane	µg/kg	13 U	220 U	23 U	15 U
Indeno(1,2,3-cd)pyrene	µg/kg	13	8.7 U	0.89 U	0.60 U
Isophorone	µg/kg	18 U	320 U	33 U	22 U
N-Nitrosodi-n-propylamine	µg/kg	8.8 U	160 U	16 U	11 U
N-Nitrosodiphenylamine	µg/kg	29 U	520 U	53 U	36 U
Naphthalene	µg/kg	50	240	25	1500
Nitrobenzene	µg/kg	3.1 U	54 U	5.6 U	3.8 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH138-18**	**BH139-18**	**BH140-18**	**BH141-18**
	Sample Name:	**S-38443-010918-JC-035**	**S-38443-010418-JC-028**	**S-38443-010818-JC-029**	**S-38443-010918-JC-036**
	Sample Date:	**01/09/2018**	**01/04/2018**	**01/08/2018**	**01/09/2018**
	Depth:	**8-10 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**	**6-8 ft BGS**
Parameters	**Unit**				
Semivolatile Organic Compounds					
Pentachlorophenol	µg/kg	13 U	230 U	23 U	16 U
Phenanthrene	µg/kg	27	590	290	210
Phenol	µg/kg	10 U	980 J	19 U	12 U
Pyrene	µg/kg	42	550	200	130
PCBs					
Aroclor-1016 (PCB-1016)	µg/kg	31 U	27 U	1300 U	38 U
Aroclor-1221 (PCB-1221)	µg/kg	34 U	30 U	1500 U	42 U
Aroclor-1232 (PCB-1232)	µg/kg	33 U	28 U	1400 U	40 U
Aroclor-1242 (PCB-1242)	µg/kg	130	23 U	29000	33 U
Aroclor-1248 (PCB-1248)	µg/kg	34 U	30 U	1500 U	59 J
Aroclor-1254 (PCB-1254)	µg/kg	33 U	94	10000	40 U
Aroclor-1260 (PCB-1260)	µg/kg	31 U	27 U	1300 U	38 U
Pesticides					
4,4'-DDD	µg/kg	94 U	82 U	200 U	110 U
4,4'-DDE	µg/kg	34 U	30 U	73 U	40 U
4,4'-DDT	µg/kg	40 U	35 U	85 U	46 U
Aldrin	µg/kg	69 U	60 U	150 U	80 U
alpha-BHC	µg/kg	46 U	40 U	97 U	53 U
alpha-Chlordane	µg/kg	110 U	95 U	230 U	130 U
beta-BHC	µg/kg	110 U	97 U	240 U	130 U
delta-BHC	µg/kg	37 U	32 U	79 U	130 J
Dieldrin	µg/kg	26 U	22 U	55 U	30 U
Endosulfan I	µg/kg	37 U	32 U	79 U	43 U
Endosulfan II	µg/kg	52 U	45 U	110 U	60 U
Endosulfan sulfate	µg/kg	34 U	30 U	73 U	40 U
Endrin	µg/kg	40 U	35 U	85 U	46 U
Endrin aldehyde	µg/kg	52 U	45 U	110 U	60 U
Endrin ketone	µg/kg	31 U	27 U	67 U	37 U
gamma-BHC (lindane)	µg/kg	83 U	72 U	180 U	96 U
gamma-Chlordane	µg/kg	43 U	37 U	91 U	50 U
Heptachlor	µg/kg	22 U	19 U	47 U	26 U
Heptachlor epoxide	µg/kg	69 U	60 U	150 U	80 U
Methoxychlor	µg/kg	34 U	30 U	73 U	40 U
Toxaphene	µg/kg	1100 U	920 U	2200 U	1200 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH138-18**	**BH139-18**	**BH140-18**	**BH141-18**
	Sample Name:	**S-38443-010918-JC-035**	**S-38443-010418-JC-028**	**S-38443-010818-JC-029**	**S-38443-010918-JC-036**
	Sample Date:	**01/09/2018**	**01/04/2018**	**01/08/2018**	**01/09/2018**
	Depth:	**8-10 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**	**6-8 ft BGS**
Parameters	**Unit**				
Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs)					
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	48	540	44	1200
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	12 J	13	9.8 J	130
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	8.9	120	22	180
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	6.0 J	16	120	100
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	0.33 J	0.64 J	3.1 J	5.8 J
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	0.30 J	2.4 J	5.1 J	3.8 J
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	3.5 J	4.4 J	120	40
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	1.1 J	24	6.8	16
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	5.0 J	4.9 J	41	17 J
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	1.0 J	16	13	15
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	0.97 U	1.8 U	2.1 U	1.5 U
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	0.83 J	3.5 J	14 J	5.8 J
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	1.3 J	0.84 J	47	11
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	1.8 J	1.5 U	39	15
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	3.2 J	1.8 J	76	23
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	0.13 U	0.89 J	5.7	1.4 J
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	10	3.7	70 J	17
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	16 J	220 J	47 J	390 J
Total heptachlorodibenzofuran (HpCDF)	pg/g	12 J	33 J	140 J	250 J
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	11 J	160 J	100 J	180 J
Total hexachlorodibenzofuran (HxCDF)	pg/g	120 J	77 J	420 J	220 J
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	9.9 J	300 J	180 J	230 J
Total pentachlorodibenzofuran (PeCDF)	pg/g	350 J	200 J	1000 J	320 J
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	10 J	250 J	350 J	120 J
Total tetrachlorodibenzofuran (TCDF)	pg/g	680 J	370 J	2600 J	610 J

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH138-18**	**BH139-18**	**BH140-18**	**BH141-18**
	Sample Name:	**S-38443-010918-JC-035**	**S-38443-010418-JC-028**	**S-38443-010818-JC-029**	**S-38443-010918-JC-036**
	Sample Date:	**01/09/2018**	**01/04/2018**	**01/08/2018**	**01/09/2018**
	Depth:	**8-10 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**	**6-8 ft BGS**
Parameters	**Unit**				
Metals					
Aluminum	mg/kg	5500	2600	19000	5500
Antimony	mg/kg	1.7	0.49	6.8 J	2.3
Arsenic	mg/kg	30	11	22	28
Barium	mg/kg	330	6200	2200	200
Beryllium	mg/kg	3.2	0.51	0.93	6.9
Cadmium	mg/kg	1.2	5.3	29	0.48
Calcium	mg/kg	24000	11000	30000	14000
Chromium	mg/kg	24	300	120	90
Chromium III (trivalent)	mg/kg	24	300	120	89
Chromium VI (hexavalent)	mg/kg	0.34 U	3.0 U	1.5 U	1.1 J
Cobalt	mg/kg	11	37	17	18
Copper	mg/kg	56	2700	1500	250
Iron	mg/kg	8500	23000	150000	13000
Lead	mg/kg	75	16000	1700	590
Lead - coarse fraction	mg/kg	--	--	--	--
Lead - fine fraction	mg/kg	--	--	--	--
Lead - total (calculated by fine/coarse fraction)	mg/kg	--	--	--	--
Magnesium	mg/kg	10000	97000	12000	4600
Manganese	mg/kg	70	400	520	78
Mercury	mg/kg	0.081 J	0.058 J	3.9	1.1
Nickel	mg/kg	20	640	170	36
Potassium	mg/kg	720	360	1100	470
Selenium	mg/kg	5.6	1.3	1.5	38
Silver	mg/kg	0.10 J	0.52	2.9	0.26 J
Sodium	mg/kg	310	110 J	790	250 J
Thallium	mg/kg	0.51	0.28 J	0.20 J	2.4
Vanadium	mg/kg	38	15	23	79
Zinc	mg/kg	140	740	19000	80

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH138-18**	**BH139-18**	**BH140-18**	**BH141-18**
	Sample Name:	**S-38443-010918-JC-035**	**S-38443-010418-JC-028**	**S-38443-010818-JC-029**	**S-38443-010918-JC-036**
	Sample Date:	**01/09/2018**	**01/04/2018**	**01/08/2018**	**01/09/2018**
	Depth:	**8-10 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**	**6-8 ft BGS**
Parameters	**Unit**				
General Chemistry					
Cyanide (total)	mg/kg	0.33 J	0.30 J	8.7	3.5

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
NJ - Tentatively identified compound, estimated concentration
PCBs - Polychlorinated Biphenyls
R - Rejected
-- - Not applicable

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH142-18**	**BH143-18**	**BH143-18**	**BH144-18**
	Sample Name:	**S-38443-010418-JC-027**	**S-38443-012318-JC-061**	**S-38443-012318-JC-062**	**S-38443-012218-JC-057**
	Sample Date:	**01/04/2018**	**01/23/2018**	**01/23/2018**	**01/22/2018**
	Depth:	**8-10 ft BGS**	**10-12 ft BGS**	**10-12 ft BGS Duplicate**	**14.5-16.5 ft BGS**
Parameters	**Unit**				
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/kg	0.24 U	0.37 U	0.40 U	0.21 U
1,1,2,2-Tetrachloroethane	µg/kg	0.27 U	0.42 U	0.46 U	0.24 U
1,1,2-Trichloroethane	µg/kg	0.41 U	0.63 U	0.69 U	0.36 U
1,1-Dichloroethane	µg/kg	0.34 U	0.54 U	0.58 U	0.31 U
1,1-Dichloroethene	µg/kg	0.56 U	0.88 U	0.95 U	0.50 U
1,2,4-Trichlorobenzene	µg/kg	0.25 U	0.39 U	0.42 U	0.22 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	0.71 U	1.1 U	1.2 U	0.63 U
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	0.36 U	0.57 U	0.62 U	0.33 U
1,2-Dichlorobenzene	µg/kg	0.23 U	0.36 U	0.39 U	0.20 U
1,2-Dichloroethane	µg/kg	0.30 U	0.47 U	0.51 U	0.27 U
1,2-Dichloropropane	µg/kg	0.32 U	0.50 U	0.55 U	0.29 U
1,3-Dichlorobenzene	µg/kg	0.30 U	0.47 U	0.51 U	0.27 U
1,4-Dichlorobenzene	µg/kg	0.36 U	0.57 U	0.62 U	0.33 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	2.1 J	16 J	28 J	3.0 J
2-Hexanone	µg/kg	0.60 U	0.94 U	1.0 U	0.54 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	0.93 U	1.4 U	1.6 U	0.83 U
Acetone	µg/kg	33	71 J	120 J	9.4 J
Benzene	µg/kg	0.33 U	0.52 U	0.62 J	0.30 U
Bromodichloromethane	µg/kg	0.34 U	0.54 U	0.58 U	0.31 U
Bromoform	µg/kg	0.42 U	0.65 U	0.70 U	0.37 U
Bromomethane (Methyl bromide)	µg/kg	0.61 U	0.96 U	1.0 U	0.55 U
Carbon disulfide	µg/kg	0.38 J	1.8 J	1.6 J	0.20 U
Carbon tetrachloride	µg/kg	0.26 U	0.41 U	0.44 U	0.23 U
Chlorobenzene	µg/kg	0.34 U	0.54 U	0.58 U	0.31 U
Chloroethane	µg/kg	0.40 U	0.62 U	0.67 U	0.35 U
Chloroform (Trichloromethane)	µg/kg	0.24 U	0.37 U	0.40 U	0.21 U
Chloromethane (Methyl chloride)	µg/kg	0.40 U	0.62 U	0.67 U	0.35 U
cis-1,2-Dichloroethene	µg/kg	0.29 U	0.45 U	0.49 U	0.36 J
cis-1,3-Dichloropropene	µg/kg	0.27 U	0.42 U	0.46 U	0.24 U
Cyclohexane	µg/kg	0.22 U	0.34 U	0.37 U	0.20 U
Dibromochloromethane	µg/kg	0.31 U	0.49 U	0.53 U	0.28 U
Dichlorodifluoromethane (CFC-12)	µg/kg	0.36 U	0.57 UJ	0.62 UJ	0.33 U
Ethylbenzene	µg/kg	0.28 U	0.44 U	0.47 U	0.25 U
Isopropyl benzene	µg/kg	0.21 U	0.32 U	0.35 U	0.19 U
Methyl acetate	µg/kg	1.2 U	1.9 U	2.1 U	1.1 U
Methyl cyclohexane	µg/kg	0.24 U	0.37 U	0.40 U	0.21 U
Methyl tert butyl ether (MTBE)	µg/kg	0.28 U	0.44 U	0.47 U	0.25 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH142-18**	**BH143-18**	**BH143-18**	**BH144-18**
	Sample Name:	**S-38443-010418-JC-027**	**S-38443-012318-JC-061**	**S-38443-012318-JC-062**	**S-38443-012218-JC-057**
	Sample Date:	**01/04/2018**	**01/23/2018**	**01/23/2018**	**01/22/2018**
	Depth:	**8-10 ft BGS**	**10-12 ft BGS**	**10-12 ft BGS Duplicate**	**14.5-16.5 ft BGS**
Parameters	**Unit**				
Volatile Organic Compounds					
Methylene chloride	µg/kg	1.3 U	55	63	5.8 U
Styrene	µg/kg	0.28 U	0.44 U	0.47 U	0.25 U
Tetrachloroethene	µg/kg	0.39 U	0.60 U	0.65 U	0.34 U
Toluene	µg/kg	3.3 J	0.77 J	1.3 J	0.32 U
trans-1,2-Dichloroethene	µg/kg	0.40 U	0.62 U	0.67 U	0.35 U
trans-1,3-Dichloropropene	µg/kg	0.22 U	0.34 U	0.37 U	0.20 U
Trichloroethene	µg/kg	0.75 J	0.67 U	0.72 U	0.38 U
Trichlorofluoromethane (CFC-11)	µg/kg	0.25 U	0.39 U	0.42 U	0.22 U
Trifluorotrichloroethane (CFC-113)	µg/kg	0.51 U	0.80 U	0.86 U	0.46 U
Vinyl chloride	µg/kg	0.29 U	0.45 U	0.49 U	0.26 U
Xylenes (total)	µg/kg	0.42 U	0.65 U	0.70 U	0.37 U
Semivolatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	500 U	250 U	54 U	12 U
2,4,5-Trichlorophenol	µg/kg	1300 U	670 U	140 U	30 U
2,4,6-Trichlorophenol	µg/kg	470 U	240 U	51 U	11 U
2,4-Dichlorophenol	µg/kg	1100 U	530 U	110 U	24 U
2,4-Dimethylphenol	µg/kg	1100 U	1400 J	490 J	24 U
2,4-Dinitrophenol	µg/kg	1100 U	560 U	120 U	26 U
2,4-Dinitrotoluene	µg/kg	900 U	450 U	97 U	21 U
2,6-Dinitrotoluene	µg/kg	1100 U	560 U	120 U	26 U
2-Chloronaphthalene	µg/kg	24 U	12 U	2.6 U	0.55 U
2-Chlorophenol	µg/kg	440 U	220 U	47 U	10 U
2-Methylnaphthalene	µg/kg	27 U	510	180	82
2-Methylphenol	µg/kg	580 U	330 J	88 J	13 U
2-Nitroaniline	µg/kg	480 U	240 U	52 U	11 U
2-Nitrophenol	µg/kg	440 U	220 U	47 U	10 U
3&4-Methylphenol	µg/kg	1100 U	23000	3900	24 U
3,3'-Dichlorobenzidine	µg/kg	960 U	890 J	100 U	22 U
3-Nitroaniline	µg/kg	850 U	430 U	91 U	19 U
4,6-Dinitro-2-methylphenol	µg/kg	490 U	250 U	53 U	11 U
4-Bromophenyl phenyl ether	µg/kg	690 U	350 U	74 U	16 U
4-Chloro-3-methylphenol	µg/kg	1100 U	560 U	120 U	26 U
4-Chloroaniline	µg/kg	900 U	450 U	97 U	21 U
4-Chlorophenyl phenyl ether	µg/kg	690 U	350 U	74 U	16 U
4-Nitroaniline	µg/kg	1400 U	690 U	150 U	32 U
4-Nitrophenol	µg/kg	900 U	450 U	97 U	21 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH142-18**	**BH143-18**	**BH143-18**	**BH144-18**
	Sample Name:	**S-38443-010418-JC-027**	**S-38443-012318-JC-061**	**S-38443-012318-JC-062**	**S-38443-012218-JC-057**
	Sample Date:	**01/04/2018**	**01/23/2018**	**01/23/2018**	**01/22/2018**
	Depth:	**8-10 ft BGS**	**10-12 ft BGS**	**10-12 ft BGS Duplicate**	**14.5-16.5 ft BGS**
Parameters	**Unit**				
Semivolatile Organic Compounds					
Acenaphthene	µg/kg	40 U	170 J	55	0.92 U
Acenaphthylene	µg/kg	19 U	9.3 U	2.0 U	0.43 U
Acetophenone	µg/kg	490 U	250 U	53 U	11 U
Anthracene	µg/kg	41 U	230	4.5 U	4.4 J
Atrazine	µg/kg	480 U	240 U	52 U	11 U
Benzaldehyde	µg/kg	640 U	320 U	92 J	15 U
Benzo(a)anthracene	µg/kg	430	440 J	35 J	11
Benzo(a)pyrene	µg/kg	34 U	490 J	3.7 UJ	15
Benzo(b)fluoranthene	µg/kg	660	650 J	57 J	21
Benzo(g,h,i)perylene	µg/kg	19 U	390 J	2.0 UJ	14
Benzo(k)fluoranthene	µg/kg	36 U	300	23 J	8.2
Biphenyl (1,1-Biphenyl)	µg/kg	250 J	160 J	34 J	43 J
bis(2-Chloroethoxy)methane	µg/kg	1200 U	590 U	130 U	27 U
bis(2-Chloroethyl)ether	µg/kg	110 U	53 U	11 U	2.4 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	1000 U	510 U	110 U	28 J
Butyl benzylphthalate (BBP)	µg/kg	530 U	270 U	57 U	12 U
Caprolactam	µg/kg	2000 U	990 U	210 U	45 U
Carbazole	µg/kg	1400 U	720 U	150 U	33 U
Chrysene	µg/kg	1600	590 J	26 J	16
Di-n-butylphthalate (DBP)	µg/kg	800 U	2400	86 U	18 U
Di-n-octyl phthalate (DnOP)	µg/kg	420 U	210 U	45 U	9.6 U
Dibenz(a,h)anthracene	µg/kg	35 U	18 U	3.8 U	0.80 U
Dibenzofuran	µg/kg	35 U	220 J	3.8 U	0.80 U
Diethyl phthalate	µg/kg	850 U	1100 J	91 U	39 U
Dimethyl phthalate	µg/kg	900 U	450 U	97 U	21 U
Fluoranthene	µg/kg	1700	1200 J	70 J	33
Fluorene	µg/kg	28 U	240	23 J	5.8 J
Hexachlorobenzene	µg/kg	110 U	56 U	12 U	2.6 U
Hexachlorobutadiene	µg/kg	300 U	150 U	32 U	6.8 U
Hexachlorocyclopentadiene	µg/kg	430 U	220 U	46 U	9.8 U
Hexachloroethane	µg/kg	480 U	240 U	51 U	11 U
Indeno(1,2,3-cd)pyrene	µg/kg	19 U	320	2.0 U	11
Isophorone	µg/kg	690 U	350 U	74 U	16 U
N-Nitrosodi-n-propylamine	µg/kg	330 U	170 U	36 U	7.7 U
N-Nitrosodiphenylamine	µg/kg	1100 U	560 U	120 U	26 U
Naphthalene	µg/kg	44 U	1700	830	280
Nitrobenzene	µg/kg	120 U	59 U	13 U	2.7 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH142-18**	**BH143-18**	**BH143-18**	**BH144-18**
	Sample Name:	**S-38443-010418-JC-027**	**S-38443-012318-JC-061**	**S-38443-012318-JC-062**	**S-38443-012218-JC-057**
	Sample Date:	**01/04/2018**	**01/23/2018**	**01/23/2018**	**01/22/2018**
	Depth:	**8-10 ft BGS**	**10-12 ft BGS**	**10-12 ft BGS Duplicate**	**14.5-16.5 ft BGS**
Parameters	**Unit**				
Semivolatile Organic Compounds					
Pentachlorophenol	µg/kg	480 U	240 U	52 U	11 U
Phenanthrene	µg/kg	1900	1300 J	82 J	42
Phenol	µg/kg	390 U	1400	260 J	8.9 U
Pyrene	µg/kg	1200	900 J	48 J	26
PCBs					
Aroclor-1016 (PCB-1016)	µg/kg	23 U	30 U	310 U	27 U
Aroclor-1221 (PCB-1221)	µg/kg	25 U	33 U	340 U	29 U
Aroclor-1232 (PCB-1232)	µg/kg	24 U	31 U	330 U	28 U
Aroclor-1242 (PCB-1242)	µg/kg	20 U	230 J	270 U	23 U
Aroclor-1248 (PCB-1248)	µg/kg	25 U	33 U	340 U	29 U
Aroclor-1254 (PCB-1254)	µg/kg	450 NJ	560	330 U	28 U
Aroclor-1260 (PCB-1260)	µg/kg	23 U	30 U	310 U	27 U
Pesticides					
4,4'-DDD	µg/kg	36 U	4.4 U	4.6 UJ	4.0 U
4,4'-DDE	µg/kg	13 U	1.6 U	1.7 U	1.5 U
4,4'-DDT	µg/kg	15 U	5.1 J	1.9 U	1.7 U
Aldrin	µg/kg	26 U	3.2 U	3.3 U	2.9 U
alpha-BHC	µg/kg	17 U	2.1 U	2.2 UJ	1.9 U
alpha-Chlordane	µg/kg	41 U	5.1 U	5.3 U	4.6 U
beta-BHC	µg/kg	42 U	5.2 U	5.4 U	4.7 U
delta-BHC	µg/kg	14 U	170 U	1.8 U	79 U
Dieldrin	µg/kg	9.7 U	1.2 U	1.3 U	1.1 U
Endosulfan I	µg/kg	14 U	1.7 U	1.8 U	1.6 U
Endosulfan II	µg/kg	19 U	2.4 U	2.5 U	2.2 U
Endosulfan sulfate	µg/kg	13 U	160 U	83 U	73 U
Endrin	µg/kg	15 U	1.9 U	1.9 U	1.7 U
Endrin aldehyde	µg/kg	97 U	240 U	130 U	110 U
Endrin ketone	µg/kg	12 U	1.5 U	1.5 U	1.3 U
gamma-BHC (lindane)	µg/kg	31 U	3.9 U	4.0 UJ	3.5 U
gamma-Chlordane	µg/kg	16 U	2.0 U	2.1 U	1.8 U
Heptachlor	µg/kg	8.4 U	1.0 U	1.1 U	0.95 U
Heptachlor epoxide	µg/kg	26 U	3.2 U	3.3 U	2.9 U
Methoxychlor	µg/kg	13 U	1.6 UJ	1.7 U	1.5 U
Toxaphene	µg/kg	400 U	49 U	51 U	45 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH142-18**	**BH143-18**	**BH143-18**	**BH144-18**
	Sample Name:	**S-38443-010418-JC-027**	**S-38443-012318-JC-061**	**S-38443-012318-JC-062**	**S-38443-012218-JC-057**
	Sample Date:	**01/04/2018**	**01/23/2018**	**01/23/2018**	**01/22/2018**
	Depth:	**8-10 ft BGS**	**10-12 ft BGS**	**10-12 ft BGS**	**14.5-16.5 ft BGS**
				Duplicate	
Parameters	**Unit**				
Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs)					
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	580	57	81 J	4.9 J
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	200 J	0.39 U	3.5 J	1.3 J
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	1400	5.2 J	7.2 J	0.23 UJ
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	610	1.0 J	3.4 J	1.4 J
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	15 J	0.099 UJ	0.30 UJ	0.12 UJ
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	47 J	0.065 U	0.019 UJ	0.27 UJ
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	130	0.074 UJ	0.24 UJ	0.13 UJ
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	810	0.070 U	0.021 UJ	0.28 UJ
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	71 J	0.069 U	0.22 UJ	0.51 J
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	510	0.063 U	0.019 UJ	0.26 UJ
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	8.0 U	0.088 U	0.32 UJ	0.17 UJ
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	430	0.17 U	0.46 UJ	0.33 U
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	56	0.16 U	0.16 UJ	0.22 UJ
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	51 J	0.074 U	0.22 UJ	0.13 UJ
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	91	0.14 U	0.13 UJ	0.18 UJ
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	180	0.43 U	0.58 U	0.62 U
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	48	0.30 UJ	0.37 U	0.36 U
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	3800 J	10 J	14 J	0.23 U
Total heptachlorodibenzofuran (HpCDF)	pg/g	1400 J	1.9 J	6.0 J	1.4 J
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	8700 J	1.6 J	1.6 J	0.28 U
Total hexachlorodibenzofuran (HxCDF)	pg/g	1400 J	1.5 J	1.3 J	2.7 J
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	7600 J	0.17 U	0.46 U	0.33 U
Total pentachlorodibenzofuran (PeCDF)	pg/g	1800 J	2.4 J	3.6 J	4.4 J
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	7900 J	0.79 J	0.58 U	0.62 U
Total tetrachlorodibenzofuran (TCDF)	pg/g	2800 J	4.7 J	3.5 J	7.2 J

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH142-18**	**BH143-18**	**BH143-18**	**BH144-18**
	Sample Name:	**S-38443-010418-JC-027**	**S-38443-012318-JC-061**	**S-38443-012318-JC-062**	**S-38443-012218-JC-057**
	Sample Date:	**01/04/2018**	**01/23/2018**	**01/23/2018**	**01/22/2018**
	Depth:	**8-10 ft BGS**	**10-12 ft BGS**	**10-12 ft BGS**	**14.5-16.5 ft BGS**
				Duplicate	
Parameters	**Unit**				
Metals					
Aluminum	mg/kg	4600	6700	9100	9000
Antimony	mg/kg	5.7	1.7	1.7	2.3
Arsenic	mg/kg	24	54	49	15
Barium	mg/kg	440	260	320	210
Beryllium	mg/kg	0.41	4.9	5.8	1.2
Cadmium	mg/kg	4.7	1.1 J	0.31 J	0.77
Calcium	mg/kg	30000	14000	13000	4300
Chromium	mg/kg	320	26	33	21
Chromium III (trivalent)	mg/kg	320	26	32	21
Chromium VI (hexavalent)	mg/kg	0.26 U	0.32 U	0.75 J	0.38 J
Cobalt	mg/kg	21	13	16	8.6
Copper	mg/kg	1700	65	59	170
Iron	mg/kg	210000	11000	14000	24000
Lead	mg/kg	350	91	34	190
Lead - coarse fraction	mg/kg	--	--	--	--
Lead - fine fraction	mg/kg	--	--	--	--
Lead - total (calculated by fine/coarse fraction)	mg/kg	--	--	--	--
Magnesium	mg/kg	6500	1200	1000	2500
Manganese	mg/kg	1400	59	66	340
Mercury	mg/kg	0.76	1.7 J	0.42 J	0.057 J
Nickel	mg/kg	860	21	25	23
Potassium	mg/kg	290	690	1000	730
Selenium	mg/kg	0.80	21	15	2.6
Silver	mg/kg	3.7	0.32 J	0.087 J	0.21
Sodium	mg/kg	290	550	810	950
Thallium	mg/kg	0.095 J	1.2	1.4	0.34
Vanadium	mg/kg	37	61	73	31
Zinc	mg/kg	1000	89	31	390

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH142-18**	**BH143-18**	**BH143-18**	**BH144-18**
	Sample Name:	**S-38443-010418-JC-027**	**S-38443-012318-JC-061**	**S-38443-012318-JC-062**	**S-38443-012218-JC-057**
	Sample Date:	**01/04/2018**	**01/23/2018**	**01/23/2018**	**01/22/2018**
	Depth:	**8-10 ft BGS**	**10-12 ft BGS**	**10-12 ft BGS**	**14.5-16.5 ft BGS**
				Duplicate	
Parameters	**Unit**				
General Chemistry					
Cyanide (total)	mg/kg	0.12 J	2.1 J	0.40 J	0.16 U

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
NJ - Tentatively identified compound, estimated concentration
PCBs - Polychlorinated Biphenyls
R - Rejected
-- - Not applicable

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH145-18**	**BH146-18**	**BH147-18**	**BH148-18**
	Sample Name:	**S-38443-012218-JC-059**	**S-38443-051718-JC-082**	**S-38443-051718-JC-077**	**S-38443-051718-JC-079**
	Sample Date:	**01/22/2018**	**05/17/2018**	**05/17/2018**	**05/17/2018**
	Depth:	**9-11 ft BGS**	**13-15 ft BGS**	**12-14 ft BGS**	**6-8 ft BGS**
Parameters	**Unit**				
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/kg	0.21 U	0.58 UJ	0.21 U	R
1,1,2,2-Tetrachloroethane	µg/kg	0.23 U	0.65 UJ	0.23 U	R
1,1,2-Trichloroethane	µg/kg	0.35 U	0.98 UJ	0.35 U	R
1,1-Dichloroethane	µg/kg	0.30 U	0.83 UJ	0.30 U	R
1,1-Dichloroethene	µg/kg	0.49 U	1.4 UJ	0.48 U	R
1,2,4-Trichlorobenzene	µg/kg	0.22 U	0.60 UJ	0.22 UJ	R
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	0.61 U	1.7 UJ	0.61 UJ	R
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	0.32 U	0.88 UJ	0.31 U	R
1,2-Dichlorobenzene	µg/kg	0.20 U	0.55 UJ	0.20 U	R
1,2-Dichloroethane	µg/kg	0.26 U	0.73 UJ	0.26 U	R
1,2-Dichloropropane	µg/kg	0.28 U	0.78 UJ	0.28 U	R
1,3-Dichlorobenzene	µg/kg	0.26 U	0.73 UJ	0.26 U	R
1,4-Dichlorobenzene	µg/kg	0.32 U	0.88 UJ	0.31 U	R
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	2.9 J	9.9 J	1.1 U	R
2-Hexanone	µg/kg	0.52 U	1.5 UJ	0.52 U	R
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	0.80 U	2.2 UJ	0.80 U	R
Acetone	µg/kg	5.4 J	81 J	6.1 U	R
Benzene	µg/kg	0.29 U	0.90 J	0.46 J	R
Bromodichloromethane	µg/kg	0.30 U	0.83 UJ	0.30 U	R
Bromoform	µg/kg	0.36 U	1.0 UJ	0.36 U	R
Bromomethane (Methyl bromide)	µg/kg	0.53 U	1.5 UJ	0.53 U	R
Carbon disulfide	µg/kg	0.19 U	0.53 UJ	0.19 U	R
Carbon tetrachloride	µg/kg	0.23 U	0.63 UJ	0.22 U	R
Chlorobenzene	µg/kg	0.30 U	0.83 UJ	0.30 U	R
Chloroethane	µg/kg	0.34 U	0.96 UJ	0.34 U	R
Chloroform (Trichloromethane)	µg/kg	0.21 U	0.58 UJ	0.21 U	R
Chloromethane (Methyl chloride)	µg/kg	0.34 U	0.96 UJ	0.34 U	R
cis-1,2-Dichloroethene	µg/kg	0.65 J	0.70 UJ	0.25 U	R
cis-1,3-Dichloropropene	µg/kg	0.23 U	0.65 UJ	0.23 U	R
Cyclohexane	µg/kg	0.19 U	1.2 J	0.43 J	R
Dibromochloromethane	µg/kg	0.27 U	0.75 UJ	0.27 U	R
Dichlorodifluoromethane (CFC-12)	µg/kg	0.32 U	0.88 UJ	0.31 U	R
Ethylbenzene	µg/kg	0.24 U	0.68 UJ	0.78 J	R
Isopropyl benzene	µg/kg	0.18 U	0.50 UJ	0.18 U	R
Methyl acetate	µg/kg	1.1 U	2.9 UJ	1.0 U	R
Methyl cyclohexane	µg/kg	0.21 U	2.0 J	0.66 J	R
Methyl tert butyl ether (MTBE)	µg/kg	0.24 U	0.68 UJ	0.24 U	R

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH145-18**	**BH146-18**	**BH147-18**	**BH148-18**
	Sample Name:	**S-38443-012218-JC-059**	**S-38443-051718-JC-082**	**S-38443-051718-JC-077**	**S-38443-051718-JC-079**
	Sample Date:	**01/22/2018**	**05/17/2018**	**05/17/2018**	**05/17/2018**
	Depth:	**9-11 ft BGS**	**13-15 ft BGS**	**12-14 ft BGS**	**6-8 ft BGS**
Parameters	**Unit**				
Volatile Organic Compounds					
Methylene chloride	µg/kg	5.6 U	0.60 UJ	0.22 U	R
Styrene	µg/kg	0.24 U	0.68 UJ	0.24 U	R
Tetrachloroethene	µg/kg	0.33 U	0.93 UJ	0.34 J	R
Toluene	µg/kg	0.31 U	1.2 J	1.8 J	R
trans-1,2-Dichloroethene	µg/kg	0.34 U	0.96 UJ	0.34 U	R
trans-1,3-Dichloropropene	µg/kg	0.19 U	0.53 UJ	0.19 U	R
Trichloroethene	µg/kg	0.64 J	1.0 UJ	0.37 U	R
Trichlorofluoromethane (CFC-11)	µg/kg	0.22 U	0.60 UJ	0.22 U	R
Trifluorotrichloroethane (CFC-113)	µg/kg	0.44 U	1.2 UJ	0.44 U	R
Vinyl chloride	µg/kg	0.25 U	0.70 UJ	0.25 U	R
Xylenes (total)	µg/kg	0.36 U	1.0 UJ	1.4 J	R
Semivolatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	11 U	19 U	11 U	15 U
2,4,5-Trichlorophenol	µg/kg	29 U	130 U	75 U	110 U
2,4,6-Trichlorophenol	µg/kg	10 U	120 U	69 U	99 U
2,4-Dichlorophenol	µg/kg	23 U	83 U	48 U	68 U
2,4-Dimethylphenol	µg/kg	23 U	75 U	43 U	62 U
2,4-Dinitrophenol	µg/kg	24 U	270 U	150 U	220 U
2,4-Dinitrotoluene	µg/kg	20 U	120 U	67 U	95 U
2,6-Dinitrotoluene	µg/kg	24 U	110 U	61 U	86 U
2-Chloronaphthalene	µg/kg	0.52 U	26 U	15 U	22 U
2-Chlorophenol	µg/kg	9.6 U	19 U	11 U	15 U
2-Methylnaphthalene	µg/kg	0.58 U	0.94 U	16	6.8 J
2-Methylphenol	µg/kg	13 U	58 U	34 U	48 U
2-Nitroaniline	µg/kg	11 U	75 U	43 U	62 U
2-Nitrophenol	µg/kg	9.7 U	24 U	14 U	20 U
3&4-Methylphenol	µg/kg	23 U	55 U	31 U	45 U
3,3'-Dichlorobenzidine	µg/kg	21 U	81 U	47 U	66 U
3-Nitroaniline	µg/kg	19 U	92 U	53 U	75 U
4,6-Dinitro-2-methylphenol	µg/kg	11 U	150 U	87 U	120 U
4-Bromophenyl phenyl ether	µg/kg	15 U	26 U	15 U	22 U
4-Chloro-3-methylphenol	µg/kg	24 U	85 U	49 U	69 U
4-Chloroaniline	µg/kg	20 U	57 U	32 U	46 U
4-Chlorophenyl phenyl ether	µg/kg	15 U	26 U	15 U	22 U
4-Nitroaniline	µg/kg	30 U	110 U	65 U	92 U
4-Nitrophenol	µg/kg	20 U	180 U	100 U	140 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH145-18**	**BH146-18**	**BH147-18**	**BH148-18**
	Sample Name:	**S-38443-012218-JC-059**	**S-38443-051718-JC-082**	**S-38443-051718-JC-077**	**S-38443-051718-JC-079**
	Sample Date:	**01/22/2018**	**05/17/2018**	**05/17/2018**	**05/17/2018**
	Depth:	**9-11 ft BGS**	**13-15 ft BGS**	**12-14 ft BGS**	**6-8 ft BGS**
Parameters	**Unit**				
Semivolatile Organic Compounds					
Acenaphthene	µg/kg	0.89 U	1.4 U	4.4 J	1.2 U
Acenaphthylene	µg/kg	0.41 U	0.66 U	0.38 U	0.54 U
Acetophenone	µg/kg	11 U	21 U	12 U	17 U
Anthracene	µg/kg	0.91 U	1.5 U	11	1.2 U
Atrazine	µg/kg	11 U	68 U	39 U	55 U
Benzaldehyde	µg/kg	14 U	43 UJ	25 UJ	35 UJ
Benzo(a)anthracene	µg/kg	0.73 U	13	42	0.97 U
Benzo(a)pyrene	µg/kg	0.75 U	10 J	36	0.99 U
Benzo(b)fluoranthene	µg/kg	0.69 U	12 J	55	0.91 U
Benzo(g,h,i)perylene	µg/kg	0.41 U	7.9 J	26	0.54 U
Benzo(k)fluoranthene	µg/kg	0.79 U	1.3 U	17	1.0 U
Biphenyl (1,1-Biphenyl)	µg/kg	4.1 U	32 U	18 U	26 U
bis(2-Chloroethoxy)methane	µg/kg	26 U	23 U	13 U	18 U
bis(2-Chloroethyl)ether	µg/kg	2.3 U	23 U	13 U	18 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	22 U	96 U	55 U	210
Butyl benzylphthalate (BBP)	µg/kg	12 U	41 U	24 U	34 U
Caprolactam	µg/kg	43 U	140 U	81 U	120 U
Carbazole	µg/kg	31 U	36 U	21 U	29 U
Chrysene	µg/kg	1.3 U	13	47	1.7 U
Di-n-butylphthalate (DBP)	µg/kg	17 U	41 U	26 J	34 U
Di-n-octyl phthalate (DnOP)	µg/kg	9.2 U	53 U	30 U	43 U
Dibenz(a,h)anthracene	µg/kg	0.77 U	1.2 U	6.2 J	1.0 U
Dibenzofuran	µg/kg	0.77 U	24 U	14 U	20 U
Diethyl phthalate	µg/kg	19 U	58 U	34 U	48 U
Dimethyl phthalate	µg/kg	20 U	26 U	15 U	22 U
Fluoranthene	µg/kg	0.64 U	24	87	0.85 U
Fluorene	µg/kg	0.62 U	1.0 U	3.8 J	0.82 U
Hexachlorobenzene	µg/kg	2.4 U	4.0 U	2.3 U	3.2 U
Hexachlorobutadiene	µg/kg	6.5 U	23 U	13 U	18 U
Hexachlorocyclopentadiene	µg/kg	R	120 U	67 U	95 U
Hexachloroethane	µg/kg	10 U	17 U	9.7 U	14 U
Indeno(1,2,3-cd)pyrene	µg/kg	0.41 U	0.66 U	19	0.54 U
Isophorone	µg/kg	15 U	23 U	13 U	18 U
N-Nitrosodi-n-propylamine	µg/kg	7.3 U	21 U	12 U	17 U
N-Nitrosodiphenylamine	µg/kg	24 U	23 U	13 U	18 U
Naphthalene	µg/kg	0.96 U	1.5 U	10	13
Nitrobenzene	µg/kg	2.6 U	24 U	14 U	20 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH145-18**	**BH146-18**	**BH147-18**	**BH148-18**
	Sample Name:	**S-38443-012218-JC-059**	**S-38443-051718-JC-082**	**S-38443-051718-JC-077**	**S-38443-051718-JC-079**
	Sample Date:	**01/22/2018**	**05/17/2018**	**05/17/2018**	**05/17/2018**
	Depth:	**9-11 ft BGS**	**13-15 ft BGS**	**12-14 ft BGS**	**6-8 ft BGS**
Parameters	**Unit**				
Semivolatile Organic Compounds					
Pentachlorophenol	µg/kg	11 U	110 U	63 U	89 U
Phenanthrene	µg/kg	0.85 U	20	47	5.8 J
Phenol	µg/kg	8.5 U	15 U	8.7 U	12 U
Pyrene	µg/kg	0.51 U	24	74	0.68 U
PCBs					
Aroclor-1016 (PCB-1016)	µg/kg	25 U	42 U	25 U	34 U
Aroclor-1221 (PCB-1221)	µg/kg	28 U	46 U	27 U	37 U
Aroclor-1232 (PCB-1232)	µg/kg	26 U	44 U	26 U	36 U
Aroclor-1242 (PCB-1242)	µg/kg	22 U	37 U	21 U	30 U
Aroclor-1248 (PCB-1248)	µg/kg	28 U	46 U	27 U	37 U
Aroclor-1254 (PCB-1254)	µg/kg	26 U	44 U	26 U	36 U
Aroclor-1260 (PCB-1260)	µg/kg	25 U	42 U	25 U	34 U
Pesticides					
4,4'-DDD	µg/kg	3.9 U	2.8 U	1.7 U	2.2 U
4,4'-DDE	µg/kg	1.4 U	2.8 U	1.7 U	2.2 U
4,4'-DDT	µg/kg	1.6 U	2.1 UJ	1.3 UJ	1.7 UJ
Aldrin	µg/kg	2.8 U	1.4 U	0.88 U	1.1 U
alpha-BHC	µg/kg	1.9 U	1.7 U	1.0 U	1.4 U
alpha-Chlordane	µg/kg	4.4 U	2.8 U	1.7 U	2.2 U
beta-BHC	µg/kg	4.6 U	3.2 U	2.0 U	2.6 U
delta-BHC	µg/kg	1.5 U	3.2 U	1.9 U	2.5 U
Dieldrin	µg/kg	1.1 U	2.1 U	1.3 U	1.6 U
Endosulfan I	µg/kg	1.5 U	2.3 U	1.4 U	1.8 U
Endosulfan II	µg/kg	2.1 U	2.8 U	1.7 U	2.2 U
Endosulfan sulfate	µg/kg	1.4 U	2.4 U	1.5 U	1.9 U
Endrin	µg/kg	1.6 U	3.6 U	2.2 U	2.8 U
Endrin aldehyde	µg/kg	2.1 U	2.5 U	1.5 U	1.9 U
Endrin ketone	µg/kg	1.3 U	1.7 U	1.0 U	1.3 U
gamma-BHC (lindane)	µg/kg	3.4 U	3.4 U	2.0 U	2.7 U
gamma-Chlordane	µg/kg	1.8 U	2.3 U	1.4 U	1.8 U
Heptachlor	µg/kg	0.91 U	3.0 U	1.8 U	2.4 U
Heptachlor epoxide	µg/kg	2.8 U	2.7 U	1.6 U	2.1 U
Methoxychlor	µg/kg	1.4 U	12 UJ	7.5 UJ	9.8 UJ
Toxaphene	µg/kg	43 U	47 U	29 U	37 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH145-18**	**BH146-18**	**BH147-18**	**BH148-18**
	Sample Name:	**S-38443-012218-JC-059**	**S-38443-051718-JC-082**	**S-38443-051718-JC-077**	**S-38443-051718-JC-079**
	Sample Date:	**01/22/2018**	**05/17/2018**	**05/17/2018**	**05/17/2018**
	Depth:	**9-11 ft BGS**	**13-15 ft BGS**	**12-14 ft BGS**	**6-8 ft BGS**
Parameters	**Unit**				
Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs)					
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	34	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	1.5 J	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	16	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	4.3 J	--	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	0.11 U	--	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	0.43 J	--	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	1.5 J	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	2.7 J	--	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	2.0 J	--	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	3.3 J	--	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	0.28 U	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	1.0 J	--	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	0.71 J	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	1.5 J	--	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	1.8 J	--	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	0.34 U	--	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	0.29 U	--	--	--
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	26 J	--	--	--
Total heptachlorodibenzofuran (HpCDF)	pg/g	7.1 J	--	--	--
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	24 J	--	--	--
Total hexachlorodibenzofuran (HxCDF)	pg/g	54 J	--	--	--
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	5.0 J	--	--	--
Total pentachlorodibenzofuran (PeCDF)	pg/g	120 J	--	--	--
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	2.1 J	--	--	--
Total tetrachlorodibenzofuran (TCDF)	pg/g	200 J	--	--	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH145-18**	**BH146-18**	**BH147-18**	**BH148-18**
	Sample Name:	**S-38443-012218-JC-059**	**S-38443-051718-JC-082**	**S-38443-051718-JC-077**	**S-38443-051718-JC-079**
	Sample Date:	**01/22/2018**	**05/17/2018**	**05/17/2018**	**05/17/2018**
	Depth:	**9-11 ft BGS**	**13-15 ft BGS**	**12-14 ft BGS**	**6-8 ft BGS**
Parameters	**Unit**				
Metals					
Aluminum	mg/kg	12000	2400 J	2500 J	9200 J
Antimony	mg/kg	0.23 J	0.20 UJ	0.12 UJ	1.1 J
Arsenic	mg/kg	12	0.74 J	5.0	56
Barium	mg/kg	93	9.6	16	160
Beryllium	mg/kg	0.69	0.23 J	0.19 J	5.1
Cadmium	mg/kg	0.24	0.070 U	0.13 J	0.21 J
Calcium	mg/kg	9400	410000	130000	5400
Chromium	mg/kg	16	2.9	8.1	19
Chromium III (trivalent)	mg/kg	16	2.1	7.6	18
Chromium VI (hexavalent)	mg/kg	1.4 U	0.86 J	0.52 J	1.2
Cobalt	mg/kg	7.4	0.77	2.6	15
Copper	mg/kg	22	3.5	7.9	45
Iron	mg/kg	23000	1200	6700	9900
Lead	mg/kg	16	2.1	4.2	19
Lead - coarse fraction	mg/kg	--	--	--	--
Lead - fine fraction	mg/kg	--	--	--	--
Lead - total (calculated by fine/coarse fraction)	mg/kg	--	--	--	--
Magnesium	mg/kg	6600	1500	51000	1100
Manganese	mg/kg	560	37 J	280 J	76 J
Mercury	mg/kg	0.024 U	0.034 U	0.019 U	0.35
Nickel	mg/kg	16	11	7.6	36
Potassium	mg/kg	1100	180 J	480	1500
Selenium	mg/kg	1.0 J	0.58 J	0.15 J	10
Silver	mg/kg	0.036 J	0.036 U	0.022 U	0.065 J
Sodium	mg/kg	58 U	83 U	140 J	270
Thallium	mg/kg	0.19 J	0.078 U	0.083 J	1.5
Vanadium	mg/kg	29	14	9.0	70
Zinc	mg/kg	76	6.5	24	31

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH145-18**	**BH146-18**	**BH147-18**	**BH148-18**
	Sample Name:	**S-38443-012218-JC-059**	**S-38443-051718-JC-082**	**S-38443-051718-JC-077**	**S-38443-051718-JC-079**
	Sample Date:	**01/22/2018**	**05/17/2018**	**05/17/2018**	**05/17/2018**
	Depth:	**9-11 ft BGS**	**13-15 ft BGS**	**12-14 ft BGS**	**6-8 ft BGS**
Parameters	**Unit**				
General Chemistry					
Cyanide (total)	mg/kg	0.12 U	1.3	0.22 U	0.29 U

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
NJ - Tentatively identified compound, estimated concentration
PCBs - Polychlorinated Biphenyls
R - Rejected
-- - Not applicable

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH149-18**	**BH150-18**	**BH151-18**	**BH152-18**
	Sample Name:	**S-38443-052918-JC-088**	**S-38443-052918-JC-086**	**S-38443-052918-JC-090**	**S-38443-052918-JC-099**
	Sample Date:	**05/29/2018**	**05/29/2018**	**05/29/2018**	**05/29/2018**
	Depth:	**10-12 ft BGS**	**13-15 ft BGS**	**10-12 ft BGS**	**9-11 ft BGS**
Parameters	**Unit**				
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/kg	0.75 UJ	0.93 U	0.75 U	0.90 U
1,1,2,2-Tetrachloroethane	µg/kg	R	1.6 U	1.3 U	R
1,1,2-Trichloroethane	µg/kg	R	1.3 U	1.0 U	1.2 U
1,1-Dichloroethane	µg/kg	0.64 UJ	0.78 U	0.64 U	0.76 U
1,1-Dichloroethene	µg/kg	0.83 UJ	1.0 U	0.83 U	1.0 U
1,2,4-Trichlorobenzene	µg/kg	R	0.65 U	0.52 U	R
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	R	4.1 U	3.3 U	R
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	R	0.87 U	0.71 U	0.85 U
1,2-Dichlorobenzene	µg/kg	R	1.3 U	1.0 U	R
1,2-Dichloroethane	µg/kg	0.71 UJ	0.87 U	0.71 U	0.85 U
1,2-Dichloropropane	µg/kg	0.78 UJ	0.96 U	0.78 U	0.94 U
1,3-Dichlorobenzene	µg/kg	R	0.92 U	0.75 U	R
1,4-Dichlorobenzene	µg/kg	R	1.0 U	0.81 U	R
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	3.3 UJ	5.8 J	6.0 J	4.3 J
2-Hexanone	µg/kg	R	4.6 U	3.7 U	4.5 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	3.4 UJ	4.2 U	3.4 U	4.1 U
Acetone	µg/kg	19 UJ	24 U	19 U	23 U
Benzene	µg/kg	0.64 UJ	0.79 U	0.64 U	0.77 U
Bromodichloromethane	µg/kg	0.62 UJ	0.77 U	0.62 U	0.75 U
Bromoform	µg/kg	R	2.7 U	2.2 U	2.6 U
Bromomethane (Methyl bromide)	µg/kg	0.91 UJ	1.1 U	0.91 U	1.1 U
Carbon disulfide	µg/kg	1.1 UJ	1.3 U	1.1 U	1.3 U
Carbon tetrachloride	µg/kg	3.0 UJ	3.7 U	3.0 U	3.6 U
Chlorobenzene	µg/kg	R	1.0 U	0.84 U	1.0 U
Chloroethane	µg/kg	1.1 UJ	1.4 U	1.1 U	1.3 U
Chloroform (Trichloromethane)	µg/kg	0.73 UJ	0.89 U	0.72 U	0.87 U
Chloromethane (Methyl chloride)	µg/kg	0.96 UJ	1.2 U	0.95 U	1.1 U
cis-1,2-Dichloroethene	µg/kg	0.60 UJ	0.73 U	0.60 U	0.72 U
cis-1,3-Dichloropropene	µg/kg	1.3 UJ	1.6 U	1.3 U	1.6 U
Cyclohexane	µg/kg	1.3 UJ	1.6 U	1.3 U	1.5 U
Dibromochloromethane	µg/kg	R	3.1 U	2.5 U	3.1 U
Dichlorodifluoromethane (CFC-12)	µg/kg	0.87 UJ	1.1 U	0.86 U	1.0 U
Ethylbenzene	µg/kg	R	1.2 U	0.96 U	1.2 U
Isopropyl benzene	µg/kg	R	0.94 U	0.76 U	0.92 U
Methyl acetate	µg/kg	3.1 UJ	3.8 U	3.1 U	3.8 U
Methyl cyclohexane	µg/kg	1.1 UJ	1.4 U	1.1 U	1.4 U
Methyl tert butyl ether (MTBE)	µg/kg	0.75 UJ	0.93 U	0.75 U	0.90 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH149-18**	**BH150-18**	**BH151-18**	**BH152-18**
	Sample Name:	**S-38443-052918-JC-088**	**S-38443-052918-JC-086**	**S-38443-052918-JC-090**	**S-38443-052918-JC-099**
	Sample Date:	**05/29/2018**	**05/29/2018**	**05/29/2018**	**05/29/2018**
	Depth:	**10-12 ft BGS**	**13-15 ft BGS**	**10-12 ft BGS**	**9-11 ft BGS**
Parameters	**Unit**				
Volatile Organic Compounds					
Methylene chloride	µg/kg	11 UJ	14 U	11 U	13 U
Styrene	µg/kg	R	1.3 U	1.1 U	1.3 U
Tetrachloroethene	µg/kg	R	0.82 U	0.67 U	0.81 U
Toluene	µg/kg	R	0.87 U	0.71 U	0.85 U
trans-1,2-Dichloroethene	µg/kg	0.43 UJ	0.52 U	0.43 U	0.51 U
trans-1,3-Dichloropropene	µg/kg	R	1.2 U	0.95 U	1.1 U
Trichloroethene	µg/kg	0.58 UJ	0.71 U	0.58 U	0.70 U
Trichlorofluoromethane (CFC-11)	µg/kg	0.99 UJ	1.2 U	0.99 U	1.2 U
Trifluorotrichloroethane (CFC-113)	µg/kg	1.2 UJ	1.4 U	1.2 U	1.4 U
Vinyl chloride	µg/kg	0.77 UJ	0.94 U	0.77 U	0.92 U
Xylenes (total)	µg/kg	R	1.8 U	1.5 U	1.7 U
Semivolatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	11 U	12 U	12 U	150 U
2,4,5-Trichlorophenol	µg/kg	79 U	85 U	81 U	1000 U
2,4,6-Trichlorophenol	µg/kg	74 U	78 U	75 U	960 U
2,4-Dichlorophenol	µg/kg	51 U	54 U	52 U	660 U
2,4-Dimethylphenol	µg/kg	46 U	49 U	47 U	600 U
2,4-Dinitrophenol	µg/kg	160 U	170 U	170 U	2100 U
2,4-Dinitrotoluene	µg/kg	71 U	76 U	73 U	930 U
2,6-Dinitrotoluene	µg/kg	64 U	69 U	66 U	840 U
2-Chloronaphthalene	µg/kg	16 U	17 U	16 U	210 U
2-Chlorophenol	µg/kg	11 U	12 U	12 U	150 U
2-Methylnaphthalene	µg/kg	46	15	33	850
2-Methylphenol	µg/kg	36 U	38 U	36 U	470 U
2-Nitroaniline	µg/kg	46 UJ	49 UJ	47 U	600 UJ
2-Nitrophenol	µg/kg	15 U	16 U	15 U	200 U
3&4-Methylphenol	µg/kg	33 U	36 U	34 U	440 U
3,3'-Dichlorobenzidine	µg/kg	49 U	53 U	50 U	650 U
3-Nitroaniline	µg/kg	56 U	60 U	57 U	740 U
4,6-Dinitro-2-methylphenol	µg/kg	92 U	98 U	94 U	1200 U
4-Bromophenyl phenyl ether	µg/kg	16 U	17 U	16 U	210 U
4-Chloro-3-methylphenol	µg/kg	52 U	55 U	53 U	680 U
4-Chloroaniline	µg/kg	34 U	37 U	35 U	450 U
4-Chlorophenyl phenyl ether	µg/kg	16 U	17 U	16 U	210 U
4-Nitroaniline	µg/kg	69 U	74 U	70 U	900 U
4-Nitrophenol	µg/kg	110 U	120 U	110 U	1400 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH149-18**	**BH150-18**	**BH151-18**	**BH152-18**
	Sample Name:	**S-38443-052918-JC-088**	**S-38443-052918-JC-086**	**S-38443-052918-JC-090**	**S-38443-052918-JC-099**
	Sample Date:	**05/29/2018**	**05/29/2018**	**05/29/2018**	**05/29/2018**
	Depth:	**10-12 ft BGS**	**13-15 ft BGS**	**10-12 ft BGS**	**9-11 ft BGS**
Parameters	**Unit**				
Semivolatile Organic Compounds					
Acenaphthene	µg/kg	0.87 U	0.93 U	7.3 J	750
Acenaphthylene	µg/kg	0.40 U	21	30	1100
Acetophenone	µg/kg	13 U	13 U	13 U	170 U
Anthracene	µg/kg	8.6	31	25	3400
Atrazine	µg/kg	41 U	44 U	42 U	540 U
Benzaldehyde	µg/kg	26 UJ	28 UJ	27 U	350 UJ
Benzo(a)anthracene	µg/kg	25	110	150	5900
Benzo(a)pyrene	µg/kg	27	120	140	4800
Benzo(b)fluoranthene	µg/kg	33	180	200	7400
Benzo(g,h,i)perylene	µg/kg	23	74	120	2500
Benzo(k)fluoranthene	µg/kg	0.78 U	63	66	2500
Biphenyl (1,1-Biphenyl)	µg/kg	20 U	21 U	20 U	260 J
bis(2-Chloroethoxy)methane	µg/kg	14 U	15 U	14 U	180 U
bis(2-Chloroethyl)ether	µg/kg	14 U	15 U	14 U	180 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	92	78 J	60 U	770 U
Butyl benzylphthalate (BBP)	µg/kg	25 U	27 U	26 U	330 U
Caprolactam	µg/kg	86 U	92 U	88 U	1100 U
Carbazole	µg/kg	22 U	24 J	22 J	1800
Chrysene	µg/kg	38	140	180	6000
Di-n-butylphthalate (DBP)	µg/kg	25 U	27 U	26 U	330 U
Di-n-octyl phthalate (DnOP)	µg/kg	32 U	34 U	33 U	420 U
Dibenz(a,h)anthracene	µg/kg	0.76 U	23	28	670
Dibenzofuran	µg/kg	15 U	16 U	15 U	1700
Diethyl phthalate	µg/kg	36 U	38 U	36 U	470 U
Dimethyl phthalate	µg/kg	16 U	17 U	16 U	210 U
Fluoranthene	µg/kg	46	280	250	15000
Fluorene	µg/kg	0.61 U	16	0.62 U	2600
Hexachlorobenzene	µg/kg	2.4 U	2.6 U	2.5 U	32 U
Hexachlorobutadiene	µg/kg	14 U	15 U	14 U	180 U
Hexachlorocyclopentadiene	µg/kg	71 U	76 U	73 U	930 U
Hexachloroethane	µg/kg	10 U	11 U	11 U	140 U
Indeno(1,2,3-cd)pyrene	µg/kg	0.40 U	68	94	2300
Isophorone	µg/kg	14 UJ	15 UJ	14 UJ	180 UJ
N-Nitrosodi-n-propylamine	µg/kg	13 UJ	13 UJ	13 UJ	170 UJ
N-Nitrosodiphenylamine	µg/kg	14 U	15 U	14 U	180 U
Naphthalene	µg/kg	24	1.0 U	27	870
Nitrobenzene	µg/kg	15 UJ	16 UJ	15 UJ	200 UJ

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH149-18**	**BH150-18**	**BH151-18**	**BH152-18**
	Sample Name:	**S-38443-052918-JC-088**	**S-38443-052918-JC-086**	**S-38443-052918-JC-090**	**S-38443-052918-JC-099**
	Sample Date:	**05/29/2018**	**05/29/2018**	**05/29/2018**	**05/29/2018**
	Depth:	**10-12 ft BGS**	**13-15 ft BGS**	**10-12 ft BGS**	**9-11 ft BGS**
Parameters	**Unit**				
Semivolatile Organic Compounds					
Pentachlorophenol	µg/kg	67 U	71 U	68 U	870 U
Phenanthrene	µg/kg	54	150	130	15000
Phenol	µg/kg	9.2 U	9.8 U	9.4 U	120 U
Pyrene	µg/kg	47	240	260	11000
PCBs					
Aroclor-1016 (PCB-1016)	µg/kg	25 U	26 U	25 U	27 U
Aroclor-1221 (PCB-1221)	µg/kg	28 U	29 U	27 U	29 U
Aroclor-1232 (PCB-1232)	µg/kg	27 U	28 U	26 U	28 U
Aroclor-1242 (PCB-1242)	µg/kg	22 U	23 U	22 U	23 U
Aroclor-1248 (PCB-1248)	µg/kg	28 U	29 U	27 U	29 U
Aroclor-1254 (PCB-1254)	µg/kg	37 J	210	31 J	70
Aroclor-1260 (PCB-1260)	µg/kg	25 U	26 U	25 U	27 U
Pesticides					
4,4'-DDD	µg/kg	1.7 U	1.8 U	1.7 U	2.8 J
4,4'-DDE	µg/kg	1.7 U	1.8 U	1.7 U	2.1 J
4,4'-DDT	µg/kg	1.3 U	3.7 NJ	1.3 U	1.4 U
Aldrin	µg/kg	0.89 U	0.93 U	0.88 U	0.93 U
alpha-BHC	µg/kg	1.1 U	1.1 U	1.0 U	1.1 U
alpha-Chlordane	µg/kg	1.7 U	1.8 U	1.7 U	4.0 J
beta-BHC	µg/kg	2.0 U	2.1 U	2.0 U	2.1 U
delta-BHC	µg/kg	2.0 U	2.0 U	1.9 U	100 U
Dieldrin	µg/kg	1.3 U	1.3 U	1.3 U	1.3 U
Endosulfan I	µg/kg	1.4 U	1.4 U	1.4 U	1.5 U
Endosulfan II	µg/kg	1.7 U	1.8 U	1.7 U	1.8 U
Endosulfan sulfate	µg/kg	1.5 U	1.5 U	1.5 U	78 U
Endrin	µg/kg	2.2 U	2.3 U	2.2 U	2.3 U
Endrin aldehyde	µg/kg	1.5 U	1.9 J	1.5 U	79 U
Endrin ketone	µg/kg	1.0 U	1.1 U	1.0 U	1.1 U
gamma-BHC (lindane)	µg/kg	2.1 U	2.2 U	2.0 U	2.2 U
gamma-Chlordane	µg/kg	1.4 U	1.5 U	1.4 U	3.6 J
Heptachlor	µg/kg	1.8 U	1.9 U	1.8 U	1.9 U
Heptachlor epoxide	µg/kg	1.7 U	1.7 U	1.6 U	2.0 J
Methoxychlor	µg/kg	7.6 UJ	7.9 UJ	7.5 UJ	8.0 UJ
Toxaphene	µg/kg	29 U	30 U	29 U	30 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH149-18**	**BH150-18**	**BH151-18**	**BH152-18**
	Sample Name:	**S-38443-052918-JC-088**	**S-38443-052918-JC-086**	**S-38443-052918-JC-090**	**S-38443-052918-JC-099**
	Sample Date:	**05/29/2018**	**05/29/2018**	**05/29/2018**	**05/29/2018**
	Depth:	**10-12 ft BGS**	**13-15 ft BGS**	**10-12 ft BGS**	**9-11 ft BGS**
Parameters	**Unit**				
Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs)					
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	--	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	--	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--	--
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--	--
Total heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--	--
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--	--
Total hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--	--
Total pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--	--
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--	--
Total tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH149-18**	**BH150-18**	**BH151-18**	**BH152-18**
	Sample Name:	**S-38443-052918-JC-088**	**S-38443-052918-JC-086**	**S-38443-052918-JC-090**	**S-38443-052918-JC-099**
	Sample Date:	**05/29/2018**	**05/29/2018**	**05/29/2018**	**05/29/2018**
	Depth:	**10-12 ft BGS**	**13-15 ft BGS**	**10-12 ft BGS**	**9-11 ft BGS**
Parameters	**Unit**				
Metals					
Aluminum	mg/kg	5000	10000	6700	9600
Antimony	mg/kg	0.34 J	0.22 J	0.24 J	5.0 J
Arsenic	mg/kg	15	9.0	8.6	8.7
Barium	mg/kg	110	79	74	260
Beryllium	mg/kg	0.96	0.64	0.49	0.38
Cadmium	mg/kg	0.15 J	0.19 J	0.26	15
Calcium	mg/kg	66000	30000	31000	100000
Chromium	mg/kg	9.3	15	12	35
Chromium III (trivalent)	mg/kg	8.5	15	12	35
Chromium VI (hexavalent)	mg/kg	0.85 J	1.5 U	1.4 U	0.31 J
Cobalt	mg/kg	4.3	7.6	6.5	6.1
Copper	mg/kg	19	20	19	96
Iron	mg/kg	7900	19000	14000	15000
Lead	mg/kg	12	30	40	550
Lead - coarse fraction	mg/kg	--	--	--	--
Lead - fine fraction	mg/kg	--	--	--	--
Lead - total (calculated by fine/coarse fraction)	mg/kg	--	--	--	--
Magnesium	mg/kg	28000	11000	13000	34000
Manganese	mg/kg	160	350	620	470
Mercury	mg/kg	0.067 J	0.043 J	0.21	0.61
Nickel	mg/kg	11	14	12	28
Potassium	mg/kg	880	1000	870	1200
Selenium	mg/kg	1.2	1.4	0.96 J	1.4
Silver	mg/kg	0.037 J	0.054 J	0.081 J	1.9
Sodium	mg/kg	150 J	67 J	59 J	620
Thallium	mg/kg	0.38	0.28	0.16 J	0.16 J
Vanadium	mg/kg	22	26	20	19
Zinc	mg/kg	28	57	84	1600

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH149-18**	**BH150-18**	**BH151-18**	**BH152-18**
	Sample Name:	**S-38443-052918-JC-088**	**S-38443-052918-JC-086**	**S-38443-052918-JC-090**	**S-38443-052918-JC-099**
	Sample Date:	**05/29/2018**	**05/29/2018**	**05/29/2018**	**05/29/2018**
	Depth:	**10-12 ft BGS**	**13-15 ft BGS**	**10-12 ft BGS**	**9-11 ft BGS**
Parameters	**Unit**				
General Chemistry					
Cyanide (total)	mg/kg	0.20 U	0.22 U	0.22 J	0.24 J

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
NJ - Tentatively identified compound, estimated concentration
PCBs - Polychlorinated Biphenyls
R - Rejected
-- - Not applicable

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH153-18**	**BH154-18**	**BH155-18**	**BH155-18**
	Sample Name:	**S-38443-052918-JC-092**	**S-38443-052918-JC-094**	**S-38443-052918-JC-096**	**S-38443-052918-JC-097**
	Sample Date:	**05/29/2018**	**05/29/2018**	**05/29/2018**	**05/29/2018**
	Depth:	**13-15 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**
					Duplicate
Parameters	**Unit**				
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/kg	0.87 U	0.66 U	0.94 U	0.91 U
1,1,2,2-Tetrachloroethane	µg/kg	1.5 U	1.1 U	1.6 U	1.6 U
1,1,2-Trichloroethane	µg/kg	1.2 U	0.91 U	1.3 U	1.3 U
1,1-Dichloroethane	µg/kg	0.73 U	0.56 U	0.79 U	0.77 U
1,1-Dichloroethene	µg/kg	0.95 U	0.73 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/kg	0.60 U	0.46 U	0.65 U	0.63 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	3.8 U	2.9 U	4.1 U	4.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	0.81 U	0.62 U	0.88 U	0.85 U
1,2-Dichlorobenzene	µg/kg	1.2 U	0.89 U	1.3 U	1.2 U
1,2-Dichloroethane	µg/kg	0.82 U	0.62 U	0.88 U	0.85 U
1,2-Dichloropropane	µg/kg	0.90 U	0.68 U	0.97 U	0.94 U
1,3-Dichlorobenzene	µg/kg	0.86 U	0.66 U	0.93 U	0.90 U
1,4-Dichlorobenzene	µg/kg	0.93 U	0.71 U	1.0 U	0.97 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	11 J	2.9 U	7.8 J	5.1 J
2-Hexanone	µg/kg	4.3 U	3.3 U	4.7 U	4.5 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	3.9 U	3.0 U	4.2 U	4.1 U
Acetone	µg/kg	22 U	17 U	27 J	23 U
Benzene	µg/kg	0.74 U	0.56 U	0.80 U	0.77 U
Bromodichloromethane	µg/kg	0.72 U	0.55 U	0.78 U	0.75 U
Bromoform	µg/kg	2.5 U	1.9 U	2.7 U	2.7 U
Bromomethane (Methyl bromide)	µg/kg	1.0 U	0.79 U	1.1 U	1.1 U
Carbon disulfide	µg/kg	1.2 U	0.93 U	1.3 U	1.3 U
Carbon tetrachloride	µg/kg	3.4 U	2.6 U	3.7 U	3.6 U
Chlorobenzene	µg/kg	0.97 U	0.74 U	1.0 U	1.0 U
Chloroethane	µg/kg	1.3 U	0.98 U	1.4 U	1.3 U
Chloroform (Trichloromethane)	µg/kg	0.83 U	0.63 U	0.90 U	0.87 U
Chloromethane (Methyl chloride)	µg/kg	1.1 U	0.84 U	1.2 U	1.2 U
cis-1,2-Dichloroethene	µg/kg	0.69 U	0.52 U	0.74 U	0.72 U
cis-1,3-Dichloropropene	µg/kg	1.5 U	1.2 U	1.6 U	1.6 U
Cyclohexane	µg/kg	61	1.1 U	1.6 U	1.5 U
Dibromochloromethane	µg/kg	2.9 U	2.2 U	3.2 U	3.1 U
Dichlorodifluoromethane (CFC-12)	µg/kg	1.0 U	0.76 U	1.1 U	1.0 U
Ethylbenzene	µg/kg	1.1 U	0.84 U	1.2 U	1.2 U
Isopropyl benzene	µg/kg	0.88 U	0.67 U	0.95 U	0.92 U
Methyl acetate	µg/kg	3.6 U	2.7 U	3.9 U	3.8 U
Methyl cyclohexane	µg/kg	23	0.99 U	1.4 U	1.4 U
Methyl tert butyl ether (MTBE)	µg/kg	0.87 U	0.66 U	0.94 U	0.91 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH153-18**	**BH154-18**	**BH155-18**	**BH155-18**
	Sample Name:	**S-38443-052918-JC-092**	**S-38443-052918-JC-094**	**S-38443-052918-JC-096**	**S-38443-052918-JC-097**
	Sample Date:	**05/29/2018**	**05/29/2018**	**05/29/2018**	**05/29/2018**
	Depth:	**13-15 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**
					Duplicate
Parameters	**Unit**				
Volatile Organic Compounds					
Methylene chloride	µg/kg	13 U	9.6 U	14 U	13 U
Styrene	µg/kg	1.2 U	0.93 U	1.3 U	1.3 U
Tetrachloroethene	µg/kg	0.77 U	0.59 U	0.83 U	0.81 U
Toluene	µg/kg	0.92 J	0.62 U	0.88 U	0.85 U
trans-1,2-Dichloroethene	µg/kg	0.49 U	0.37 U	0.53 U	0.51 U
trans-1,3-Dichloropropene	µg/kg	1.1 U	0.83 U	1.2 U	1.1 U
Trichloroethene	µg/kg	0.67 U	0.51 U	0.72 U	0.70 U
Trichlorofluoromethane (CFC-11)	µg/kg	1.1 U	0.87 U	1.2 U	1.2 U
Trifluorotrichloroethane (CFC-113)	µg/kg	1.4 U	1.0 U	1.5 U	1.4 U
Vinyl chloride	µg/kg	0.88 U	0.67 U	0.96 U	0.92 U
Xylenes (total)	µg/kg	1.7 U	1.3 U	1.8 U	1.8 U
Semivolatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	28 U	11 U	12 U	12 U
2,4,5-Trichlorophenol	µg/kg	200 U	75 U	80 U	80 U
2,4,6-Trichlorophenol	µg/kg	180 U	70 U	74 U	74 U
2,4-Dichlorophenol	µg/kg	130 U	48 U	51 U	51 U
2,4-Dimethylphenol	µg/kg	110 U	43 U	46 U	47 U
2,4-Dinitrophenol	µg/kg	400 U	150 U	160 U	170 U
2,4-Dinitrotoluene	µg/kg	180 U	67 U	72 U	72 U
2,6-Dinitrotoluene	µg/kg	160 U	61 U	65 U	65 U
2-Chloronaphthalene	µg/kg	40 U	15 U	16 U	16 U
2-Chlorophenol	µg/kg	28 U	11 U	12 U	12 U
2-Methylnaphthalene	µg/kg	10 J	20	0.58 U	5.9 J
2-Methylphenol	µg/kg	88 U	34 U	36 U	36 U
2-Nitroaniline	µg/kg	110 UJ	43 U	46 U	47 U
2-Nitrophenol	µg/kg	37 U	14 U	15 U	15 U
3&4-Methylphenol	µg/kg	82 U	32 U	34 U	34 U
3,3'-Dichlorobenzidine	µg/kg	120 U	47 U	50 U	50 U
3-Nitroaniline	µg/kg	140 U	53 U	57 U	57 U
4,6-Dinitro-2-methylphenol	µg/kg	230 U	87 U	93 U	93 U
4-Bromophenyl phenyl ether	µg/kg	40 U	15 U	16 U	16 U
4-Chloro-3-methylphenol	µg/kg	130 U	49 U	52 U	52 U
4-Chloroaniline	µg/kg	85 U	33 U	35 U	35 U
4-Chlorophenyl phenyl ether	µg/kg	40 U	15 U	16 U	16 U
4-Nitroaniline	µg/kg	170 U	65 U	70 U	70 U
4-Nitrophenol	µg/kg	270 U	100 U	110 U	110 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH153-18**	**BH154-18**	**BH155-18**	**BH155-18**
	Sample Name:	**S-38443-052918-JC-092**	**S-38443-052918-JC-094**	**S-38443-052918-JC-096**	**S-38443-052918-JC-097**
	Sample Date:	**05/29/2018**	**05/29/2018**	**05/29/2018**	**05/29/2018**
	Depth:	**13-15 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**
					Duplicate
Parameters	**Unit**				
Semivolatile Organic Compounds					
Acenaphthene	µg/kg	64	0.83 U	0.88 U	0.88 U
Acenaphthylene	µg/kg	1.0 U	0.38 U	0.41 U	4.9 J
Acetophenone	µg/kg	31 U	12 U	13 U	13 U
Anthracene	µg/kg	120	6.2 J	0.91 U	4.8 J
Atrazine	µg/kg	100 U	39 U	42 U	42 U
Benzaldehyde	µg/kg	65 UJ	25 U	27 U	27 U
Benzo(a)anthracene	µg/kg	280	30	0.73 UJ	28 J
Benzo(a)pyrene	µg/kg	270	30	11 J	35 J
Benzo(b)fluoranthene	µg/kg	410	47	15 J	46 J
Benzo(g,h,i)perylene	µg/kg	160	29	0.41 UJ	24 J
Benzo(k)fluoranthene	µg/kg	150	0.74 U	0.79 UJ	17 J
Biphenyl (1,1-Biphenyl)	µg/kg	48 U	18 U	20 U	20 U
bis(2-Chloroethoxy)methane	µg/kg	34 U	13 U	14 U	14 U
bis(2-Chloroethyl)ether	µg/kg	34 U	13 U	14 U	14 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	220	55 U	59 U	73 J
Butyl benzylphthalate (BBP)	µg/kg	63 U	24 U	26 U	26 U
Caprolactam	µg/kg	210 U	82 U	87 U	87 U
Carbazole	µg/kg	72 J	21 U	22 U	22 U
Chrysene	µg/kg	340	40	1.3 UJ	35 J
Di-n-butylphthalate (DBP)	µg/kg	63 U	24 U	26 U	26 U
Di-n-octyl phthalate (DnOP)	µg/kg	80 U	30 U	33 U	33 U
Dibenz(a,h)anthracene	µg/kg	1.9 U	0.72 U	0.77 U	0.77 U
Dibenzofuran	µg/kg	37 U	14 U	15 U	15 U
Diethyl phthalate	µg/kg	88 U	34 U	36 U	36 U
Dimethyl phthalate	µg/kg	40 U	15 U	16 U	16 U
Fluoranthene	µg/kg	700	56	19 J	58 J
Fluorene	µg/kg	74	0.58 U	0.62 U	0.62 U
Hexachlorobenzene	µg/kg	6.0 U	2.3 U	2.4 U	2.4 U
Hexachlorobutadiene	µg/kg	34 U	13 U	14 U	14 U
Hexachlorocyclopentadiene	µg/kg	180 U	67 U	72 U	72 U
Hexachloroethane	µg/kg	26 U	9.8 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	µg/kg	150	26	0.41 UJ	24 J
Isophorone	µg/kg	34 UJ	13 UJ	14 UJ	14 UJ
N-Nitrosodi-n-propylamine	µg/kg	31 UJ	12 UJ	13 UJ	13 UJ
N-Nitrosodiphenylamine	µg/kg	34 U	13 U	14 U	14 U
Naphthalene	µg/kg	2.3 U	19	0.95 U	5.3 J
Nitrobenzene	µg/kg	37 UJ	14 UJ	15 UJ	15 UJ

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH153-18**	**BH154-18**	**BH155-18**	**BH155-18**
	Sample Name:	**S-38443-052918-JC-092**	**S-38443-052918-JC-094**	**S-38443-052918-JC-096**	**S-38443-052918-JC-097**
	Sample Date:	**05/29/2018**	**05/29/2018**	**05/29/2018**	**05/29/2018**
	Depth:	**13-15 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**
					Duplicate
Parameters	**Unit**				
Semivolatile Organic Compounds					
Pentachlorophenol	µg/kg	160 U	63 U	67 U	67 U
Phenanthrene	µg/kg	510	45	7.9 J	25 J
Phenol	µg/kg	23 U	8.7 U	9.3 U	9.3 U
Pyrene	µg/kg	600	53	17 J	50 J
PCBs					
Aroclor-1016 (PCB-1016)	µg/kg	130 U	23 U	26 U	25 U
Aroclor-1221 (PCB-1221)	µg/kg	140 U	25 U	28 U	28 U
Aroclor-1232 (PCB-1232)	µg/kg	130 U	24 U	27 U	26 U
Aroclor-1242 (PCB-1242)	µg/kg	980	20 U	23 U	22 U
Aroclor-1248 (PCB-1248)	µg/kg	140 U	25 U	28 U	28 U
Aroclor-1254 (PCB-1254)	µg/kg	1300	24 U	27 U	26 U
Aroclor-1260 (PCB-1260)	µg/kg	130 U	23 U	26 U	25 U
Pesticides					
4,4'-DDD	µg/kg	1.7 U	7.8 U	1.8 U	1.7 U
4,4'-DDE	µg/kg	28	8.0 U	1.8 U	1.7 U
4,4'-DDT	µg/kg	1.3 U	6.0 U	1.3 U	1.3 U
Aldrin	µg/kg	0.90 U	4.1 U	0.91 U	0.88 U
alpha-BHC	µg/kg	1.1 U	4.8 U	1.1 U	1.0 U
alpha-Chlordane	µg/kg	36	7.9 U	1.8 U	1.7 U
beta-BHC	µg/kg	2.0 U	9.2 U	2.0 U	2.0 U
delta-BHC	µg/kg	99 U	8.9 U	2.0 U	1.9 U
Dieldrin	µg/kg	2.0 NJ	5.8 U	1.3 U	1.3 U
Endosulfan I	µg/kg	1.4 U	6.4 U	1.4 U	1.4 U
Endosulfan II	µg/kg	4.3 NJ	7.8 U	1.8 U	1.7 U
Endosulfan sulfate	µg/kg	75 U	6.8 U	1.5 U	1.5 U
Endrin	µg/kg	2.2 U	10 U	2.3 U	2.2 U
Endrin aldehyde	µg/kg	76 U	6.9 U	1.6 U	1.5 U
Endrin ketone	µg/kg	1.0 U	4.7 U	1.1 U	1.0 U
gamma-BHC (lindane)	µg/kg	3.8 J	9.5 U	2.1 U	2.1 U
gamma-Chlordane	µg/kg	30 J	6.5 U	1.5 U	1.4 U
Heptachlor	µg/kg	1.8 U	8.4 U	1.9 U	1.8 U
Heptachlor epoxide	µg/kg	8.0 NJ	7.6 U	1.7 U	1.7 U
Methoxychlor	µg/kg	7.7 UJ	35 UJ	7.8 UJ	7.5 UJ
Toxaphene	µg/kg	29 U	130 U	30 U	29 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH153-18**	**BH154-18**	**BH155-18**	**BH155-18**
	Sample Name:	**S-38443-052918-JC-092**	**S-38443-052918-JC-094**	**S-38443-052918-JC-096**	**S-38443-052918-JC-097**
	Sample Date:	**05/29/2018**	**05/29/2018**	**05/29/2018**	**05/29/2018**
	Depth:	**13-15 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**
					Duplicate
Parameters	**Unit**				
Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs)					
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	--	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	--	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--	--
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--	--
Total heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--	--
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--	--
Total hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--	--
Total pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--	--
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--	--
Total tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH153-18**	**BH154-18**	**BH155-18**	**BH155-18**
	Sample Name:	**S-38443-052918-JC-092**	**S-38443-052918-JC-094**	**S-38443-052918-JC-096**	**S-38443-052918-JC-097**
	Sample Date:	**05/29/2018**	**05/29/2018**	**05/29/2018**	**05/29/2018**
	Depth:	**13-15 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**
					Duplicate
Parameters	**Unit**				
Metals					
Aluminum	mg/kg	8700	3400	9200	8900
Antimony	mg/kg	0.16 J	0.19 J	0.16 J	0.19 J
Arsenic	mg/kg	7.6	7.7	8.1	7.6
Barium	mg/kg	92	50	78	81
Beryllium	mg/kg	0.50	0.24	0.51	0.52
Cadmium	mg/kg	0.22	0.25	0.21	0.22
Calcium	mg/kg	45000	110000	24000	20000
Chromium	mg/kg	12	7.7	14	15
Chromium III (trivalent)	mg/kg	12	7.7	13	15
Chromium VI (hexavalent)	mg/kg	0.27 U	0.26 U	1.0	0.28 U
Cobalt	mg/kg	5.5	3.4	5.8	5.4
Copper	mg/kg	21	11	14	15
Iron	mg/kg	15000	9800	16000	16000
Lead	mg/kg	68	34	12	16
Lead - coarse fraction	mg/kg	--	--	--	--
Lead - fine fraction	mg/kg	--	--	--	--
Lead - total (calculated by fine/coarse fraction)	mg/kg	--	--	--	--
Magnesium	mg/kg	19000	49000	10000	11000
Manganese	mg/kg	430	370	250	310
Mercury	mg/kg	0.060 J	0.034 J	0.027 J	0.025 J
Nickel	mg/kg	13	9.0	16	15
Potassium	mg/kg	770	470	790	810
Selenium	mg/kg	0.51 J	0.38 J	0.45 J	0.45 J
Silver	mg/kg	0.043 J	0.046 J	0.037 J	0.063 J
Sodium	mg/kg	94 J	120 J	61 J	66 J
Thallium	mg/kg	0.15 J	0.10 J	0.16 J	0.16 J
Vanadium	mg/kg	21	10	22	23
Zinc	mg/kg	57	71	47	48

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH153-18**	**BH154-18**	**BH155-18**	**BH155-18**
	Sample Name:	**S-38443-052918-JC-092**	**S-38443-052918-JC-094**	**S-38443-052918-JC-096**	**S-38443-052918-JC-097**
	Sample Date:	**05/29/2018**	**05/29/2018**	**05/29/2018**	**05/29/2018**
	Depth:	**13-15 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**
					Duplicate
Parameters	**Unit**				
General Chemistry					
Cyanide (total)	mg/kg	0.27 J	0.19 U	0.20 U	0.25 U

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
NJ - Tentatively identified compound, estimated concentration
PCBs - Polychlorinated Biphenyls
R - Rejected
-- - Not applicable

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH156-18**	**BH157-18**	**BH158-17**	**BH159-17**
	Sample Name:	**S-38443-051618-JC-074**	**S-38443-051718-JC-083**	**S-38443-120617-JC-001**	**S-38443-121817-JC-010**
	Sample Date:	**05/16/2018**	**05/17/2018**	**12/06/2017**	**12/18/2017**
	Depth:	**13-15 ft BGS**	**12-14 ft BGS**	**3-5 ft BGS**	**13-15 ft BGS**
Parameters	**Unit**				
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/kg	0.25 U	0.20 U	--	--
1,1,2,2-Tetrachloroethane	µg/kg	0.28 U	0.23 U	--	--
1,1,2-Trichloroethane	µg/kg	0.43 U	0.34 U	--	--
1,1-Dichloroethane	µg/kg	0.36 U	0.29 U	--	--
1,1-Dichloroethene	µg/kg	0.59 U	0.48 U	--	--
1,2,4-Trichlorobenzene	µg/kg	0.26 U	0.21 UJ	--	--
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	0.74 U	0.60 UJ	--	--
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	0.38 U	0.31 U	--	--
1,2-Dichlorobenzene	µg/kg	0.24 U	0.19 U	--	--
1,2-Dichloroethane	µg/kg	0.32 U	0.26 U	--	--
1,2-Dichloropropane	µg/kg	0.34 U	0.27 U	--	--
1,3-Dichlorobenzene	µg/kg	0.32 U	0.26 U	--	--
1,4-Dichlorobenzene	µg/kg	0.38 U	0.31 U	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	1.4 U	1.1 U	--	--
2-Hexanone	µg/kg	0.63 U	0.51 U	--	--
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	0.97 U	0.79 U	--	--
Acetone	µg/kg	7.9 U	2.7 U	--	--
Benzene	µg/kg	0.35 U	0.33 J	--	--
Bromodichloromethane	µg/kg	0.36 U	0.29 U	--	--
Bromoform	µg/kg	0.44 U	0.35 U	--	--
Bromomethane (Methyl bromide)	µg/kg	0.65 U	0.52 U	--	--
Carbon disulfide	µg/kg	0.23 U	0.19 U	--	--
Carbon tetrachloride	µg/kg	0.27 U	0.22 U	--	--
Chlorobenzene	µg/kg	0.36 U	0.29 U	--	--
Chloroethane	µg/kg	0.42 U	0.34 U	--	--
Chloroform (Trichloromethane)	µg/kg	0.25 U	0.20 U	--	--
Chloromethane (Methyl chloride)	µg/kg	0.42 U	0.34 U	--	--
cis-1,2-Dichloroethene	µg/kg	0.31 U	0.25 U	--	--
cis-1,3-Dichloropropene	µg/kg	0.28 U	0.23 U	--	--
Cyclohexane	µg/kg	0.23 U	0.43 J	--	--
Dibromochloromethane	µg/kg	0.33 U	0.26 U	--	--
Dichlorodifluoromethane (CFC-12)	µg/kg	0.38 U	0.31 U	--	--
Ethylbenzene	µg/kg	0.30 U	0.38 J	--	--
Isopropyl benzene	µg/kg	0.22 U	0.18 U	--	--
Methyl acetate	µg/kg	1.3 U	1.0 U	--	--
Methyl cyclohexane	µg/kg	0.25 U	0.55 J	--	--
Methyl tert butyl ether (MTBE)	µg/kg	0.30 U	0.24 U	--	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH156-18**	**BH157-18**	**BH158-17**	**BH159-17**
	Sample Name:	**S-38443-051618-JC-074**	**S-38443-051718-JC-083**	**S-38443-120617-JC-001**	**S-38443-121817-JC-010**
	Sample Date:	**05/16/2018**	**05/17/2018**	**12/06/2017**	**12/18/2017**
	Depth:	**13-15 ft BGS**	**12-14 ft BGS**	**3-5 ft BGS**	**13-15 ft BGS**
Parameters	**Unit**				
Volatile Organic Compounds					
Methylene chloride	µg/kg	0.26 U	0.21 U	--	--
Styrene	µg/kg	0.30 U	0.24 U	--	--
Tetrachloroethene	µg/kg	0.40 U	0.33 U	--	--
Toluene	µg/kg	0.37 U	1.1 J	--	--
trans-1,2-Dichloroethene	µg/kg	0.42 U	0.34 U	--	--
trans-1,3-Dichloropropene	µg/kg	0.23 U	0.19 U	--	--
Trichloroethene	µg/kg	0.45 U	0.36 U	--	--
Trichlorofluoromethane (CFC-11)	µg/kg	0.26 U	0.21 U	--	--
Trifluorotrichloroethane (CFC-113)	µg/kg	0.54 U	0.43 U	--	--
Vinyl chloride	µg/kg	0.31 U	0.25 U	--	--
Xylenes (total)	µg/kg	0.44 U	0.68 J	--	--
Semivolatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	13 U	11 U	--	--
2,4,5-Trichlorophenol	µg/kg	88 U	73 U	--	--
2,4,6-Trichlorophenol	µg/kg	81 U	68 U	--	--
2,4-Dichlorophenol	µg/kg	56 U	47 U	--	--
2,4-Dimethylphenol	µg/kg	51 U	43 U	--	--
2,4-Dinitrophenol	µg/kg	180 U	150 U	--	--
2,4-Dinitrotoluene	µg/kg	79 U	66 U	--	--
2,6-Dinitrotoluene	µg/kg	71 U	60 U	--	--
2-Chloronaphthalene	µg/kg	18 U	15 U	--	--
2-Chlorophenol	µg/kg	13 U	11 U	--	--
2-Methylnaphthalene	µg/kg	26	0.53 U	--	--
2-Methylphenol	µg/kg	39 U	33 U	--	--
2-Nitroaniline	µg/kg	51 U	43 U	--	--
2-Nitrophenol	µg/kg	17 U	14 U	--	--
3&4-Methylphenol	µg/kg	37 U	31 U	--	--
3,3'-Dichlorobenzidine	µg/kg	55 U	46 U	--	--
3-Nitroaniline	µg/kg	62 U	52 U	--	--
4,6-Dinitro-2-methylphenol	µg/kg	100 U	85 U	--	--
4-Bromophenyl phenyl ether	µg/kg	18 U	15 U	--	--
4-Chloro-3-methylphenol	µg/kg	57 U	48 U	--	--
4-Chloroaniline	µg/kg	38 U	32 U	--	--
4-Chlorophenyl phenyl ether	µg/kg	18 U	15 U	--	--
4-Nitroaniline	µg/kg	76 U	64 U	--	--
4-Nitrophenol	µg/kg	120 U	100 U	--	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH156-18**	**BH157-18**	**BH158-17**	**BH159-17**
	Sample Name:	**S-38443-051618-JC-074**	**S-38443-051718-JC-083**	**S-38443-120617-JC-001**	**S-38443-121817-JC-010**
	Sample Date:	**05/16/2018**	**05/17/2018**	**12/06/2017**	**12/18/2017**
	Depth:	**13-15 ft BGS**	**12-14 ft BGS**	**3-5 ft BGS**	**13-15 ft BGS**
Parameters	**Unit**				
Semivolatile Organic Compounds					
Acenaphthene	µg/kg	0.97 U	10	--	--
Acenaphthylene	µg/kg	9.7	0.37 U	--	--
Acetophenone	µg/kg	14 U	12 U	--	--
Anthracene	µg/kg	15	31	--	--
Atrazine	µg/kg	46 U	38 U	--	--
Benzaldehyde	µg/kg	29 U	24 UJ	--	--
Benzo(a)anthracene	µg/kg	57	130	--	--
Benzo(a)pyrene	µg/kg	52	120	--	--
Benzo(b)fluoranthene	µg/kg	76	150	--	--
Benzo(g,h,i)perylene	µg/kg	42	84	--	--
Benzo(k)fluoranthene	µg/kg	32	67	--	--
Biphenyl (1,1-Biphenyl)	µg/kg	22 U	18 U	--	--
bis(2-Chloroethoxy)methane	µg/kg	15 U	13 U	--	--
bis(2-Chloroethyl)ether	µg/kg	15 U	13 U	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	65 U	54 U	--	--
Butyl benzylphthalate (BBP)	µg/kg	28 U	23 U	--	--
Caprolactam	µg/kg	95 U	80 U	--	--
Carbazole	µg/kg	24 U	20 U	--	--
Chrysene	µg/kg	68	140	--	--
Di-n-butylphthalate (DBP)	µg/kg	28 U	23 U	--	--
Di-n-octyl phthalate (DnOP)	µg/kg	36 U	30 U	--	--
Dibenz(a,h)anthracene	µg/kg	11	19	--	--
Dibenzofuran	µg/kg	17 U	14 U	--	--
Diethyl phthalate	µg/kg	39 U	33 U	--	--
Dimethyl phthalate	µg/kg	18 U	15 U	--	--
Fluoranthene	µg/kg	110	250	--	--
Fluorene	µg/kg	6.3 J	9.2	--	--
Hexachlorobenzene	µg/kg	2.7 U	2.2 U	--	--
Hexachlorobutadiene	µg/kg	15 U	13 U	--	--
Hexachlorocyclopentadiene	µg/kg	79 U	66 U	--	--
Hexachloroethane	µg/kg	11 U	9.6 U	--	--
Indeno(1,2,3-cd)pyrene	µg/kg	34	69	--	--
Isophorone	µg/kg	15 U	13 U	--	--
N-Nitrosodi-n-propylamine	µg/kg	14 U	12 U	--	--
N-Nitrosodiphenylamine	µg/kg	15 U	13 U	--	--
Naphthalene	µg/kg	19	0.87 U	--	--
Nitrobenzene	µg/kg	17 U	14 U	--	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH156-18**	**BH157-18**	**BH158-17**	**BH159-17**
	Sample Name:	**S-38443-051618-JC-074**	**S-38443-051718-JC-083**	**S-38443-120617-JC-001**	**S-38443-121817-JC-010**
	Sample Date:	**05/16/2018**	**05/17/2018**	**12/06/2017**	**12/18/2017**
	Depth:	**13-15 ft BGS**	**12-14 ft BGS**	**3-5 ft BGS**	**13-15 ft BGS**
Parameters	**Unit**				
Semivolatile Organic Compounds					
Pentachlorophenol	µg/kg	74 U	62 U	--	--
Phenanthrene	µg/kg	57	100	--	--
Phenol	µg/kg	10 U	8.5 U	--	--
Pyrene	µg/kg	97	220	--	--
PCBs					
Aroclor-1016 (PCB-1016)	µg/kg	28 U	24 U	--	--
Aroclor-1221 (PCB-1221)	µg/kg	30 U	26 U	--	--
Aroclor-1232 (PCB-1232)	µg/kg	29 U	25 U	--	--
Aroclor-1242 (PCB-1242)	µg/kg	24 U	20 U	--	--
Aroclor-1248 (PCB-1248)	µg/kg	30 U	26 U	--	--
Aroclor-1254 (PCB-1254)	µg/kg	29 U	25 U	--	--
Aroclor-1260 (PCB-1260)	µg/kg	28 U	24 U	--	--
Pesticides					
4,4'-DDD	µg/kg	20 U	1.5 U	--	--
4,4'-DDE	µg/kg	20 U	1.6 U	--	--
4,4'-DDT	µg/kg	15 U	1.2 UJ	--	--
Aldrin	µg/kg	10 U	0.80 U	--	--
alpha-BHC	µg/kg	12 U	0.94 U	--	--
alpha-Chlordane	µg/kg	20 U	1.6 U	--	--
beta-BHC	µg/kg	23 U	1.8 U	--	--
delta-BHC	µg/kg	22 U	1.8 U	--	--
Dieldrin	µg/kg	15 U	1.1 U	--	--
Endosulfan I	µg/kg	16 U	1.2 U	--	--
Endosulfan II	µg/kg	20 U	1.5 U	--	--
Endosulfan sulfate	µg/kg	17 U	1.3 U	--	--
Endrin	µg/kg	25 U	2.0 U	--	--
Endrin aldehyde	µg/kg	17 U	1.4 U	--	--
Endrin ketone	µg/kg	12 U	0.92 U	--	--
gamma-BHC (lindane)	µg/kg	24 U	1.9 U	--	--
gamma-Chlordane	µg/kg	16 U	1.3 U	--	--
Heptachlor	µg/kg	21 U	1.6 U	--	--
Heptachlor epoxide	µg/kg	19 U	1.5 U	--	--
Methoxychlor	µg/kg	87 U	6.8 UJ	--	--
Toxaphene	µg/kg	330 U	26 U	--	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH156-18**	**BH157-18**	**BH158-17**	**BH159-17**
	Sample Name:	**S-38443-051618-JC-074**	**S-38443-051718-JC-083**	**S-38443-120617-JC-001**	**S-38443-121817-JC-010**
	Sample Date:	**05/16/2018**	**05/17/2018**	**12/06/2017**	**12/18/2017**
	Depth:	**13-15 ft BGS**	**12-14 ft BGS**	**3-5 ft BGS**	**13-15 ft BGS**
Parameters	**Unit**				
Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs)					
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	--	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	--	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--	--
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--	--
Total heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--	--
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--	--
Total hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--	--
Total pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--	--
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--	--
Total tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH156-18**	**BH157-18**	**BH158-17**	**BH159-17**
	Sample Name:	**S-38443-051618-JC-074**	**S-38443-051718-JC-083**	**S-38443-120617-JC-001**	**S-38443-121817-JC-010**
	Sample Date:	**05/16/2018**	**05/17/2018**	**12/06/2017**	**12/18/2017**
	Depth:	**13-15 ft BGS**	**12-14 ft BGS**	**3-5 ft BGS**	**13-15 ft BGS**
Parameters	**Unit**				
Metals					
Aluminum	mg/kg	5800	1500 J	--	--
Antimony	mg/kg	0.23 J	0.12 UJ	--	--
Arsenic	mg/kg	7.5	5.7	--	--
Barium	mg/kg	82 J	19	--	--
Beryllium	mg/kg	0.43	0.19	--	--
Cadmium	mg/kg	0.25	0.091 J	--	--
Calcium	mg/kg	120000	220000	--	--
Chromium	mg/kg	9.7	4.5	13	18
Chromium III (trivalent)	mg/kg	9.7	4.5	13	18
Chromium VI (hexavalent)	mg/kg	0.31 U	0.25 U	0.26 U	1.4 U
Cobalt	mg/kg	4.5	2.5	--	--
Copper	mg/kg	14	6.7	--	--
Iron	mg/kg	12000	6300	--	--
Lead	mg/kg	34 J	6.8	--	--
Lead - coarse fraction	mg/kg	--	--	--	--
Lead - fine fraction	mg/kg	--	--	--	--
Lead - total (calculated by fine/coarse fraction)	mg/kg	--	--	--	--
Magnesium	mg/kg	53000	52000	--	--
Manganese	mg/kg	480	340 J	--	--
Mercury	mg/kg	0.18	0.018 U	--	--
Nickel	mg/kg	12	8.9	--	--
Potassium	mg/kg	730	440	--	--
Selenium	mg/kg	0.38 J	0.24 J	--	--
Silver	mg/kg	0.049 J	0.021 U	--	--
Sodium	mg/kg	180 J	140 J	--	--
Thallium	mg/kg	0.15 J	0.083 J	--	--
Vanadium	mg/kg	15	5.2	--	--
Zinc	mg/kg	69	15	--	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH156-18**	**BH157-18**	**BH158-17**	**BH159-17**
	Sample Name:	**S-38443-051618-JC-074**	**S-38443-051718-JC-083**	**S-38443-120617-JC-001**	**S-38443-121817-JC-010**
	Sample Date:	**05/16/2018**	**05/17/2018**	**12/06/2017**	**12/18/2017**
	Depth:	**13-15 ft BGS**	**12-14 ft BGS**	**3-5 ft BGS**	**13-15 ft BGS**
Parameters	**Unit**				
General Chemistry					
Cyanide (total)	mg/kg	0.26 U	0.19 U	--	--

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
NJ - Tentatively identified compound, estimated concentration
PCBs - Polychlorinated Biphenyls
R - Rejected
-- - Not applicable

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH159-17**	**BH162-18**	**BH163-18**	**BH164-17**
	Sample Name:	**S-38443-121817-JC-011**	**S-38443-050818-JC-071**	**S-38443-050818-JC-070**	**S-38443-122017-JC-017**
	Sample Date:	**12/18/2017**	**05/08/2018**	**05/08/2018**	**12/20/2017**
	Depth:	**19-21 ft BGS**	**16-18 ft BGS**	**17-19 ft BGS**	**13-15 ft BGS**
Parameters	**Unit**				
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/kg	0.23 U	0.22 U	0.24 U	--
1,1,2,2-Tetrachloroethane	µg/kg	0.26 U	0.25 U	0.27 U	--
1,1,2-Trichloroethane	µg/kg	0.39 U	0.38 U	0.40 U	--
1,1-Dichloroethane	µg/kg	0.33 U	0.32 U	0.34 U	--
1,1-Dichloroethene	µg/kg	0.54 U	0.52 U	0.56 U	--
1,2,4-Trichlorobenzene	µg/kg	0.24 U	0.23 U	0.25 U	--
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	0.68 U	0.65 U	0.70 U	--
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	0.35 U	0.34 U	0.36 U	--
1,2-Dichlorobenzene	µg/kg	1.7 J	0.21 U	0.23 U	--
1,2-Dichloroethane	µg/kg	0.29 U	0.28 U	0.30 U	--
1,2-Dichloropropane	µg/kg	0.31 U	0.30 U	0.32 U	--
1,3-Dichlorobenzene	µg/kg	0.29 U	0.28 U	0.30 U	--
1,4-Dichlorobenzene	µg/kg	0.35 U	0.34 U	0.36 U	--
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	4.5 U	1.2 U	5.6 J	--
2-Hexanone	µg/kg	0.58 U	0.56 U	0.60 U	--
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	0.89 U	0.86 U	0.92 U	--
Acetone	µg/kg	26 U	2.9 U	45	--
Benzene	µg/kg	0.32 U	0.31 U	0.33 U	--
Bromodichloromethane	µg/kg	0.33 U	0.32 U	0.34 U	--
Bromoform	µg/kg	0.40 U	0.38 U	0.41 U	--
Bromomethane (Methyl bromide)	µg/kg	0.59 U	0.57 U	0.61 U	--
Carbon disulfide	µg/kg	2.3 J	0.20 U	0.22 U	--
Carbon tetrachloride	µg/kg	0.25 U	0.24 U	0.26 U	--
Chlorobenzene	µg/kg	1.2 J	0.32 U	0.34 U	--
Chloroethane	µg/kg	0.38 U	0.37 U	0.39 U	--
Chloroform (Trichloromethane)	µg/kg	0.23 U	0.22 U	0.24 U	--
Chloromethane (Methyl chloride)	µg/kg	0.38 U	0.37 U	0.39 U	--
cis-1,2-Dichloroethene	µg/kg	1.7 J	0.27 U	0.29 U	--
cis-1,3-Dichloropropene	µg/kg	0.26 U	0.25 U	0.27 U	--
Cyclohexane	µg/kg	0.21 U	0.20 U	0.22 U	--
Dibromochloromethane	µg/kg	0.30 U	0.29 U	0.31 U	--
Dichlorodifluoromethane (CFC-12)	µg/kg	0.35 U	0.34 U	0.36 U	--
Ethylbenzene	µg/kg	0.27 U	0.26 U	0.28 U	--
Isopropyl benzene	µg/kg	0.20 U	0.19 U	0.21 U	--
Methyl acetate	µg/kg	1.2 U	1.1 U	1.2 U	--
Methyl cyclohexane	µg/kg	0.27 J	0.22 U	0.24 U	--
Methyl tert butyl ether (MTBE)	µg/kg	0.27 U	0.26 U	0.28 U	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH159-17**	**BH162-18**	**BH163-18**	**BH164-17**
	Sample Name:	**S-38443-121817-JC-011**	**S-38443-050818-JC-071**	**S-38443-050818-JC-070**	**S-38443-122017-JC-017**
	Sample Date:	**12/18/2017**	**05/08/2018**	**05/08/2018**	**12/20/2017**
	Depth:	**19-21 ft BGS**	**16-18 ft BGS**	**17-19 ft BGS**	**13-15 ft BGS**
Parameters	**Unit**				
Volatile Organic Compounds					
Methylene chloride	µg/kg	0.24 U	0.23 U	0.25 U	--
Styrene	µg/kg	0.27 U	0.26 U	0.28 U	--
Tetrachloroethene	µg/kg	0.37 U	0.36 U	0.38 U	--
Toluene	µg/kg	0.66 J	0.33 U	1.1 J	--
trans-1,2-Dichloroethene	µg/kg	0.38 U	0.37 U	0.39 U	--
trans-1,3-Dichloropropene	µg/kg	0.21 U	0.20 U	0.22 U	--
Trichloroethene	µg/kg	4.4 J	0.39 U	0.42 U	--
Trichlorofluoromethane (CFC-11)	µg/kg	0.24 U	0.23 U	0.25 U	--
Trifluorotrichloroethane (CFC-113)	µg/kg	0.49 U	0.47 U	0.51 U	--
Vinyl chloride	µg/kg	0.28 U	0.27 U	0.29 U	--
Xylenes (total)	µg/kg	0.70 J	0.38 U	0.41 U	--
Semivolatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	9.9 U	11 U	12 U	--
2,4,5-Trichlorophenol	µg/kg	26 U	29 U	30 U	--
2,4,6-Trichlorophenol	µg/kg	9.3 U	10 U	11 U	--
2,4-Dichlorophenol	µg/kg	21 U	23 U	24 U	--
2,4-Dimethylphenol	µg/kg	21 U	23 U	24 U	--
2,4-Dinitrophenol	µg/kg	22 U	24 U	26 U	--
2,4-Dinitrotoluene	µg/kg	18 U	20 U	21 U	--
2,6-Dinitrotoluene	µg/kg	22 U	24 U	26 U	--
2-Chloronaphthalene	µg/kg	0.47 U	0.52 U	0.55 U	--
2-Chlorophenol	µg/kg	8.5 U	9.5 U	10 U	--
2-Methylnaphthalene	µg/kg	28	0.58 U	0.61 U	--
2-Methylphenol	µg/kg	11 U	13 U	13 U	--
2-Nitroaniline	µg/kg	9.5 U	11 U	11 U	--
2-Nitrophenol	µg/kg	8.6 U	9.6 U	10 U	--
3&4-Methylphenol	µg/kg	21 U	23 U	24 U	--
3,3'-Dichlorobenzidine	µg/kg	19 U	21 U	22 U	--
3-Nitroaniline	µg/kg	17 U	19 U	19 U	--
4,6-Dinitro-2-methylphenol	µg/kg	9.6 U	11 U	11 U	--
4-Bromophenyl phenyl ether	µg/kg	14 U	15 U	16 U	--
4-Chloro-3-methylphenol	µg/kg	22 U	24 U	26 U	--
4-Chloroaniline	µg/kg	18 U	20 U	21 U	--
4-Chlorophenyl phenyl ether	µg/kg	14 U	15 U	16 U	--
4-Nitroaniline	µg/kg	27 U	30 U	32 U	--
4-Nitrophenol	µg/kg	18 U	20 U	21 U	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH159-17**	**BH162-18**	**BH163-18**	**BH164-17**
	Sample Name:	**S-38443-121817-JC-011**	**S-38443-050818-JC-071**	**S-38443-050818-JC-070**	**S-38443-122017-JC-017**
	Sample Date:	**12/18/2017**	**05/08/2018**	**05/08/2018**	**12/20/2017**
	Depth:	**19-21 ft BGS**	**16-18 ft BGS**	**17-19 ft BGS**	**13-15 ft BGS**
Parameters	**Unit**				
Semivolatile Organic Compounds					
Acenaphthene	µg/kg	0.79 U	0.88 U	0.93 U	--
Acenaphthylene	µg/kg	0.36 U	0.40 U	0.43 U	--
Acetophenone	µg/kg	9.6 U	11 U	11 U	--
Anthracene	µg/kg	0.81 U	0.90 U	0.95 U	--
Atrazine	µg/kg	9.5 U	11 U	11 U	--
Benzaldehyde	µg/kg	12 U	14 UJ	15 J	--
Benzo(a)anthracene	µg/kg	15	0.73 U	0.77 U	--
Benzo(a)pyrene	µg/kg	15	0.74 U	0.78 U	--
Benzo(b)fluoranthene	µg/kg	26	0.68 U	0.72 U	--
Benzo(g,h,i)perylene	µg/kg	17	0.40 U	0.43 U	--
Benzo(k)fluoranthene	µg/kg	9.2	0.79 U	0.83 U	--
Biphenyl (1,1-Biphenyl)	µg/kg	5.4 J	4.0 U	4.3 U	--
bis(2-Chloroethoxy)methane	µg/kg	23 U	25 U	27 U	--
bis(2-Chloroethyl)ether	µg/kg	2.1 U	2.3 U	2.4 U	--
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	35 J	44 U	46 U	--
Butyl benzylphthalate (BBP)	µg/kg	10 U	12 U	12 U	--
Caprolactam	µg/kg	38 U	43 U	45 U	--
Carbazole	µg/kg	28 U	31 U	33 U	--
Chrysene	µg/kg	22	1.3 U	1.3 U	--
Di-n-butylphthalate (DBP)	µg/kg	16 U	17 U	18 U	--
Di-n-octyl phthalate (DnOP)	µg/kg	8.2 U	9.1 U	9.6 U	--
Dibenz(a,h)anthracene	µg/kg	0.69 U	0.76 U	0.80 U	--
Dibenzofuran	µg/kg	0.69 U	0.76 U	0.80 U	--
Diethyl phthalate	µg/kg	20 J	19 U	19 U	--
Dimethyl phthalate	µg/kg	18 U	20 U	21 U	--
Fluoranthene	µg/kg	39	0.64 U	0.67 U	--
Fluorene	µg/kg	0.55 U	0.61 U	0.65 U	--
Hexachlorobenzene	µg/kg	2.2 U	2.4 U	2.6 U	--
Hexachlorobutadiene	µg/kg	5.8 U	6.5 U	6.8 U	--
Hexachlorocyclopentadiene	µg/kg	8.4 U	R	9.9 U	--
Hexachloroethane	µg/kg	9.4 U	10 U	11 U	--
Indeno(1,2,3-cd)pyrene	µg/kg	12	0.40 U	0.43 U	--
Isophorone	µg/kg	14 U	15 U	16 U	--
N-Nitrosodi-n-propylamine	µg/kg	6.6 U	7.3 U	7.7 U	--
N-Nitrosodiphenylamine	µg/kg	22 U	24 U	26 U	--
Naphthalene	µg/kg	13	0.95 U	1.0 U	--
Nitrobenzene	µg/kg	2.3 U	2.5 U	2.7 U	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH159-17**	**BH162-18**	**BH163-18**	**BH164-17**
	Sample Name:	**S-38443-121817-JC-011**	**S-38443-050818-JC-071**	**S-38443-050818-JC-070**	**S-38443-122017-JC-017**
	Sample Date:	**12/18/2017**	**05/08/2018**	**05/08/2018**	**12/20/2017**
	Depth:	**19-21 ft BGS**	**16-18 ft BGS**	**17-19 ft BGS**	**13-15 ft BGS**
Parameters	**Unit**				
Semivolatile Organic Compounds					
Pentachlorophenol	µg/kg	9.5 U	11 U	11 U	--
Phenanthrene	µg/kg	38	0.84 U	0.89 U	--
Phenol	µg/kg	7.6 U	8.4 U	8.9 U	--
Pyrene	µg/kg	32	0.51 U	0.54 U	--
PCBs					
Aroclor-1016 (PCB-1016)	µg/kg	23 U	25 U	27 U	--
Aroclor-1221 (PCB-1221)	µg/kg	25 U	28 U	29 U	--
Aroclor-1232 (PCB-1232)	µg/kg	24 U	27 U	28 U	--
Aroclor-1242 (PCB-1242)	µg/kg	20 U	22 U	23 U	--
Aroclor-1248 (PCB-1248)	µg/kg	25 U	28 U	29 U	--
Aroclor-1254 (PCB-1254)	µg/kg	24 U	27 U	28 U	--
Aroclor-1260 (PCB-1260)	µg/kg	23 U	25 U	27 U	--
Pesticides					
4,4'-DDD	µg/kg	36 J	1.7 U	89 U	--
4,4'-DDE	µg/kg	13 U	1.7 U	91 U	--
4,4'-DDT	µg/kg	15 U	1.3 U	68 U	--
Aldrin	µg/kg	25 U	0.88 U	46 U	--
alpha-BHC	µg/kg	17 U	1.0 U	55 U	--
alpha-Chlordane	µg/kg	40 U	1.7 U	91 U	--
beta-BHC	µg/kg	41 U	2.0 U	100 U	--
delta-BHC	µg/kg	14 U	1.9 U	100 U	--
Dieldrin	µg/kg	9.4 U	1.3 U	66 U	--
Endosulfan I	µg/kg	14 U	1.4 U	72 U	--
Endosulfan II	µg/kg	19 U	1.7 U	89 U	--
Endosulfan sulfate	µg/kg	13 U	1.5 U	77 U	--
Endrin	µg/kg	15 U	2.2 U	110 U	--
Endrin aldehyde	µg/kg	19 U	1.5 U	79 U	--
Endrin ketone	µg/kg	12 U	1.0 U	54 U	--
gamma-BHC (lindane)	µg/kg	30 U	2.0 U	110 U	--
gamma-Chlordane	µg/kg	16 U	1.4 U	74 U	--
Heptachlor	µg/kg	8.2 U	1.8 U	95 U	--
Heptachlor epoxide	µg/kg	25 U	1.6 U	87 U	--
Methoxychlor	µg/kg	13 U	7.5 U	400 U	--
Toxaphene	µg/kg	390 U	29 U	1500 U	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH159-17**	**BH162-18**	**BH163-18**	**BH164-17**
	Sample Name:	**S-38443-121817-JC-011**	**S-38443-050818-JC-071**	**S-38443-050818-JC-070**	**S-38443-122017-JC-017**
	Sample Date:	**12/18/2017**	**05/08/2018**	**05/08/2018**	**12/20/2017**
	Depth:	**19-21 ft BGS**	**16-18 ft BGS**	**17-19 ft BGS**	**13-15 ft BGS**
Parameters	**Unit**				
Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs)					
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	--	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	--	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--	--
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--	--
Total heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--	--
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--	--
Total hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--	--
Total pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--	--
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--	--
Total tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH159-17**	**BH162-18**	**BH163-18**	**BH164-17**
	Sample Name:	**S-38443-121817-JC-011**	**S-38443-050818-JC-071**	**S-38443-050818-JC-070**	**S-38443-122017-JC-017**
	Sample Date:	**12/18/2017**	**05/08/2018**	**05/08/2018**	**12/20/2017**
	Depth:	**19-21 ft BGS**	**16-18 ft BGS**	**17-19 ft BGS**	**13-15 ft BGS**
Parameters	**Unit**				
Metals					
Aluminum	mg/kg	2600	7400	6100	--
Antimony	mg/kg	0.23 J	0.11 U	0.14 J	--
Arsenic	mg/kg	3.6	6.7	4.0	--
Barium	mg/kg	44	72	86	--
Beryllium	mg/kg	0.15 J	0.35	0.35	--
Cadmium	mg/kg	0.29	0.26	0.31	--
Calcium	mg/kg	100000	60000	45000	--
Chromium	mg/kg	45	11	8.6	310
Chromium III (trivalent)	mg/kg	45	10	8.6	300
Chromium VI (hexavalent)	mg/kg	1.3 U	0.34 J	1.5 U	5.0
Cobalt	mg/kg	2.4	5.4	4.6	--
Copper	mg/kg	20	9.0	9.4	--
Iron	mg/kg	8700	15000	12000	--
Lead	mg/kg	110	7.4	6.4	--
Lead - coarse fraction	mg/kg	--	--	--	--
Lead - fine fraction	mg/kg	--	--	--	--
Lead - total (calculated by fine/coarse fraction)	mg/kg	--	--	--	--
Magnesium	mg/kg	30000	24000	18000	--
Manganese	mg/kg	910	510	470	--
Mercury	mg/kg	0.017 U	0.021 U	0.025 U	--
Nickel	mg/kg	8.6	12	11	--
Potassium	mg/kg	490	580	530	--
Selenium	mg/kg	0.27 J	0.61 J	0.71 J	--
Silver	mg/kg	0.091 J	0.022 J	0.027 J	--
Sodium	mg/kg	150 J	97 J	77 J	--
Thallium	mg/kg	0.11 J	0.14 J	0.13 J	--
Vanadium	mg/kg	9.2	17	15	--
Zinc	mg/kg	35	38	32	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH159-17**	**BH162-18**	**BH163-18**	**BH164-17**
	Sample Name:	**S-38443-121817-JC-011**	**S-38443-050818-JC-071**	**S-38443-050818-JC-070**	**S-38443-122017-JC-017**
	Sample Date:	**12/18/2017**	**05/08/2018**	**05/08/2018**	**12/20/2017**
	Depth:	**19-21 ft BGS**	**16-18 ft BGS**	**17-19 ft BGS**	**13-15 ft BGS**
Parameters	**Unit**				
General Chemistry					
Cyanide (total)	mg/kg	0.051 J	0.24 U	0.24 J	--

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
NJ - Tentatively identified compound, estimated concentration
PCBs - Polychlorinated Biphenyls
R - Rejected
-- - Not applicable

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH164-17**	**BH165-17**	**BH165-17**	**BH166-17**
	Sample Name:	**S-38443-122017-JC-018**	**S-38443-122017-JC-019**	**S-38443-122017-JC-020**	**S-38443-121917-JC-012**
	Sample Date:	**12/20/2017**	**12/20/2017**	**12/20/2017**	**12/19/2017**
	Depth:	**18-20 ft BGS**	**13-15 ft BGS**	**21.5-23.5 ft BGS**	**1-3 ft BGS**
Parameters	**Unit**				
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/kg	0.42 U	--	54 U	--
1,1,2,2-Tetrachloroethane	µg/kg	R	--	47 UJ	--
1,1,2-Trichloroethane	µg/kg	0.71 U	--	45 U	--
1,1-Dichloroethane	µg/kg	0.60 U	--	60 U	--
1,1-Dichloroethene	µg/kg	0.98 U	--	70 UJ	--
1,2,4-Trichlorobenzene	µg/kg	R	--	50 U	--
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	R	--	93 U	--
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	0.64 U	--	45 UJ	--
1,2-Dichlorobenzene	µg/kg	R	--	35 U	--
1,2-Dichloroethane	µg/kg	0.53 U	--	58 U	--
1,2-Dichloropropane	µg/kg	0.56 U	--	58 U	--
1,3-Dichlorobenzene	µg/kg	R	--	74 U	--
1,4-Dichlorobenzene	µg/kg	R	--	130 J	--
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	4.9 J	--	97 U	--
2-Hexanone	µg/kg	1.1 U	--	170 U	--
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	1.6 U	--	78 U	--
Acetone	µg/kg	26 U	--	276 U	--
Benzene	µg/kg	0.58 U	--	47 U	--
Bromodichloromethane	µg/kg	0.60 U	--	35 U	--
Bromoform	µg/kg	0.73 UJ	--	45 U	--
Bromomethane (Methyl bromide)	µg/kg	1.1 U	--	54 U	--
Carbon disulfide	µg/kg	0.41 J	--	150 J	--
Carbon tetrachloride	µg/kg	0.46 U	--	52 U	--
Chlorobenzene	µg/kg	0.60 U	--	2400	--
Chloroethane	µg/kg	0.69 U	--	54 U	--
Chloroform (Trichloromethane)	µg/kg	0.42 U	--	47 U	--
Chloromethane (Methyl chloride)	µg/kg	0.69 U	--	35 U	--
cis-1,2-Dichloroethene	µg/kg	0.51 U	--	68 UJ	--
cis-1,3-Dichloropropene	µg/kg	0.47 U	--	45 UJ	--
Cyclohexane	µg/kg	0.38 U	--	58 U	--
Dibromochloromethane	µg/kg	0.55 U	--	66 U	--
Dichlorodifluoromethane (CFC-12)	µg/kg	0.64 U	--	43 U	--
Ethylbenzene	µg/kg	0.80 J	--	68 U	--
Isopropyl benzene	µg/kg	0.36 U	--	66 U	--
Methyl acetate	µg/kg	2.1 U	--	460 J	--
Methyl cyclohexane	µg/kg	0.42 U	--	72 U	--
Methyl tert butyl ether (MTBE)	µg/kg	0.49 U	--	50 U	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH164-17**	**BH165-17**	**BH165-17**	**BH166-17**
	Sample Name:	**S-38443-122017-JC-018**	**S-38443-122017-JC-019**	**S-38443-122017-JC-020**	**S-38443-121917-JC-012**
	Sample Date:	**12/20/2017**	**12/20/2017**	**12/20/2017**	**12/19/2017**
	Depth:	**18-20 ft BGS**	**13-15 ft BGS**	**21.5-23.5 ft BGS**	**1-3 ft BGS**
Parameters	**Unit**				
Volatile Organic Compounds					
Methylene chloride	µg/kg	4.5 U	--	150 U	--
Styrene	µg/kg	0.49 U	--	19 U	--
Tetrachloroethene	µg/kg	0.67 U	--	41 U	--
Toluene	µg/kg	0.62 U	--	70 U	--
trans-1,2-Dichloroethene	µg/kg	0.69 U	--	68 U	--
trans-1,3-Dichloropropene	µg/kg	0.38 UJ	--	29 UJ	--
Trichloroethene	µg/kg	0.75 U	--	72 U	--
Trichlorofluoromethane (CFC-11)	µg/kg	0.44 U	--	66 U	--
Trifluorotrichloroethane (CFC-113)	µg/kg	0.89 U	--	45 UJ	--
Vinyl chloride	µg/kg	0.51 U	--	33 U	--
Xylenes (total)	µg/kg	2.5 J	--	66 J	--
Semivolatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	8200 U	--	4500 U	--
2,4,5-Trichlorophenol	µg/kg	22000 U	--	12000 U	--
2,4,6-Trichlorophenol	µg/kg	7700 U	--	4200 U	--
2,4-Dichlorophenol	µg/kg	17000 U	--	9500 U	--
2,4-Dimethylphenol	µg/kg	17000 U	--	9500 U	--
2,4-Dinitrophenol	µg/kg	18000 U	--	10000 U	--
2,4-Dinitrotoluene	µg/kg	15000 U	--	8100 U	--
2,6-Dinitrotoluene	µg/kg	18000 U	--	10000 U	--
2-Chloronaphthalene	µg/kg	390 U	--	210 U	--
2-Chlorophenol	µg/kg	7100 U	--	3900 U	--
2-Methylnaphthalene	µg/kg	29000	--	240 U	--
2-Methylphenol	µg/kg	9500 U	--	5200 U	--
2-Nitroaniline	µg/kg	7900 U	--	4300 U	--
2-Nitrophenol	µg/kg	7200 U	--	4000 U	--
3&4-Methylphenol	µg/kg	17000 U	--	9500 U	--
3,3'-Dichlorobenzidine	µg/kg	16000 U	--	8600 U	--
3-Nitroaniline	µg/kg	14000 U	--	7600 U	--
4,6-Dinitro-2-methylphenol	µg/kg	8000 U	--	4400 U	--
4-Bromophenyl phenyl ether	µg/kg	11000 U	--	6200 U	--
4-Chloro-3-methylphenol	µg/kg	18000 U	--	10000 U	--
4-Chloroaniline	µg/kg	15000 U	--	8100 U	--
4-Chlorophenyl phenyl ether	µg/kg	11000 U	--	6200 U	--
4-Nitroaniline	µg/kg	23000 U	--	12000 U	--
4-Nitrophenol	µg/kg	15000 U	--	8100 U	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH164-17**	**BH165-17**	**BH165-17**	**BH166-17**
	Sample Name:	**S-38443-122017-JC-018**	**S-38443-122017-JC-019**	**S-38443-122017-JC-020**	**S-38443-121917-JC-012**
	Sample Date:	**12/20/2017**	**12/20/2017**	**12/20/2017**	**12/19/2017**
	Depth:	**18-20 ft BGS**	**13-15 ft BGS**	**21.5-23.5 ft BGS**	**1-3 ft BGS**
Parameters	**Unit**				
Semivolatile Organic Compounds					
Acenaphthene	µg/kg	120000	--	360 U	--
Acenaphthylene	µg/kg	3100 J	--	170 U	--
Acetophenone	µg/kg	8000 U	--	4400 U	--
Anthracene	µg/kg	200000	--	370 U	--
Atrazine	µg/kg	7900 U	--	4300 U	--
Benzaldehyde	µg/kg	10000 U	--	5700 U	--
Benzo(a)anthracene	µg/kg	390000	--	300 U	--
Benzo(a)pyrene	µg/kg	340000	--	310 U	--
Benzo(b)fluoranthene	µg/kg	460000	--	280 U	--
Benzo(g,h,i)perylene	µg/kg	210000	--	170 U	--
Benzo(k)fluoranthene	µg/kg	170000	--	320 U	--
Biphenyl (1,1-Biphenyl)	µg/kg	11000 J	--	1700 U	--
bis(2-Chloroethoxy)methane	µg/kg	19000 U	--	10000 U	--
bis(2-Chloroethyl)ether	µg/kg	1700 U	--	950 U	--
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	16000 U	--	560000	--
Butyl benzylphthalate (BBP)	µg/kg	8700 U	--	45000	--
Caprolactam	µg/kg	32000 U	--	18000 U	--
Carbazole	µg/kg	140000	--	13000 U	--
Chrysene	µg/kg	350000	--	520 U	--
Di-n-butylphthalate (DBP)	µg/kg	13000 U	--	7200 U	--
Di-n-octyl phthalate (DnOP)	µg/kg	6800 U	--	3800 U	--
Dibenz(a,h)anthracene	µg/kg	66000	--	310 U	--
Dibenzofuran	µg/kg	71000	--	310 U	--
Diethyl phthalate	µg/kg	14000 U	--	9700 J	--
Dimethyl phthalate	µg/kg	15000 U	--	8100 U	--
Fluoranthene	µg/kg	840000	--	260 U	--
Fluorene	µg/kg	150000	--	250 U	--
Hexachlorobenzene	µg/kg	1800 U	--	1000 U	--
Hexachlorobutadiene	µg/kg	4900 U	--	2700 U	--
Hexachlorocyclopentadiene	µg/kg	7000 U	--	3900 U	--
Hexachloroethane	µg/kg	7800 U	--	4300 U	--
Indeno(1,2,3-cd)pyrene	µg/kg	190000	--	170 U	--
Isophorone	µg/kg	11000 U	--	6200 U	--
N-Nitrosodi-n-propylamine	µg/kg	5500 U	--	3000 U	--
N-Nitrosodiphenylamine	µg/kg	18000 U	--	10000 U	--
Naphthalene	µg/kg	110000	--	390 U	--
Nitrobenzene	µg/kg	1900 U	--	1000 U	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH164-17**	**BH165-17**	**BH165-17**	**BH166-17**
	Sample Name:	**S-38443-122017-JC-018**	**S-38443-122017-JC-019**	**S-38443-122017-JC-020**	**S-38443-121917-JC-012**
	Sample Date:	**12/20/2017**	**12/20/2017**	**12/20/2017**	**12/19/2017**
	Depth:	**18-20 ft BGS**	**13-15 ft BGS**	**21.5-23.5 ft BGS**	**1-3 ft BGS**
Parameters	**Unit**				
Semivolatile Organic Compounds					
Pentachlorophenol	µg/kg	7900 U	--	4300 U	--
Phenanthrene	µg/kg	690000	--	350 U	--
Phenol	µg/kg	6300 U	--	3500 U	--
Pyrene	µg/kg	670000	--	210 U	--
PCBs					
Aroclor-1016 (PCB-1016)	µg/kg	29000 U	--	150 U	--
Aroclor-1221 (PCB-1221)	µg/kg	32000 U	--	170 U	--
Aroclor-1232 (PCB-1232)	µg/kg	31000 U	--	160 U	--
Aroclor-1242 (PCB-1242)	µg/kg	930000	--	3700	--
Aroclor-1248 (PCB-1248)	µg/kg	32000 U	--	170 U	--
Aroclor-1254 (PCB-1254)	µg/kg	31000 U	--	160 U	--
Aroclor-1260 (PCB-1260)	µg/kg	29000 U	--	1400	--
Pesticides					
4,4'-DDD	µg/kg	2300 U	--	22 U	--
4,4'-DDE	µg/kg	820 U	--	8.1 NJ	--
4,4'-DDT	µg/kg	960 U	--	9.2 U	--
Aldrin	µg/kg	1600 U	--	16 U	--
alpha-BHC	µg/kg	1100 U	--	11 U	--
alpha-Chlordane	µg/kg	2600 U	--	25 U	--
beta-BHC	µg/kg	2700 U	--	26 U	--
delta-BHC	µg/kg	890 U	--	860 U	--
Dieldrin	µg/kg	620 U	--	5.9 U	--
Endosulfan I	µg/kg	890 U	--	8.6 U	--
Endosulfan II	µg/kg	1200 U	--	12 U	--
Endosulfan sulfate	µg/kg	820 U	--	790 U	--
Endrin	µg/kg	960 U	--	9.2 U	--
Endrin aldehyde	µg/kg	1200 UJ	--	1200 U	--
Endrin ketone	µg/kg	750 U	--	7.2 U	--
gamma-BHC (lindane)	µg/kg	3400 J	--	19 U	--
gamma-Chlordane	µg/kg	1000 U	--	9.9 U	--
Heptachlor	µg/kg	530 U	--	5.1 U	--
Heptachlor epoxide	µg/kg	1600 U	--	16 U	--
Methoxychlor	µg/kg	820 U	--	7.9 U	--
Toxaphene	µg/kg	25000 U	--	240 U	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH164-17**	**BH165-17**	**BH165-17**	**BH166-17**
	Sample Name:	**S-38443-122017-JC-018**	**S-38443-122017-JC-019**	**S-38443-122017-JC-020**	**S-38443-121917-JC-012**
	Sample Date:	**12/20/2017**	**12/20/2017**	**12/20/2017**	**12/19/2017**
	Depth:	**18-20 ft BGS**	**13-15 ft BGS**	**21.5-23.5 ft BGS**	**1-3 ft BGS**
Parameters	**Unit**				
Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs)					
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	--	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	--	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--	--
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--	--
Total heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--	--
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--	--
Total hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--	--
Total pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--	--
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--	--
Total tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH164-17**	**BH165-17**	**BH165-17**	**BH166-17**
	Sample Name:	**S-38443-122017-JC-018**	**S-38443-122017-JC-019**	**S-38443-122017-JC-020**	**S-38443-121917-JC-012**
	Sample Date:	**12/20/2017**	**12/20/2017**	**12/20/2017**	**12/19/2017**
	Depth:	**18-20 ft BGS**	**13-15 ft BGS**	**21.5-23.5 ft BGS**	**1-3 ft BGS**
Parameters	**Unit**				
Metals					
Aluminum	mg/kg	16000	--	11000	--
Antimony	mg/kg	44	--	4.1 J	--
Arsenic	mg/kg	25	--	26	--
Barium	mg/kg	1700	--	570	--
Beryllium	mg/kg	1.3	--	1.4	--
Cadmium	mg/kg	13	--	3.2	--
Calcium	mg/kg	46000	--	63000	--
Chromium	mg/kg	79	58	57	52
Chromium III (trivalent)	mg/kg	79	58	57	52
Chromium VI (hexavalent)	mg/kg	1.7 U	1.5 U	1.7 U	0.28 U
Cobalt	mg/kg	14	--	12	--
Copper	mg/kg	530	--	400 J	--
Iron	mg/kg	31000	--	52000	--
Lead	mg/kg	1900	--	500 J	--
Lead - coarse fraction	mg/kg	--	--	--	--
Lead - fine fraction	mg/kg	--	--	--	--
Lead - total (calculated by fine/coarse fraction)	mg/kg	--	--	--	--
Magnesium	mg/kg	11000	--	19000	--
Manganese	mg/kg	410 J	--	580	--
Mercury	mg/kg	0.28 J	--	0.57	--
Nickel	mg/kg	72	--	45	--
Potassium	mg/kg	1700	--	910	--
Selenium	mg/kg	2.0	--	2.4	--
Silver	mg/kg	3.7	--	1.6	--
Sodium	mg/kg	1000 J	--	370	--
Thallium	mg/kg	0.35 J	--	0.76	--
Vanadium	mg/kg	30	--	26	--
Zinc	mg/kg	2800	--	700	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH164-17**	**BH165-17**	**BH165-17**	**BH166-17**
	Sample Name:	**S-38443-122017-JC-018**	**S-38443-122017-JC-019**	**S-38443-122017-JC-020**	**S-38443-121917-JC-012**
	Sample Date:	**12/20/2017**	**12/20/2017**	**12/20/2017**	**12/19/2017**
	Depth:	**18-20 ft BGS**	**13-15 ft BGS**	**21.5-23.5 ft BGS**	**1-3 ft BGS**
Parameters	**Unit**				
General Chemistry					
Cyanide (total)	mg/kg	120	--	3.1	--

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
NJ - Tentatively identified compound, estimated concentration
PCBs - Polychlorinated Biphenyls
R - Rejected
-- - Not applicable

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH166-17**	**BH168-17**	**BH172-17**	**BH173-17**
	Sample Name:	**S-38443-121917-JC-013**	**S-38443-122117-JC-024**	**S-38443-120817-JC-007**	**S-38443-122117-JC-021**
	Sample Date:	**12/19/2017**	**12/21/2017**	**12/08/2017**	**12/21/2017**
	Depth:	**18-20 ft BGS**	**12.5-14.5 ft BGS**	**12-14 ft BGS**	**5-7 ft BGS**
Parameters	**Unit**				
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/kg	0.77 U	--	--	--
1,1,2,2-Tetrachloroethane	µg/kg	R	--	--	--
1,1,2-Trichloroethane	µg/kg	R	--	--	--
1,1-Dichloroethane	µg/kg	1.1 U	--	--	--
1,1-Dichloroethene	µg/kg	1.8 U	--	--	--
1,2,4-Trichlorobenzene	µg/kg	R	--	--	--
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	R	--	--	--
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	R	--	--	--
1,2-Dichlorobenzene	µg/kg	R	--	--	--
1,2-Dichloroethane	µg/kg	0.98 U	--	--	--
1,2-Dichloropropane	µg/kg	1.0 U	--	--	--
1,3-Dichlorobenzene	µg/kg	R	--	--	--
1,4-Dichlorobenzene	µg/kg	R	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	R	--	--	--
2-Hexanone	µg/kg	R	--	--	--
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	9.9 J	--	--	--
Acetone	µg/kg	78 J	--	--	--
Benzene	µg/kg	1.1 U	--	--	--
Bromodichloromethane	µg/kg	1.1 U	--	--	--
Bromoform	µg/kg	R	--	--	--
Bromomethane (Methyl bromide)	µg/kg	2.0 U	--	--	--
Carbon disulfide	µg/kg	1.4 J	--	--	--
Carbon tetrachloride	µg/kg	0.84 U	--	--	--
Chlorobenzene	µg/kg	R	--	--	--
Chloroethane	µg/kg	1.3 U	--	--	--
Chloroform (Trichloromethane)	µg/kg	0.77 U	--	--	--
Chloromethane (Methyl chloride)	µg/kg	1.3 U	--	--	--
cis-1,2-Dichloroethene	µg/kg	0.94 U	--	--	--
cis-1,3-Dichloropropene	µg/kg	0.88 U	--	--	--
Cyclohexane	µg/kg	0.71 U	--	--	--
Dibromochloromethane	µg/kg	R	--	--	--
Dichlorodifluoromethane (CFC-12)	µg/kg	1.2 U	--	--	--
Ethylbenzene	µg/kg	0.95 J	--	--	--
Isopropyl benzene	µg/kg	R	--	--	--
Methyl acetate	µg/kg	3.9 U	--	--	--
Methyl cyclohexane	µg/kg	0.77 U	--	--	--
Methyl tert butyl ether (MTBE)	µg/kg	0.91 U	--	--	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH166-17**	**BH168-17**	**BH172-17**	**BH173-17**
	Sample Name:	**S-38443-121917-JC-013**	**S-38443-122117-JC-024**	**S-38443-120817-JC-007**	**S-38443-122117-JC-021**
	Sample Date:	**12/19/2017**	**12/21/2017**	**12/08/2017**	**12/21/2017**
	Depth:	**18-20 ft BGS**	**12.5-14.5 ft BGS**	**12-14 ft BGS**	**5-7 ft BGS**
Parameters	**Unit**				
Volatile Organic Compounds					
Methylene chloride	µg/kg	0.81 U	--	--	--
Styrene	µg/kg	R	--	--	--
Tetrachloroethene	µg/kg	R	--	--	--
Toluene	µg/kg	24 J	--	--	--
trans-1,2-Dichloroethene	µg/kg	1.3 U	--	--	--
trans-1,3-Dichloropropene	µg/kg	R	--	--	--
Trichloroethene	µg/kg	1.4 U	--	--	--
Trichlorofluoromethane (CFC-11)	µg/kg	0.81 U	--	--	--
Trifluorotrichloroethane (CFC-113)	µg/kg	1.6 U	--	--	--
Vinyl chloride	µg/kg	0.94 U	--	--	--
Xylenes (total)	µg/kg	R	--	--	--
Semivolatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	R	--	--	--
2,4,5-Trichlorophenol	µg/kg	46 U	--	--	--
2,4,6-Trichlorophenol	µg/kg	16 U	--	--	--
2,4-Dichlorophenol	µg/kg	37 U	--	--	--
2,4-Dimethylphenol	µg/kg	37 U	--	--	--
2,4-Dinitrophenol	µg/kg	39 U	--	--	--
2,4-Dinitrotoluene	µg/kg	R	--	--	--
2,6-Dinitrotoluene	µg/kg	R	--	--	--
2-Chloronaphthalene	µg/kg	R	--	--	--
2-Chlorophenol	µg/kg	15 U	--	--	--
2-Methylnaphthalene	µg/kg	R	--	--	--
2-Methylphenol	µg/kg	20 U	--	--	--
2-Nitroaniline	µg/kg	R	--	--	--
2-Nitrophenol	µg/kg	15 U	--	--	--
3&4-Methylphenol	µg/kg	37 U	--	--	--
3,3'-Dichlorobenzidine	µg/kg	R	--	--	--
3-Nitroaniline	µg/kg	R	--	--	--
4,6-Dinitro-2-methylphenol	µg/kg	17 U	--	--	--
4-Bromophenyl phenyl ether	µg/kg	R	--	--	--
4-Chloro-3-methylphenol	µg/kg	39 U	--	--	--
4-Chloroaniline	µg/kg	R	--	--	--
4-Chlorophenyl phenyl ether	µg/kg	R	--	--	--
4-Nitroaniline	µg/kg	R	--	--	--
4-Nitrophenol	µg/kg	31 U	--	--	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH166-17**	**BH168-17**	**BH172-17**	**BH173-17**
	Sample Name:	**S-38443-121917-JC-013**	**S-38443-122117-JC-024**	**S-38443-120817-JC-007**	**S-38443-122117-JC-021**
	Sample Date:	**12/19/2017**	**12/21/2017**	**12/08/2017**	**12/21/2017**
	Depth:	**18-20 ft BGS**	**12.5-14.5 ft BGS**	**12-14 ft BGS**	**5-7 ft BGS**
Parameters	**Unit**				
Semivolatile Organic Compounds					
Acenaphthene	µg/kg	R	--	--	--
Acenaphthylene	µg/kg	R	--	--	--
Acetophenone	µg/kg	R	--	--	--
Anthracene	µg/kg	R	--	--	--
Atrazine	µg/kg	R	--	--	--
Benzaldehyde	µg/kg	R	--	--	--
Benzo(a)anthracene	µg/kg	R	--	--	--
Benzo(a)pyrene	µg/kg	R	--	--	--
Benzo(b)fluoranthene	µg/kg	R	--	--	--
Benzo(g,h,i)perylene	µg/kg	R	--	--	--
Benzo(k)fluoranthene	µg/kg	R	--	--	--
Biphenyl (1,1-Biphenyl)	µg/kg	R	--	--	--
bis(2-Chloroethoxy)methane	µg/kg	R	--	--	--
bis(2-Chloroethyl)ether	µg/kg	R	--	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	68 J	--	--	--
Butyl benzylphthalate (BBP)	µg/kg	R	--	--	--
Caprolactam	µg/kg	R	--	--	--
Carbazole	µg/kg	R	--	--	--
Chrysene	µg/kg	R	--	--	--
Di-n-butylphthalate (DBP)	µg/kg	R	--	--	--
Di-n-octyl phthalate (DnOP)	µg/kg	R	--	--	--
Dibenz(a,h)anthracene	µg/kg	R	--	--	--
Dibenzofuran	µg/kg	R	--	--	--
Diethyl phthalate	µg/kg	R	--	--	--
Dimethyl phthalate	µg/kg	R	--	--	--
Fluoranthene	µg/kg	R	--	--	--
Fluorene	µg/kg	R	--	--	--
Hexachlorobenzene	µg/kg	R	--	--	--
Hexachlorobutadiene	µg/kg	R	--	--	--
Hexachlorocyclopentadiene	µg/kg	R	--	--	--
Hexachloroethane	µg/kg	R	--	--	--
Indeno(1,2,3-cd)pyrene	µg/kg	R	--	--	--
Isophorone	µg/kg	R	--	--	--
N-Nitrosodi-n-propylamine	µg/kg	R	--	--	--
N-Nitrosodiphenylamine	µg/kg	R	--	--	--
Naphthalene	µg/kg	R	--	--	--
Nitrobenzene	µg/kg	R	--	--	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH166-17**	**BH168-17**	**BH172-17**	**BH173-17**
	Sample Name:	**S-38443-121917-JC-013**	**S-38443-122117-JC-024**	**S-38443-120817-JC-007**	**S-38443-122117-JC-021**
	Sample Date:	**12/19/2017**	**12/21/2017**	**12/08/2017**	**12/21/2017**
	Depth:	**18-20 ft BGS**	**12.5-14.5 ft BGS**	**12-14 ft BGS**	**5-7 ft BGS**
Parameters	**Unit**				
Semivolatile Organic Compounds					
Pentachlorophenol	µg/kg	17 U	--	--	--
Phenanthrene	µg/kg	R	--	--	--
Phenol	µg/kg	14 U	--	--	--
Pyrene	µg/kg	R	--	--	--
PCBs					
Aroclor-1016 (PCB-1016)	µg/kg	40 U	--	--	--
Aroclor-1221 (PCB-1221)	µg/kg	44 U	--	--	--
Aroclor-1232 (PCB-1232)	µg/kg	42 U	--	--	--
Aroclor-1242 (PCB-1242)	µg/kg	35 U	--	--	--
Aroclor-1248 (PCB-1248)	µg/kg	44 U	--	--	--
Aroclor-1254 (PCB-1254)	µg/kg	42 U	--	--	--
Aroclor-1260 (PCB-1260)	µg/kg	40 U	--	--	--
Pesticides					
4,4'-DDD	µg/kg	6.1 U	--	--	--
4,4'-DDE	µg/kg	2.2 U	--	--	--
4,4'-DDT	µg/kg	2.6 U	--	--	--
Aldrin	µg/kg	4.4 U	--	--	--
alpha-BHC	µg/kg	2.9 U	--	--	--
alpha-Chlordane	µg/kg	7.0 U	--	--	--
beta-BHC	µg/kg	7.2 U	--	--	--
delta-BHC	µg/kg	48 U	--	--	--
Dieldrin	µg/kg	1.7 U	--	--	--
Endosulfan I	µg/kg	2.4 U	--	--	--
Endosulfan II	µg/kg	3.3 U	--	--	--
Endosulfan sulfate	µg/kg	44 U	--	--	--
Endrin	µg/kg	2.6 U	--	--	--
Endrin aldehyde	µg/kg	66 UJ	--	--	--
Endrin ketone	µg/kg	2.0 U	--	--	--
gamma-BHC (lindane)	µg/kg	5.3 U	--	--	--
gamma-Chlordane	µg/kg	2.8 U	--	--	--
Heptachlor	µg/kg	1.4 U	--	--	--
Heptachlor epoxide	µg/kg	4.4 U	--	--	--
Methoxychlor	µg/kg	2.2 U	--	--	--
Toxaphene	µg/kg	68 U	--	--	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH166-17**	**BH168-17**	**BH172-17**	**BH173-17**
	Sample Name:	**S-38443-121917-JC-013**	**S-38443-122117-JC-024**	**S-38443-120817-JC-007**	**S-38443-122117-JC-021**
	Sample Date:	**12/19/2017**	**12/21/2017**	**12/08/2017**	**12/21/2017**
	Depth:	**18-20 ft BGS**	**12.5-14.5 ft BGS**	**12-14 ft BGS**	**5-7 ft BGS**
Parameters	**Unit**				
Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs)					
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	--	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	--	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--	--
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--	--
Total heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--	--
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--	--
Total hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--	--
Total pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--	--
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--	--
Total tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH166-17**	**BH168-17**	**BH172-17**	**BH173-17**
	Sample Name:	**S-38443-121917-JC-013**	**S-38443-122117-JC-024**	**S-38443-120817-JC-007**	**S-38443-122117-JC-021**
	Sample Date:	**12/19/2017**	**12/21/2017**	**12/08/2017**	**12/21/2017**
	Depth:	**18-20 ft BGS**	**12.5-14.5 ft BGS**	**12-14 ft BGS**	**5-7 ft BGS**
Parameters	**Unit**				
Metals					
Aluminum	mg/kg	3600	--	--	--
Antimony	mg/kg	2.5	--	--	--
Arsenic	mg/kg	60	--	--	--
Barium	mg/kg	380	--	--	--
Beryllium	mg/kg	4.0	--	--	--
Cadmium	mg/kg	0.26 J	--	--	--
Calcium	mg/kg	1300	--	--	--
Chromium	mg/kg	14	79	6.2	24
Chromium III (trivalent)	mg/kg	14	79	6.2	24
Chromium VI (hexavalent)	mg/kg	0.44 U	2.8 U	0.34 U	2.8 U
Cobalt	mg/kg	11	--	--	--
Copper	mg/kg	62	--	--	--
Iron	mg/kg	8500	--	--	--
Lead	mg/kg	37	--	--	--
Lead - coarse fraction	mg/kg	--	--	--	--
Lead - fine fraction	mg/kg	--	--	--	--
Lead - total (calculated by fine/coarse fraction)	mg/kg	--	--	--	--
Magnesium	mg/kg	330	--	--	--
Manganese	mg/kg	12	--	--	--
Mercury	mg/kg	0.090 J	--	--	--
Nickel	mg/kg	20	--	--	--
Potassium	mg/kg	490	--	--	--
Selenium	mg/kg	11	--	--	--
Silver	mg/kg	0.15 J	--	--	--
Sodium	mg/kg	350	--	--	--
Thallium	mg/kg	1.8	--	--	--
Vanadium	mg/kg	51	--	--	--
Zinc	mg/kg	23	--	--	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH166-17**	**BH168-17**	**BH172-17**	**BH173-17**
	Sample Name:	**S-38443-121917-JC-013**	**S-38443-122117-JC-024**	**S-38443-120817-JC-007**	**S-38443-122117-JC-021**
	Sample Date:	**12/19/2017**	**12/21/2017**	**12/08/2017**	**12/21/2017**
	Depth:	**18-20 ft BGS**	**12.5-14.5 ft BGS**	**12-14 ft BGS**	**5-7 ft BGS**
Parameters	**Unit**				
General Chemistry					
Cyanide (total)	mg/kg	0.12 J	--	--	--

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
NJ - Tentatively identified compound, estimated concentration
PCBs - Polychlorinated Biphenyls
R - Rejected
-- - Not applicable

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH173-17**	**BH173-17**	**BH175-17**	**BH175-17**
	Sample Name:	**S-38443-122117-JC-022**	**S-38443-122117-JC-023**	**S-38443-121817-JC-008**	**S-38443-121817-JC-009**
	Sample Date:	**12/21/2017**	**12/21/2017**	**12/18/2017**	**12/18/2017**
	Depth:	**17.5-19.5 ft BGS**	**17.5-19.5 ft BGS**	**13-15 ft BGS**	**15.5-17.5 ft BGS**
			Duplicate		
Parameters	**Unit**				
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/kg	36 U	37 U	--	0.23 U
1,1,2,2-Tetrachloroethane	µg/kg	31 U	32 U	--	R
1,1,2-Trichloroethane	µg/kg	29 U	31 U	--	0.40 U
1,1-Dichloroethane	µg/kg	39 U	41 U	--	0.34 U
1,1-Dichloroethene	µg/kg	46 UJ	48 UJ	--	0.55 U
1,2,4-Trichlorobenzene	µg/kg	33 U	35 U	--	R
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	61 U	64 U	--	R
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	29 U	31 U	--	0.36 U
1,2-Dichlorobenzene	µg/kg	23 U	24 U	--	R
1,2-Dichloroethane	µg/kg	38 U	40 U	--	0.30 U
1,2-Dichloropropane	µg/kg	38 U	40 U	--	0.32 U
1,3-Dichlorobenzene	µg/kg	48 U	51 U	--	R
1,4-Dichlorobenzene	µg/kg	34 U	36 U	--	R
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	64 U	66 U	--	1.3 U
2-Hexanone	µg/kg	110 U	110 U	--	0.59 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	51 U	53 U	--	0.91 U
Acetone	µg/kg	120 U	130 U	--	26 U
Benzene	µg/kg	31 U	32 U	--	0.33 U
Bromodichloromethane	µg/kg	23 U	24 U	--	0.34 U
Bromoform	µg/kg	29 UJ	31 UJ	--	0.41 U
Bromomethane (Methyl bromide)	µg/kg	36 U	37 U	--	0.60 U
Carbon disulfide	µg/kg	23 U	24 U	--	0.21 U
Carbon tetrachloride	µg/kg	34 U	36 U	--	0.25 U
Chlorobenzene	µg/kg	130 U	132 U	--	0.34 U
Chloroethane	µg/kg	36 U	37 U	--	0.39 U
Chloroform (Trichloromethane)	µg/kg	31 U	32 U	--	0.23 U
Chloromethane (Methyl chloride)	µg/kg	23 U	24 U	--	0.39 U
cis-1,2-Dichloroethene	µg/kg	45 U	47 U	--	0.29 U
cis-1,3-Dichloropropene	µg/kg	29 U	31 U	--	0.26 U
Cyclohexane	µg/kg	38 UJ	40 UJ	--	0.21 U
Dibromochloromethane	µg/kg	43 U	45 U	--	0.31 U
Dichlorodifluoromethane (CFC-12)	µg/kg	28 U	29 U	--	0.36 U
Ethylbenzene	µg/kg	45 U	47 U	--	0.27 U
Isopropyl benzene	µg/kg	43 U	45 U	--	0.20 U
Methyl acetate	µg/kg	95 U	100 U	--	1.2 U
Methyl cyclohexane	µg/kg	47 UJ	49 UJ	--	0.23 U
Methyl tert butyl ether (MTBE)	µg/kg	33 U	35 U	--	0.27 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH173-17**	**BH173-17**	**BH175-17**	**BH175-17**
	Sample Name:	**S-38443-122117-JC-022**	**S-38443-122117-JC-023**	**S-38443-121817-JC-008**	**S-38443-121817-JC-009**
	Sample Date:	**12/21/2017**	**12/21/2017**	**12/18/2017**	**12/18/2017**
	Depth:	**17.5-19.5 ft BGS**	**17.5-19.5 ft BGS**	**13-15 ft BGS**	**15.5-17.5 ft BGS**
			Duplicate		
Parameters	**Unit**				
Volatile Organic Compounds					
Methylene chloride	µg/kg	89 J	110 J	--	0.24 U
Styrene	µg/kg	13 U	13 U	--	0.27 U
Tetrachloroethene	µg/kg	1100	650	--	0.38 U
Toluene	µg/kg	56 U	32 U	--	0.35 U
trans-1,2-Dichloroethene	µg/kg	45 U	47 U	--	0.39 U
trans-1,3-Dichloropropene	µg/kg	19 UJ	20 UJ	--	0.21 U
Trichloroethene	µg/kg	130 J	49 U	--	0.42 U
Trichlorofluoromethane (CFC-11)	µg/kg	43 U	45 U	--	0.24 U
Trifluorotrichloroethane (CFC-113)	µg/kg	29 UJ	31 UJ	--	0.50 U
Vinyl chloride	µg/kg	22 U	23 U	--	0.29 U
Xylenes (total)	µg/kg	36 U	37 U	--	0.41 U
Semivolatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	11 U	45 U	--	11 U
2,4,5-Trichlorophenol	µg/kg	29 U	120 U	--	29 U
2,4,6-Trichlorophenol	µg/kg	10 U	42 U	--	10 U
2,4-Dichlorophenol	µg/kg	23 U	95 U	--	23 U
2,4-Dimethylphenol	µg/kg	23 U	95 U	--	23 U
2,4-Dinitrophenol	µg/kg	25 U	100 U	--	24 U
2,4-Dinitrotoluene	µg/kg	20 U	81 U	--	20 U
2,6-Dinitrotoluene	µg/kg	25 U	100 U	--	24 U
2-Chloronaphthalene	µg/kg	0.53 U	2.1 U	--	0.52 U
2-Chlorophenol	µg/kg	9.6 U	39 U	--	9.5 U
2-Methylnaphthalene	µg/kg	39 J	130 J	--	140
2-Methylphenol	µg/kg	13 U	52 U	--	13 U
2-Nitroaniline	µg/kg	11 U	43 U	--	11 U
2-Nitrophenol	µg/kg	9.7 U	40 U	--	9.6 U
3&4-Methylphenol	µg/kg	23 U	95 U	--	23 U
3,3'-Dichlorobenzidine	µg/kg	21 U	86 U	--	21 U
3-Nitroaniline	µg/kg	19 U	76 U	--	19 U
4,6-Dinitro-2-methylphenol	µg/kg	11 U	44 U	--	11 U
4-Bromophenyl phenyl ether	µg/kg	15 U	62 U	--	15 U
4-Chloro-3-methylphenol	µg/kg	25 U	100 U	--	24 U
4-Chloroaniline	µg/kg	20 U	81 U	--	20 U
4-Chlorophenyl phenyl ether	µg/kg	15 U	62 U	--	15 U
4-Nitroaniline	µg/kg	30 U	120 U	--	30 U
4-Nitrophenol	µg/kg	20 U	81 U	--	20 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH173-17**	**BH173-17**	**BH175-17**	**BH175-17**
	Sample Name:	**S-38443-122117-JC-022**	**S-38443-122117-JC-023**	**S-38443-121817-JC-008**	**S-38443-121817-JC-009**
	Sample Date:	**12/21/2017**	**12/21/2017**	**12/18/2017**	**12/18/2017**
	Depth:	**17.5-19.5 ft BGS**	**17.5-19.5 ft BGS**	**13-15 ft BGS**	**15.5-17.5 ft BGS**
			Duplicate		
Parameters	**Unit**				
Semivolatile Organic Compounds					
Acenaphthene	µg/kg	18 J	420 J	--	0.88 U
Acenaphthylene	µg/kg	24	31 J	--	6.1 J
Acetophenone	µg/kg	11 U	44 U	--	16 J
Anthracene	µg/kg	42 J	580 J	--	31
Atrazine	µg/kg	11 U	43 U	--	11 U
Benzaldehyde	µg/kg	14 U	57 U	--	24 J
Benzo(a)anthracene	µg/kg	200 J	1800 J	--	63
Benzo(a)pyrene	µg/kg	200 J	1300 J	--	35
Benzo(b)fluoranthene	µg/kg	290 J	1900 J	--	140
Benzo(g,h,i)perylene	µg/kg	190 J	670 J	--	38
Benzo(k)fluoranthene	µg/kg	110 J	680 J	--	41
Biphenyl (1,1-Biphenyl)	µg/kg	25 J	37 J	--	33 J
bis(2-Chloroethoxy)methane	µg/kg	26 U	100 U	--	25 U
bis(2-Chloroethyl)ether	µg/kg	2.3 U	9.5 U	--	2.3 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	65 J	1300 J	--	91
Butyl benzylphthalate (BBP)	µg/kg	12 U	48 U	--	12 U
Caprolactam	µg/kg	43 U	180 U	--	43 U
Carbazole	µg/kg	32 U	490	--	31 U
Chrysene	µg/kg	220 J	1800 J	--	110
Di-n-butylphthalate (DBP)	µg/kg	29 J	71 U	--	17 U
Di-n-octyl phthalate (DnOP)	µg/kg	9.3 U	38 U	--	9.2 U
Dibenz(a,h)anthracene	µg/kg	50 J	250 J	--	0.76 U
Dibenzofuran	µg/kg	38 J	160 J	--	32 J
Diethyl phthalate	µg/kg	39 U	76 U	--	19 U
Dimethyl phthalate	µg/kg	20 U	81 U	--	20 U
Fluoranthene	µg/kg	380 J	4300 J	--	90
Fluorene	µg/kg	11 J	270 J	--	20
Hexachlorobenzene	µg/kg	2.5 U	10 U	--	2.4 U
Hexachlorobutadiene	µg/kg	6.6 U	27 U	--	13 J
Hexachlorocyclopentadiene	µg/kg	9.5 U	39 U	--	9.4 U
Hexachloroethane	µg/kg	11 U	43 U	--	10 U
Indeno(1,2,3-cd)pyrene	µg/kg	140 J	630 J	--	34
Isophorone	µg/kg	15 U	62 U	--	15 U
N-Nitrosodi-n-propylamine	µg/kg	7.4 U	30 U	--	7.3 U
N-Nitrosodiphenylamine	µg/kg	25 U	100 U	--	24 U
Naphthalene	µg/kg	39 J	150 J	--	98
Nitrobenzene	µg/kg	2.6 U	10 U	--	2.5 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH173-17**	**BH173-17**	**BH175-17**	**BH175-17**
	Sample Name:	**S-38443-122117-JC-022**	**S-38443-122117-JC-023**	**S-38443-121817-JC-008**	**S-38443-121817-JC-009**
	Sample Date:	**12/21/2017**	**12/21/2017**	**12/18/2017**	**12/18/2017**
	Depth:	**17.5-19.5 ft BGS**	**17.5-19.5 ft BGS**	**13-15 ft BGS**	**15.5-17.5 ft BGS**
			Duplicate		
Parameters	**Unit**				
Semivolatile Organic Compounds					
Pentachlorophenol	µg/kg	11 U	43 U	--	11 U
Phenanthrene	µg/kg	190 J	2600 J	--	190
Phenol	µg/kg	25 J	35 U	--	53 J
Pyrene	µg/kg	310 J	3400 J	--	78
PCBs					
Aroclor-1016 (PCB-1016)	µg/kg	26 U	27 U	--	25 U
Aroclor-1221 (PCB-1221)	µg/kg	28 U	29 U	--	27 U
Aroclor-1232 (PCB-1232)	µg/kg	27 U	28 U	--	26 U
Aroclor-1242 (PCB-1242)	µg/kg	22 U	23 U	--	22 U
Aroclor-1248 (PCB-1248)	µg/kg	28 U	29 U	--	27 U
Aroclor-1254 (PCB-1254)	µg/kg	150 J	71 J	--	37 J
Aroclor-1260 (PCB-1260)	µg/kg	26 U	27 U	--	25 U
Pesticides					
4,4'-DDD	µg/kg	6.8 NJ	38 U	--	19 U
4,4'-DDE	µg/kg	3.8 NJ	14 U	--	6.9 U
4,4'-DDT	µg/kg	16	16 U	--	8.0 U
Aldrin	µg/kg	2.8 U	28 U	--	14 U
alpha-BHC	µg/kg	1.9 U	19 U	--	9.2 U
alpha-Chlordane	µg/kg	4.5 U	44 U	--	22 U
beta-BHC	µg/kg	4.6 U	45 U	--	22 U
delta-BHC	µg/kg	1.5 U	15 U	--	7.5 U
Dieldrin	µg/kg	1.1 U	10 U	--	5.2 U
Endosulfan I	µg/kg	1.5 J	15 U	--	7.5 U
Endosulfan II	µg/kg	2.1 U	21 U	--	10 U
Endosulfan sulfate	µg/kg	1.4 U	14 U	--	6.9 U
Endrin	µg/kg	1.6 U	16 U	--	8.0 U
Endrin aldehyde	µg/kg	2.1 U	21 U	--	10 U
Endrin ketone	µg/kg	1.3 U	13 U	--	6.3 U
gamma-BHC (lindane)	µg/kg	3.4 U	34 U	--	17 U
gamma-Chlordane	µg/kg	1.8 U	17 U	--	8.6 U
Heptachlor	µg/kg	0.92 U	9.1 U	--	4.5 U
Heptachlor epoxide	µg/kg	2.8 U	28 U	--	14 U
Methoxychlor	µg/kg	1.4 U	14 U	--	6.9 U
Toxaphene	µg/kg	44 U	430 U	--	210 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH173-17**	**BH173-17**	**BH175-17**	**BH175-17**
	Sample Name:	**S-38443-122117-JC-022**	**S-38443-122117-JC-023**	**S-38443-121817-JC-008**	**S-38443-121817-JC-009**
	Sample Date:	**12/21/2017**	**12/21/2017**	**12/18/2017**	**12/18/2017**
	Depth:	**17.5-19.5 ft BGS**	**17.5-19.5 ft BGS**	**13-15 ft BGS**	**15.5-17.5 ft BGS**
			Duplicate		
Parameters	**Unit**				
Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs)					
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	--	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	--	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--	--
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--	--
Total heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--	--
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--	--
Total hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--	--
Total pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--	--
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--	--
Total tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH173-17**	**BH173-17**	**BH175-17**	**BH175-17**
	Sample Name:	**S-38443-122117-JC-022**	**S-38443-122117-JC-023**	**S-38443-121817-JC-008**	**S-38443-121817-JC-009**
	Sample Date:	**12/21/2017**	**12/21/2017**	**12/18/2017**	**12/18/2017**
	Depth:	**17.5-19.5 ft BGS**	**17.5-19.5 ft BGS**	**13-15 ft BGS**	**15.5-17.5 ft BGS**
			Duplicate		
Parameters	**Unit**				
Metals					
Aluminum	mg/kg	11000	8300	--	2100
Antimony	mg/kg	16	41	--	0.34 J
Arsenic	mg/kg	26	26	--	12
Barium	mg/kg	1300	860	--	63
Beryllium	mg/kg	0.72	0.78	--	0.41
Cadmium	mg/kg	18	21	--	0.63
Calcium	mg/kg	40000	31000	--	580
Chromium	mg/kg	290	110	7.1	23
Chromium III (trivalent)	mg/kg	270	110	7.1	23
Chromium VI (hexavalent)	mg/kg	16	6.1 J	1.6 U	0.28 U
Cobalt	mg/kg	53	21	--	3.7
Copper	mg/kg	3600	1400	--	47
Iron	mg/kg	81000	57000	--	34000
Lead	mg/kg	4900	3500	--	14
Lead - coarse fraction	mg/kg	--	--	--	--
Lead - fine fraction	mg/kg	--	--	--	--
Lead - total (calculated by fine/coarse fraction)	mg/kg	--	--	--	--
Magnesium	mg/kg	17000	10000	--	550
Manganese	mg/kg	760	800	--	300
Mercury	mg/kg	0.70	1.5	--	0.019 U
Nickel	mg/kg	180	93	--	25
Potassium	mg/kg	1600	1100	--	170 J
Selenium	mg/kg	2.4	2.7	--	4.6
Silver	mg/kg	3.7	3.1	--	0.069 J
Sodium	mg/kg	600	450	--	130 J
Thallium	mg/kg	0.41	0.44	--	0.23 J
Vanadium	mg/kg	170	98	--	6.0
Zinc	mg/kg	1600	1300	--	30

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH173-17**	**BH173-17**	**BH175-17**	**BH175-17**
	Sample Name:	**S-38443-122117-JC-022**	**S-38443-122117-JC-023**	**S-38443-121817-JC-008**	**S-38443-121817-JC-009**
	Sample Date:	**12/21/2017**	**12/21/2017**	**12/18/2017**	**12/18/2017**
	Depth:	**17.5-19.5 ft BGS**	**17.5-19.5 ft BGS**	**13-15 ft BGS**	**15.5-17.5 ft BGS**
			Duplicate		
Parameters	**Unit**				
General Chemistry					
Cyanide (total)	mg/kg	0.53 J	0.41 J	--	0.13 J

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
NJ - Tentatively identified compound, estimated concentration
PCBs - Polychlorinated Biphenyls
R - Rejected
-- - Not applicable

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	BH176-18	SS-98	SS-102	SS-102
	Sample Name:	S-38443-051618-JC-072	S-38443-053118-JC-114	S-38443-053018-JC-104	S-38443-053018-JC-105
	Sample Date:	05/16/2018	05/31/2018	05/30/2018	05/30/2018
	Depth:	18-20 ft BGS	0-2 ft BGS	0-2 ft BGS	0-2 ft BGS Duplicate
Parameters	**Unit**				
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/kg	0.20 U	0.74 U	1.3 UJ	0.77 U
1,1,2,2-Tetrachloroethane	µg/kg	0.23 U	1.3 U	R	1.4 U
1,1,2-Trichloroethane	µg/kg	0.35 U	1.0 U	1.9 UJ	1.1 U
1,1-Dichloroethane	µg/kg	0.29 U	0.63 U	1.1 UJ	0.65 U
1,1-Dichloroethene	µg/kg	0.48 U	0.82 U	1.5 UJ	0.85 U
1,2,4-Trichlorobenzene	µg/kg	0.21 U	0.52 U	R	0.54 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	0.60 U	3.3 U	R	3.4 U
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	0.31 U	0.70 U	1.3 UJ	0.73 U
1,2-Dichlorobenzene	µg/kg	0.20 U	1.0 U	R	1.0 U
1,2-Dichloroethane	µg/kg	0.26 U	0.70 U	1.3 UJ	0.73 U
1,2-Dichloropropane	µg/kg	0.27 U	0.77 U	1.4 UJ	0.80 U
1,3-Dichlorobenzene	µg/kg	0.26 U	0.74 U	R	0.77 U
1,4-Dichlorobenzene	µg/kg	0.31 U	0.80 U	R	0.83 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	1.1 U	5.1 J	5.9 UJ	3.4 U
2-Hexanone	µg/kg	0.51 U	3.7 U	6.7 UJ	3.9 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	0.79 U	3.4 U	6.1 UJ	3.5 U
Acetone	µg/kg	2.7 U	28	35 UJ	20 U
Benzene	µg/kg	0.28 U	0.63 U	1.1 UJ	0.66 U
Bromodichloromethane	µg/kg	0.29 U	0.62 U	1.1 UJ	0.64 U
Bromoform	µg/kg	0.35 U	2.2 U	4.0 UJ	2.3 U
Bromomethane (Methyl bromide)	µg/kg	0.52 U	0.90 U	1.6 UJ	0.93 U
Carbon disulfide	µg/kg	0.19 U	1.1 U	1.9 UJ	1.1 U
Carbon tetrachloride	µg/kg	0.22 U	3.0 U	5.4 UJ	3.1 U
Chlorobenzene	µg/kg	0.29 U	0.83 U	1.5 UJ	0.86 U
Chloroethane	µg/kg	0.34 U	1.1 U	2.0 UJ	1.2 U
Chloroform (Trichloromethane)	µg/kg	0.20 U	0.72 U	1.3 UJ	0.74 U
Chloromethane (Methyl chloride)	µg/kg	0.34 U	0.95 U	1.7 UJ	0.98 U
cis-1,2-Dichloroethene	µg/kg	0.25 U	0.59 U	1.1 UJ	0.61 U
cis-1,3-Dichloropropene	µg/kg	0.23 U	1.3 U	2.4 UJ	1.4 U
Cyclohexane	µg/kg	0.19 U	1.2 U	2.3 UJ	1.3 U
Dibromochloromethane	µg/kg	0.27 U	2.5 U	4.6 UJ	2.6 U
Dichlorodifluoromethane (CFC-12)	µg/kg	0.31 U	0.86 U	1.6 UJ	0.89 U
Ethylbenzene	µg/kg	0.24 U	0.95 U	1.7 UJ	0.99 U
Isopropyl benzene	µg/kg	0.18 U	0.76 U	1.4 UJ	0.79 U
Methyl acetate	µg/kg	1.0 U	3.1 U	5.6 UJ	3.2 U
Methyl cyclohexane	µg/kg	0.20 U	1.1 U	2.0 UJ	1.2 U
Methyl tert butyl ether (MTBE)	µg/kg	0.24 U	0.74 U	1.3 UJ	0.77 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	BH176-18	SS-98	SS-102	SS-102
	Sample Name:	S-38443-051618-JC-072	S-38443-053118-JC-114	S-38443-053018-JC-104	S-38443-053018-JC-105
	Sample Date:	05/16/2018	05/31/2018	05/30/2018	05/30/2018
	Depth:	18-20 ft BGS	0-2 ft BGS	0-2 ft BGS	0-2 ft BGS Duplicate
Parameters	**Unit**				
Volatile Organic Compounds					
Methylene chloride	µg/kg	0.21 U	11 U	20 UJ	11 U
Styrene	µg/kg	0.24 U	1.1 U	1.9 UJ	1.1 U
Tetrachloroethene	µg/kg	0.33 U	0.66 U	1.2 UJ	0.69 U
Toluene	µg/kg	0.30 U	0.70 U	1.3 UJ	0.73 U
trans-1,2-Dichloroethene	µg/kg	0.34 U	0.42 U	0.77 UJ	0.44 U
trans-1,3-Dichloropropene	µg/kg	0.19 U	0.94 U	1.7 UJ	0.98 U
Trichloroethene	µg/kg	0.81 J	0.58 U	1.0 UJ	0.60 U
Trichlorofluoromethane (CFC-11)	µg/kg	0.21 U	0.98 U	1.8 UJ	1.0 U
Trifluorotrichloroethane (CFC-113)	µg/kg	0.43 U	1.2 U	2.1 UJ	1.2 U
Vinyl chloride	µg/kg	0.25 U	0.76 U	1.4 UJ	0.79 U
Xylenes (total)	µg/kg	0.35 U	1.4 U	2.6 UJ	1.5 U
Semivolatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	12 U	11 U	26 U	11 U
2,4,5-Trichlorophenol	µg/kg	83 U	77 U	180 U	73 U
2,4,6-Trichlorophenol	µg/kg	77 U	72 U	170 U	68 U
2,4-Dichlorophenol	µg/kg	53 U	49 U	120 U	47 U
2,4-Dimethylphenol	µg/kg	48 U	45 U	110 U	43 U
2,4-Dinitrophenol	µg/kg	170 U	160 U	370 U	150 U
2,4-Dinitrotoluene	µg/kg	74 U	70 U	160 U	66 U
2,6-Dinitrotoluene	µg/kg	67 U	63 U	150 U	60 U
2-Chloronaphthalene	µg/kg	17 U	16 U	37 U	15 U
2-Chlorophenol	µg/kg	12 U	11 U	26 U	11 U
2-Methylnaphthalene	µg/kg	7.2 J	36	100	45
2-Methylphenol	µg/kg	37 U	35 U	82 U	33 U
2-Nitroaniline	µg/kg	48 U	45 U	110 U	43 U
2-Nitrophenol	µg/kg	16 U	15 U	34 U	14 U
3&4-Methylphenol	µg/kg	35 U	33 U	76 U	31 U
3,3'-Dichlorobenzidine	µg/kg	52 U	48 U	110 U	46 U
3-Nitroaniline	µg/kg	59 U	55 U	130 U	52 U
4,6-Dinitro-2-methylphenol	µg/kg	96 U	90 U	210 U	85 U
4-Bromophenyl phenyl ether	µg/kg	17 U	16 U	37 U	15 U
4-Chloro-3-methylphenol	µg/kg	54 U	50 U	120 U	48 U
4-Chloroaniline	µg/kg	36 U	34 U	79 U	32 U
4-Chlorophenyl phenyl ether	µg/kg	17 U	16 U	37 U	15 U
4-Nitroaniline	µg/kg	72 U	67 U	160 U	64 U
4-Nitrophenol	µg/kg	110 U	110 U	250 U	100 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH176-18**	**SS-98**	**SS-102**	**SS-102**
	Sample Name:	**S-38443-051618-JC-072**	**S-38443-053118-JC-114**	**S-38443-053018-JC-104**	**S-38443-053018-JC-105**
	Sample Date:	**05/16/2018**	**05/31/2018**	**05/30/2018**	**05/30/2018**
	Depth:	**18-20 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
					Duplicate
Parameters	**Unit**				
Semivolatile Organic Compounds					
Acenaphthene	µg/kg	5.8 J	6.8 J	98	99
Acenaphthylene	µg/kg	0.42 U	21	60	69
Acetophenone	µg/kg	13 U	12 J	29 U	12 U
Anthracene	µg/kg	11	15	160	180
Atrazine	µg/kg	43 U	40 U	95 U	38 U
Benzaldehyde	µg/kg	28 U	26 U	61 U	24 U
Benzo(a)anthracene	µg/kg	28	47	680	670
Benzo(a)pyrene	µg/kg	23	70	1600	950
Benzo(b)fluoranthene	µg/kg	30	94	2100	1400
Benzo(g,h,i)perylene	µg/kg	18	150	560	300
Benzo(k)fluoranthene	µg/kg	15	38	670	430
Biphenyl (1,1-Biphenyl)	µg/kg	20 U	19 U	45 U	18 U
bis(2-Chloroethoxy)methane	µg/kg	14 U	13 U	32 U	13 U
bis(2-Chloroethyl)ether	µg/kg	14 U	13 U	32 U	13 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	61 U	57 U	130 U	54 U
Butyl benzylphthalate (BBP)	µg/kg	26 U	25 U	58 U	23 U
Caprolactam	µg/kg	90 U	84 U	200 U	80 U
Carbazole	µg/kg	23 U	21 U	88 J	100
Chrysene	µg/kg	30	61	790	720
Di-n-butylphthalate (DBP)	µg/kg	26 U	25 U	58 U	23 U
Di-n-octyl phthalate (DnOP)	µg/kg	34 U	31 U	74 U	30 U
Dibenz(a,h)anthracene	µg/kg	0.79 U	0.74 U	160	75
Dibenzofuran	µg/kg	16 U	15 U	56 J	44 J
Diethyl phthalate	µg/kg	37 U	35 U	82 U	33 U
Dimethyl phthalate	µg/kg	17 U	16 U	37 U	15 U
Fluoranthene	µg/kg	62	84	1700	1800
Fluorene	µg/kg	5.8 J	7.9	69	72
Hexachlorobenzene	µg/kg	2.5 U	2.4 U	5.5 U	2.2 U
Hexachlorobutadiene	µg/kg	14 U	13 U	32 U	13 U
Hexachlorocyclopentadiene	µg/kg	74 U	70 U	160 U	66 U
Hexachloroethane	µg/kg	11 U	10 U	24 U	9.6 U
Indeno(1,2,3-cd)pyrene	µg/kg	10	38	570	300
Isophorone	µg/kg	14 U	13 U	32 U	13 U
N-Nitrosodi-n-propylamine	µg/kg	13 U	12 U	29 U	12 U
N-Nitrosodiphenylamine	µg/kg	14 U	13 U	32 U	13 U
Naphthalene	µg/kg	8.9	34	69	33
Nitrobenzene	µg/kg	16 U	15 U	34 U	14 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH176-18**	**SS-98**	**SS-102**	**SS-102**
	Sample Name:	**S-38443-051618-JC-072**	**S-38443-053118-JC-114**	**S-38443-053018-JC-104**	**S-38443-053018-JC-105**
	Sample Date:	**05/16/2018**	**05/31/2018**	**05/30/2018**	**05/30/2018**
	Depth:	**18-20 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS Duplicate**
Parameters	**Unit**				
Semivolatile Organic Compounds					
Pentachlorophenol	µg/kg	70 U	65 U	150 U	62 U
Phenanthrene	µg/kg	49	54	540	610
Phenol	µg/kg	9.6 U	9.0 U	21 U	8.5 U
Pyrene	µg/kg	51	94	1500	1400
PCBs					
Aroclor-1016 (PCB-1016)	µg/kg	26 U	25 U	24 U	23 U
Aroclor-1221 (PCB-1221)	µg/kg	28 U	27 U	26 U	25 U
Aroclor-1232 (PCB-1232)	µg/kg	27 U	26 U	25 U	24 U
Aroclor-1242 (PCB-1242)	µg/kg	23 U	21 U	21 U	20 U
Aroclor-1248 (PCB-1248)	µg/kg	28 U	27 U	26 U	25 U
Aroclor-1254 (PCB-1254)	µg/kg	27 U	26 U	25 U	78
Aroclor-1260 (PCB-1260)	µg/kg	26 U	25 U	24 U	23 U
Pesticides					
4,4'-DDD	µg/kg	1.8 U	1.7 U	16 U	16 U
4,4'-DDE	µg/kg	1.8 U	1.7 U	16 U	16 U
4,4'-DDT	µg/kg	1.4 U	1.3 U	12 U	12 U
Aldrin	µg/kg	0.93 U	0.87 U	8.3 U	8.2 U
alpha-BHC	µg/kg	1.1 U	1.0 U	9.8 U	9.7 U
alpha-Chlordane	µg/kg	1.8 U	1.7 U	16 U	16 U
beta-BHC	µg/kg	2.1 U	2.0 U	19 U	18 U
delta-BHC	µg/kg	2.0 U	1.9 U	18 U	18 U
Dieldrin	µg/kg	1.3 U	1.2 U	12 U	12 U
Endosulfan I	µg/kg	1.4 U	1.4 U	13 U	13 U
Endosulfan II	µg/kg	1.8 U	1.7 U	16 U	16 U
Endosulfan sulfate	µg/kg	1.5 U	1.5 U	14 U	14 U
Endrin	µg/kg	2.3 U	2.2 U	20 U	20 U
Endrin aldehyde	µg/kg	1.6 U	1.5 U	14 U	14 U
Endrin ketone	µg/kg	1.1 U	1.0 U	9.6 U	9.5 U
gamma-BHC (lindane)	µg/kg	2.2 U	2.0 U	19 U	19 U
gamma-Chlordane	µg/kg	1.5 U	1.4 U	13 U	13 U
Heptachlor	µg/kg	1.9 U	1.8 U	17 U	17 U
Heptachlor epoxide	µg/kg	1.7 U	1.6 U	16 U	15 U
Methoxychlor	µg/kg	7.9 U	7.4 U	71 UJ	70 UJ
Toxaphene	µg/kg	30 U	28 U	270 U	270 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH176-18**	**SS-98**	**SS-102**	**SS-102**
	Sample Name:	**S-38443-051618-JC-072**	**S-38443-053118-JC-114**	**S-38443-053018-JC-104**	**S-38443-053018-JC-105**
	Sample Date:	**05/16/2018**	**05/31/2018**	**05/30/2018**	**05/30/2018**
	Depth:	**18-20 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
					Duplicate
Parameters	**Unit**				
Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs)					
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	--	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	--	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--	--
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--	--
Total heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--	--
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--	--
Total hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--	--
Total pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--	--
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--	--
Total tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH176-18**	**SS-98**	**SS-102**	**SS-102**
	Sample Name:	**S-38443-051618-JC-072**	**S-38443-053118-JC-114**	**S-38443-053018-JC-104**	**S-38443-053018-JC-105**
	Sample Date:	**05/16/2018**	**05/31/2018**	**05/30/2018**	**05/30/2018**
	Depth:	**18-20 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS Duplicate**
Parameters	**Unit**				
Metals					
Aluminum	mg/kg	12000	5500	4800	4800
Antimony	mg/kg	1.9 J	1.2	0.23 J	0.25 J
Arsenic	mg/kg	11	5.2	7.2	6.9
Barium	mg/kg	110 J	77	58	62
Beryllium	mg/kg	0.72	0.25	0.41	0.38
Cadmium	mg/kg	0.43	0.52	0.44	0.31
Calcium	mg/kg	11000	57000	72000	90000
Chromium	mg/kg	14	140	9.3	14
Chromium III (trivalent)	mg/kg	14	140	8.8	14
Chromium VI (hexavalent)	mg/kg	1.4 U	0.27 U	0.44 J	0.26 U
Cobalt	mg/kg	7.2	5.6	4.1	4.6
Copper	mg/kg	19	960	19	20
Iron	mg/kg	20000	18000	10000	13000
Lead	mg/kg	28 J	120	38	51
Lead - coarse fraction	mg/kg	--	--	--	--
Lead - fine fraction	mg/kg	--	--	--	--
Lead - total (calculated by fine/coarse fraction)	mg/kg	--	--	--	--
Magnesium	mg/kg	7200	47000	30000	32000
Manganese	mg/kg	620	420	230	460
Mercury	mg/kg	0.032 J	0.047 J	0.057 J	0.043 J
Nickel	mg/kg	16	700	11	11
Potassium	mg/kg	1100	600	600	600
Selenium	mg/kg	0.43 J	0.29 J	0.71 J	0.73 J
Silver	mg/kg	0.041 J	0.52	0.051 J	0.051 J
Sodium	mg/kg	65 J	140 J	120 J	130 J
Thallium	mg/kg	0.19 J	0.080 J	0.17	0.15 J
Vanadium	mg/kg	27	14	18	26
Zinc	mg/kg	65	260	58	67

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**BH176-18**	**SS-98**	**SS-102**	**SS-102**
	Sample Name:	**S-38443-051618-JC-072**	**S-38443-053118-JC-114**	**S-38443-053018-JC-104**	**S-38443-053018-JC-105**
	Sample Date:	**05/16/2018**	**05/31/2018**	**05/30/2018**	**05/30/2018**
	Depth:	**18-20 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
					Duplicate
Parameters	**Unit**				
General Chemistry					
Cyanide (total)	mg/kg	0.24 U	0.26 J	0.18 U	0.18 U

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
NJ - Tentatively identified compound, estimated concentration
PCBs - Polychlorinated Biphenyls
R - Rejected
-- - Not applicable

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**SS-103**	**SS-104**	**SS-109**	**SS-112**
	Sample Name:	**S-38443-053018-JC-102**	**S-38443-053018-JC-100**	**S-38443-053018-JC-109**	**S-38443-053018-JC-107**
	Sample Date:	**05/30/2018**	**05/30/2018**	**05/30/2018**	**05/30/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**				
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/kg	0.97 U	1.0 U	1.1 UJ	1.0 U
1,1,2,2-Tetrachloroethane	µg/kg	R	R	R	1.8 U
1,1,2-Trichloroethane	µg/kg	1.3 U	1.4 U	1.5 UJ	1.4 U
1,1-Dichloroethane	µg/kg	0.82 U	0.87 U	0.90 UJ	0.85 U
1,1-Dichloroethene	µg/kg	1.1 U	1.1 U	1.2 UJ	1.1 U
1,2,4-Trichlorobenzene	µg/kg	R	R	R	0.70 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	R	R	R	4.4 U
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	0.91 U	0.97 U	1.0 UJ	0.95 U
1,2-Dichlorobenzene	µg/kg	R	R	R	1.4 U
1,2-Dichloroethane	µg/kg	0.92 U	0.97 U	1.0 UJ	0.95 U
1,2-Dichloropropane	µg/kg	1.0 U	1.1 U	1.1 UJ	1.0 U
1,3-Dichlorobenzene	µg/kg	R	R	R	1.0 U
1,4-Dichlorobenzene	µg/kg	R	R	R	1.1 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	4.2 U	4.5 U	5.3 J	4.4 U
2-Hexanone	µg/kg	4.8 U	5.1 U	5.3 UJ	5.0 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	4.4 U	4.7 U	4.8 UJ	4.6 U
Acetone	µg/kg	25 U	26 U	35 J	57
Benzene	µg/kg	0.83 U	0.88 U	0.91 UJ	0.86 U
Bromodichloromethane	µg/kg	0.81 U	0.85 U	0.89 UJ	0.83 U
Bromoform	µg/kg	2.8 U	3.0 U	3.1 UJ	3.0 U
Bromomethane (Methyl bromide)	µg/kg	1.2 U	1.2 U	1.3 UJ	1.2 U
Carbon disulfide	µg/kg	1.4 U	1.5 U	1.5 UJ	1.4 U
Carbon tetrachloride	µg/kg	3.9 U	4.1 U	4.2 UJ	4.0 U
Chlorobenzene	µg/kg	1.1 U	1.2 U	1.2 UJ	1.1 U
Chloroethane	µg/kg	1.4 U	1.5 U	1.6 UJ	1.5 U
Chloroform (Trichloromethane)	µg/kg	0.94 U	0.99 U	1.0 UJ	0.97 U
Chloromethane (Methyl chloride)	µg/kg	1.2 U	1.3 U	1.4 UJ	1.3 U
cis-1,2-Dichloroethene	µg/kg	0.77 U	0.82 U	0.85 UJ	0.80 U
cis-1,3-Dichloropropene	µg/kg	1.7 U	1.8 U	1.9 UJ	1.8 U
Cyclohexane	µg/kg	1.6 U	1.7 U	1.8 UJ	1.7 U
Dibromochloromethane	µg/kg	3.3 U	3.5 U	3.6 UJ	3.4 U
Dichlorodifluoromethane (CFC-12)	µg/kg	1.1 U	1.2 U	1.2 UJ	1.2 U
Ethylbenzene	µg/kg	1.2 U	1.3 U	1.4 UJ	1.3 U
Isopropyl benzene	µg/kg	0.99 U	1.0 U	1.1 UJ	1.0 U
Methyl acetate	µg/kg	4.0 U	4.3 U	4.4 UJ	4.2 U
Methyl cyclohexane	µg/kg	1.5 U	1.5 U	1.6 UJ	1.5 U
Methyl tert butyl ether (MTBE)	µg/kg	0.97 U	1.0 U	1.1 UJ	1.0 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**SS-103**	**SS-104**	**SS-109**	**SS-112**
	Sample Name:	**S-38443-053018-JC-102**	**S-38443-053018-JC-100**	**S-38443-053018-JC-109**	**S-38443-053018-JC-107**
	Sample Date:	**05/30/2018**	**05/30/2018**	**05/30/2018**	**05/30/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**				
Volatile Organic Compounds					
Methylene chloride	µg/kg	14 U	15 U	16 UJ	15 U
Styrene	µg/kg	1.4 U	1.5 U	1.5 UJ	1.4 U
Tetrachloroethene	µg/kg	1.6 J	0.92 U	0.95 UJ	0.90 U
Toluene	µg/kg	0.92 U	0.97 U	1.0 UJ	0.95 U
trans-1,2-Dichloroethene	µg/kg	0.55 U	0.58 U	0.61 UJ	0.57 U
trans-1,3-Dichloropropene	µg/kg	1.2 U	1.3 U	1.3 UJ	1.3 U
Trichloroethene	µg/kg	0.75 U	0.79 U	0.83 UJ	0.78 U
Trichlorofluoromethane (CFC-11)	µg/kg	1.3 U	1.4 U	1.4 UJ	1.3 U
Trifluorotrichloroethane (CFC-113)	µg/kg	1.5 U	1.6 U	1.7 UJ	1.6 U
Vinyl chloride	µg/kg	0.99 U	1.1 U	1.1 UJ	1.0 U
Xylenes (total)	µg/kg	1.9 U	2.0 U	2.1 UJ	1.9 U
Semivolatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	12 U	14 U	15 U	13 U
2,4,5-Trichlorophenol	µg/kg	83 U	97 U	100 U	87 U
2,4,6-Trichlorophenol	µg/kg	77 U	90 U	96 U	80 U
2,4-Dichlorophenol	µg/kg	53 U	62 U	66 U	55 U
2,4-Dimethylphenol	µg/kg	48 U	56 U	60 U	50 U
2,4-Dinitrophenol	µg/kg	170 U	200 U	210 U	180 U
2,4-Dinitrotoluene	µg/kg	75 U	87 U	93 U	78 U
2,6-Dinitrotoluene	µg/kg	68 U	79 U	84 U	70 U
2-Chloronaphthalene	µg/kg	17 U	20 U	21 U	18 U
2-Chlorophenol	µg/kg	12 U	14 U	15 U	13 U
2-Methylnaphthalene	µg/kg	66	62	45	13
2-Methylphenol	µg/kg	37 U	43 U	47 U	39 U
2-Nitroaniline	µg/kg	48 U	56 U	60 U	50 U
2-Nitrophenol	µg/kg	16 U	18 U	20 U	16 U
3&4-Methylphenol	µg/kg	35 U	41 U	44 U	36 U
3,3'-Dichlorobenzidine	µg/kg	52 U	60 U	65 U	54 U
3-Nitroaniline	µg/kg	59 U	69 U	74 U	62 U
4,6-Dinitro-2-methylphenol	µg/kg	97 U	110 U	120 U	100 U
4-Bromophenyl phenyl ether	µg/kg	17 U	20 U	21 U	18 U
4-Chloro-3-methylphenol	µg/kg	54 U	63 U	68 U	57 U
4-Chloroaniline	µg/kg	36 U	42 U	45 U	38 U
4-Chlorophenyl phenyl ether	µg/kg	17 U	20 U	21 U	18 U
4-Nitroaniline	µg/kg	72 U	84 U	90 U	75 U
4-Nitrophenol	µg/kg	110 U	130 U	140 U	120 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**SS-103**	**SS-104**	**SS-109**	**SS-112**
	Sample Name:	**S-38443-053018-JC-102**	**S-38443-053018-JC-100**	**S-38443-053018-JC-109**	**S-38443-053018-JC-107**
	Sample Date:	**05/30/2018**	**05/30/2018**	**05/30/2018**	**05/30/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**				
Semivolatile Organic Compounds					
Acenaphthene	µg/kg	55	1.1 U	1.1 U	0.95 U
Acenaphthylene	µg/kg	93	26	5.4 J	0.44 U
Acetophenone	µg/kg	13 U	15 U	21 J	14 U
Anthracene	µg/kg	78	47	9.8 J	0.98 U
Atrazine	µg/kg	43 U	51 U	54 U	45 U
Benzaldehyde	µg/kg	28 U	32 U	35 U	29 U
Benzo(a)anthracene	µg/kg	190	160	37	9.3
Benzo(a)pyrene	µg/kg	210	180	40	6.3 J
Benzo(b)fluoranthene	µg/kg	270	270	67	9.1
Benzo(g,h,i)perylene	µg/kg	87	100	26	0.44 U
Benzo(k)fluoranthene	µg/kg	100	84	1.0 U	0.85 U
Biphenyl (1,1-Biphenyl)	µg/kg	21 U	24 U	26 U	21 U
bis(2-Chloroethoxy)methane	µg/kg	14 U	17 U	18 U	15 U
bis(2-Chloroethyl)ether	µg/kg	14 U	17 U	18 U	15 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	62 U	72 U	77 U	64 U
Butyl benzylphthalate (BBP)	µg/kg	27 U	31 U	33 U	28 U
Caprolactam	µg/kg	90 U	110 U	110 U	94 U
Carbazole	µg/kg	37 J	27 U	29 U	24 U
Chrysene	µg/kg	190	190	48	1.4 U
Di-n-butylphthalate (DBP)	µg/kg	27 U	31 U	33 U	28 U
Di-n-octyl phthalate (DnOP)	µg/kg	34 U	39 U	42 U	35 U
Dibenz(a,h)anthracene	µg/kg	22	0.93 U	0.99 U	0.83 U
Dibenzofuran	µg/kg	71	21 J	20 U	16 U
Diethyl phthalate	µg/kg	37 U	43 U	47 U	39 U
Dimethyl phthalate	µg/kg	17 U	20 U	21 U	18 U
Fluoranthene	µg/kg	490	470	100	22
Fluorene	µg/kg	63	22	0.80 U	0.67 U
Hexachlorobenzene	µg/kg	2.5 U	2.9 U	3.2 U	2.6 U
Hexachlorobutadiene	µg/kg	14 U	17 U	18 U	15 U
Hexachlorocyclopentadiene	µg/kg	75 U	87 U	93 U	78 U
Hexachloroethane	µg/kg	11 U	13 U	14 U	11 U
Indeno(1,2,3-cd)pyrene	µg/kg	76	87	25	0.44 U
Isophorone	µg/kg	14 U	17 U	18 U	15 U
N-Nitrosodi-n-propylamine	µg/kg	13 U	15 U	17 U	14 U
N-Nitrosodiphenylamine	µg/kg	14 U	17 U	18 U	15 U
Naphthalene	µg/kg	42	60	51	15
Nitrobenzene	µg/kg	16 U	18 U	20 U	16 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**SS-103**	**SS-104**	**SS-109**	**SS-112**
	Sample Name:	**S-38443-053018-JC-102**	**S-38443-053018-JC-100**	**S-38443-053018-JC-109**	**S-38443-053018-JC-107**
	Sample Date:	**05/30/2018**	**05/30/2018**	**05/30/2018**	**05/30/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**				
Semivolatile Organic Compounds					
Pentachlorophenol	µg/kg	70 U	81 U	87 U	73 U
Phenanthrene	µg/kg	360	240	62	19
Phenol	µg/kg	9.7 U	11 U	12 U	10 U
Pyrene	µg/kg	360	340	80	19
PCBs					
Aroclor-1016 (PCB-1016)	µg/kg	26 U	30 U	34 U	28 U
Aroclor-1221 (PCB-1221)	µg/kg	29 U	33 U	37 U	31 U
Aroclor-1232 (PCB-1232)	µg/kg	27 U	32 U	35 U	30 U
Aroclor-1242 (PCB-1242)	µg/kg	23 U	26 U	29 U	24 U
Aroclor-1248 (PCB-1248)	µg/kg	29 U	33 U	37 U	31 U
Aroclor-1254 (PCB-1254)	µg/kg	87	32 U	35 U	30 U
Aroclor-1260 (PCB-1260)	µg/kg	26 U	30 U	34 U	28 U
Pesticides					
4,4'-DDD	µg/kg	35 U	2.1 U	23 U	1.9 U
4,4'-DDE	µg/kg	36 U	2.1 U	23 U	1.9 U
4,4'-DDT	µg/kg	27 U	1.6 U	17 U	1.4 U
Aldrin	µg/kg	18 U	1.1 U	12 U	0.98 U
alpha-BHC	µg/kg	22 U	1.3 U	14 U	1.2 U
alpha-Chlordane	µg/kg	36 U	2.1 U	23 U	1.9 U
beta-BHC	µg/kg	41 U	2.4 U	26 U	2.2 U
delta-BHC	µg/kg	40 U	2.3 U	26 U	2.2 U
Dieldrin	µg/kg	26 U	1.5 U	17 U	1.4 U
Endosulfan I	µg/kg	29 U	1.7 U	18 U	1.5 U
Endosulfan II	µg/kg	35 U	2.1 U	23 U	1.9 U
Endosulfan sulfate	µg/kg	31 U	1.8 U	20 U	1.6 U
Endrin	µg/kg	45 U	2.6 U	29 U	2.4 U
Endrin aldehyde	µg/kg	31 U	1.8 U	20 U	1.7 U
Endrin ketone	µg/kg	21 U	1.2 U	14 U	1.1 U
gamma-BHC (lindane)	µg/kg	43 U	2.5 U	27 U	2.3 U
gamma-Chlordane	µg/kg	29 U	1.7 U	19 U	1.6 U
Heptachlor	µg/kg	38 U	2.2 U	24 U	2.0 U
Heptachlor epoxide	µg/kg	34 U	2.0 U	22 U	1.8 U
Methoxychlor	µg/kg	160 UJ	9.1 UJ	100 UJ	8.4 UJ
Toxaphene	µg/kg	600 U	35 U	380 U	32 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**SS-103**	**SS-104**	**SS-109**	**SS-112**
	Sample Name:	**S-38443-053018-JC-102**	**S-38443-053018-JC-100**	**S-38443-053018-JC-109**	**S-38443-053018-JC-107**
	Sample Date:	**05/30/2018**	**05/30/2018**	**05/30/2018**	**05/30/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**				
Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs)					
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	--	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	--	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--	--
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--	--
Total heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--	--
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--	--
Total hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--	--
Total pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--	--
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--	--
Total tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**SS-103**	**SS-104**	**SS-109**	**SS-112**
	Sample Name:	**S-38443-053018-JC-102**	**S-38443-053018-JC-100**	**S-38443-053018-JC-109**	**S-38443-053018-JC-107**
	Sample Date:	**05/30/2018**	**05/30/2018**	**05/30/2018**	**05/30/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**				
Metals					
Aluminum	mg/kg	9400	9300	9800	4600
Antimony	mg/kg	0.56 J	0.66 J	0.60 J	0.45 J
Arsenic	mg/kg	20	33	59	28
Barium	mg/kg	230	230	350	96
Beryllium	mg/kg	1.9	4.1	3.2	1.5
Cadmium	mg/kg	0.30	0.44	0.32	0.16 J
Calcium	mg/kg	100000	32000	11000	70000
Chromium	mg/kg	12	18	16	11
Chromium III (trivalent)	mg/kg	12	16	16	11
Chromium VI (hexavalent)	mg/kg	0.29 U	1.5	0.36 U	0.90 J
Cobalt	mg/kg	7.7	12	9.3	7.8
Copper	mg/kg	37	40	38	24
Iron	mg/kg	11000	12000	15000	10000
Lead	mg/kg	45	53	22	13
Lead - coarse fraction	mg/kg	41 J	--	--	--
Lead - fine fraction	mg/kg	31	--	--	--
Lead - total (calculated by fine/coarse fraction)	mg/kg	37	--	--	--
Magnesium	mg/kg	27000	12000	3600	25000
Manganese	mg/kg	280	170	91	210
Mercury	mg/kg	0.15	0.38	0.50	0.13
Nickel	mg/kg	18	28	21	17
Potassium	mg/kg	1100	1500	2200	730
Selenium	mg/kg	3.0	4.7	6.3	2.6
Silver	mg/kg	0.20 J	0.082 J	0.064 J	0.038 J
Sodium	mg/kg	230	240	290	140 J
Thallium	mg/kg	0.59	1.1	2.7	0.69
Vanadium	mg/kg	31	42	44	28
Zinc	mg/kg	79	50	36	34

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**SS-103**	**SS-104**	**SS-109**	**SS-112**
	Sample Name:	**S-38443-053018-JC-102**	**S-38443-053018-JC-100**	**S-38443-053018-JC-109**	**S-38443-053018-JC-107**
	Sample Date:	**05/30/2018**	**05/30/2018**	**05/30/2018**	**05/30/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**				
General Chemistry					
Cyanide (total)	mg/kg	0.26 J	0.28 J	0.31 U	0.24 U

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
NJ - Tentatively identified compound, estimated concentration
PCBs - Polychlorinated Biphenyls
R - Rejected
-- - Not applicable

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**SS-116**	**SS-120**	**SS-123**	**SS-138**
	Sample Name:	**S-38443-053018-JC-111**	**S-38443-053118-JC-118**	**S-38443-053118-JC-116**	**S-38443-051718-JC-080**
	Sample Date:	**05/30/2018**	**05/31/2018**	**05/31/2018**	**05/17/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**				
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/kg	1.5 U	1.6 UJ	0.85 U	1.0 J
1,1,2,2-Tetrachloroethane	µg/kg	R	R	1.5 U	R
1,1,2-Trichloroethane	µg/kg	2.1 U	2.2 UJ	1.2 U	0.63 UJ
1,1-Dichloroethane	µg/kg	1.3 U	1.3 UJ	0.72 U	0.53 U
1,1-Dichloroethene	µg/kg	1.6 U	1.7 UJ	0.94 U	0.88 U
1,2,4-Trichlorobenzene	µg/kg	R	R	0.59 U	R
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	R	R	3.7 U	R
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	1.4 U	1.5 UJ	0.80 U	0.57 UJ
1,2-Dichlorobenzene	µg/kg	R	R	1.2 U	R
1,2-Dichloroethane	µg/kg	1.4 U	1.5 UJ	0.80 U	0.47 U
1,2-Dichloropropane	µg/kg	1.5 U	1.6 UJ	0.88 U	0.50 U
1,3-Dichlorobenzene	µg/kg	R	R	0.85 U	R
1,4-Dichlorobenzene	µg/kg	R	R	0.92 U	R
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	6.4 U	6.8 UJ	3.7 U	2.1 U
2-Hexanone	µg/kg	7.4 U	7.9 UJ	4.2 U	0.94 UJ
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	6.7 U	7.1 UJ	3.9 U	1.4 U
Acetone	µg/kg	180 J	67 J	29	5.0 U
Benzene	µg/kg	1.3 U	1.3 UJ	0.73 U	0.52 U
Bromodichloromethane	µg/kg	1.2 U	1.3 UJ	0.71 U	0.53 U
Bromoform	µg/kg	4.3 U	4.6 UJ	2.5 U	0.65 UJ
Bromomethane (Methyl bromide)	µg/kg	1.8 U	1.9 UJ	1.0 U	0.96 U
Carbon disulfide	µg/kg	2.1 U	2.2 UJ	1.2 U	0.34 U
Carbon tetrachloride	µg/kg	5.9 U	6.3 UJ	3.4 U	0.41 U
Chlorobenzene	µg/kg	1.7 U	1.8 UJ	0.95 U	0.53 UJ
Chloroethane	µg/kg	2.2 U	2.3 UJ	1.3 U	0.62 U
Chloroform (Trichloromethane)	µg/kg	1.4 U	1.5 UJ	0.82 U	0.37 U
Chloromethane (Methyl chloride)	µg/kg	1.9 U	2.0 UJ	1.1 U	0.62 U
cis-1,2-Dichloroethene	µg/kg	1.2 U	1.3 UJ	0.68 U	0.45 U
cis-1,3-Dichloropropene	µg/kg	2.6 U	2.8 UJ	1.5 U	0.42 U
Cyclohexane	µg/kg	2.5 U	2.6 UJ	1.4 U	0.34 U
Dibromochloromethane	µg/kg	5.0 U	5.4 UJ	2.9 U	0.49 UJ
Dichlorodifluoromethane (CFC-12)	µg/kg	1.7 U	1.8 UJ	0.98 U	0.57 U
Ethylbenzene	µg/kg	1.9 U	2.0 UJ	1.1 U	0.44 UJ
Isopropyl benzene	µg/kg	1.5 U	1.6 UJ	0.86 U	0.32 UJ
Methyl acetate	µg/kg	6.2 U	6.5 UJ	3.5 U	1.9 U
Methyl cyclohexane	µg/kg	2.2 U	2.4 UJ	1.3 U	0.37 U
Methyl tert butyl ether (MTBE)	µg/kg	1.5 U	1.6 UJ	0.85 U	0.44 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**SS-116**	**SS-120**	**SS-123**	**SS-138**
	Sample Name:	**S-38443-053018-JC-111**	**S-38443-053118-JC-118**	**S-38443-053118-JC-116**	**S-38443-051718-JC-080**
	Sample Date:	**05/30/2018**	**05/31/2018**	**05/31/2018**	**05/17/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**				
Volatile Organic Compounds					
Methylene chloride	µg/kg	22 U	23 UJ	12 U	0.39 U
Styrene	µg/kg	2.1 U	2.2 UJ	1.2 U	0.44 UJ
Tetrachloroethene	µg/kg	3.5 J	1.4 UJ	0.76 U	0.60 UJ
Toluene	µg/kg	1.4 U	1.5 J	0.80 U	0.55 UJ
trans-1,2-Dichloroethene	µg/kg	0.84 U	0.90 UJ	0.48 U	0.62 U
trans-1,3-Dichloropropene	µg/kg	1.9 U	2.0 UJ	1.1 U	0.34 UJ
Trichloroethene	µg/kg	1.1 U	1.2 UJ	0.66 U	0.66 U
Trichlorofluoromethane (CFC-11)	µg/kg	2.0 U	2.1 UJ	1.1 U	0.39 U
Trifluorotrichloroethane (CFC-113)	µg/kg	2.3 U	2.5 UJ	1.3 U	0.79 U
Vinyl chloride	µg/kg	1.5 U	1.6 UJ	0.87 U	0.45 U
Xylenes (total)	µg/kg	2.9 U	3.1 UJ	1.6 U	0.65 UJ
Semivolatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	11 U	23 U	24 U	16 U
2,4,5-Trichlorophenol	µg/kg	79 U	160 U	160 U	110 U
2,4,6-Trichlorophenol	µg/kg	73 U	150 U	150 U	100 U
2,4-Dichlorophenol	µg/kg	50 U	100 U	100 U	72 U
2,4-Dimethylphenol	µg/kg	46 U	93 U	94 U	66 U
2,4-Dinitrophenol	µg/kg	160 U	330 U	330 U	230 U
2,4-Dinitrotoluene	µg/kg	71 U	140 U	150 U	100 U
2,6-Dinitrotoluene	µg/kg	64 U	130 U	130 U	92 U
2-Chloronaphthalene	µg/kg	16 U	32 U	33 U	23 U
2-Chlorophenol	µg/kg	11 U	23 U	24 U	16 U
2-Methylnaphthalene	µg/kg	300	1200	34	11
2-Methylphenol	µg/kg	36 U	72 U	73 U	51 U
2-Nitroaniline	µg/kg	46 U	93 U	94 U	66 U
2-Nitrophenol	µg/kg	15 U	30 U	31 U	21 U
3&4-Methylphenol	µg/kg	33 U	67 U	68 U	48 U
3,3'-Dichlorobenzidine	µg/kg	49 U	99 U	100 U	71 U
3-Nitroaniline	µg/kg	56 U	110 U	120 U	80 U
4,6-Dinitro-2-methylphenol	µg/kg	92 U	190 U	190 U	130 U
4-Bromophenyl phenyl ether	µg/kg	16 U	32 U	33 U	23 U
4-Chloro-3-methylphenol	µg/kg	52 U	100 U	110 U	74 U
4-Chloroaniline	µg/kg	34 U	69 U	71 U	49 U
4-Chlorophenyl phenyl ether	µg/kg	16 U	32 U	33 U	23 U
4-Nitroaniline	µg/kg	69 U	140 U	140 U	98 U
4-Nitrophenol	µg/kg	110 U	220 U	220 U	150 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**SS-116**	**SS-120**	**SS-123**	**SS-138**
	Sample Name:	**S-38443-053018-JC-111**	**S-38443-053118-JC-118**	**S-38443-053118-JC-116**	**S-38443-051718-JC-080**
	Sample Date:	**05/30/2018**	**05/31/2018**	**05/31/2018**	**05/17/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**				
Semivolatile Organic Compounds					
Acenaphthene	µg/kg	0.87 U	1.8 U	67	1.2 U
Acenaphthylene	µg/kg	9.1	0.81 U	95	0.57 U
Acetophenone	µg/kg	13 U	95 J	26 U	18 U
Anthracene	µg/kg	15	44	250	1.3 U
Atrazine	µg/kg	41 U	83 U	85 U	59 U
Benzaldehyde	µg/kg	26 U	94 J	54 U	57 J
Benzo(a)anthracene	µg/kg	34	130	940	11
Benzo(a)pyrene	µg/kg	35	100	880	8.7 J
Benzo(b)fluoranthene	µg/kg	55	170	1400	15
Benzo(g,h,i)perylene	µg/kg	25	100	520	7.9 J
Benzo(k)fluoranthene	µg/kg	0.78 U	50	510	1.1 U
Biphenyl (1,1-Biphenyl)	µg/kg	28 J	120	40 U	28 U
bis(2-Chloroethoxy)methane	µg/kg	14 U	28 U	28 U	20 U
bis(2-Chloroethyl)ether	µg/kg	14 U	28 U	28 U	20 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	58 U	320	120 U	84 U
Butyl benzylphthalate (BBP)	µg/kg	25 U	51 U	52 U	36 U
Caprolactam	µg/kg	86 U	170 U	180 U	120 U
Carbazole	µg/kg	22 U	44 U	98 J	31 U
Chrysene	µg/kg	48	170	900	12
Di-n-butylphthalate (DBP)	µg/kg	25 U	53 J	52 U	36 U
Di-n-octyl phthalate (DnOP)	µg/kg	32 U	65 U	66 U	46 U
Dibenz(a,h)anthracene	µg/kg	0.76 U	1.5 U	1.6 U	1.1 U
Dibenzofuran	µg/kg	63	290	62 J	21 U
Diethyl phthalate	µg/kg	36 U	72 U	73 U	51 U
Dimethyl phthalate	µg/kg	16 U	32 U	33 U	23 U
Fluoranthene	µg/kg	60	160	2000	28 J
Fluorene	µg/kg	0.61 U	1.2 U	84	0.87 U
Hexachlorobenzene	µg/kg	2.4 U	4.9 U	4.9 U	3.4 U
Hexachlorobutadiene	µg/kg	14 U	28 U	28 U	20 U
Hexachlorocyclopentadiene	µg/kg	71 U	140 U	150 U	100 U
Hexachloroethane	µg/kg	10 U	21 U	21 U	15 U
Indeno(1,2,3-cd)pyrene	µg/kg	0.40 U	47	400	5.5 J
Isophorone	µg/kg	14 U	28 U	28 U	20 U
N-Nitrosodi-n-propylamine	µg/kg	13 U	25 U	26 U	18 U
N-Nitrosodiphenylamine	µg/kg	14 U	28 U	28 U	20 U
Naphthalene	µg/kg	210	740	38	12
Nitrobenzene	µg/kg	15 U	30 U	31 U	21 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**SS-116**	**SS-120**	**SS-123**	**SS-138**
	Sample Name:	**S-38443-053018-JC-111**	**S-38443-053118-JC-118**	**S-38443-053118-JC-116**	**S-38443-051718-JC-080**
	Sample Date:	**05/30/2018**	**05/31/2018**	**05/31/2018**	**05/17/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**				
Semivolatile Organic Compounds					
Pentachlorophenol	µg/kg	67 U	130 U	140 U	95 U
Phenanthrene	µg/kg	140	670	1200	22
Phenol	µg/kg	9.2 U	19 U	19 U	27 J
Pyrene	µg/kg	50	190	1800	25 J
PCBs					
Aroclor-1016 (PCB-1016)	µg/kg	26 U	25 U	27 U	36 U
Aroclor-1221 (PCB-1221)	µg/kg	28 U	27 U	30 U	39 U
Aroclor-1232 (PCB-1232)	µg/kg	27 U	26 U	29 U	38 U
Aroclor-1242 (PCB-1242)	µg/kg	22 U	22 U	24 U	31 U
Aroclor-1248 (PCB-1248)	µg/kg	28 U	27 U	30 U	39 U
Aroclor-1254 (PCB-1254)	µg/kg	27 U	26 U	29 U	38 U
Aroclor-1260 (PCB-1260)	µg/kg	26 U	25 U	27 U	36 U
Pesticides					
4,4'-DDD	µg/kg	3.7 J	14	17 U	2.5 U
4,4'-DDE	µg/kg	1.8 U	1.8 U	18 U	2.5 U
4,4'-DDT	µg/kg	1.3 U	1.3 U	13 U	1.9 UJ
Aldrin	µg/kg	0.90 U	0.91 U	8.9 U	1.3 U
alpha-BHC	µg/kg	1.1 U	1.1 U	11 U	1.5 U
alpha-Chlordane	µg/kg	1.8 U	1.8 U	17 U	2.5 U
beta-BHC	µg/kg	2.0 U	2.0 U	20 U	2.9 U
delta-BHC	µg/kg	2.0 U	2.0 U	20 U	2.8 U
Dieldrin	µg/kg	1.3 U	1.3 U	13 U	1.8 U
Endosulfan I	µg/kg	1.4 U	1.4 U	14 U	2.0 U
Endosulfan II	µg/kg	1.7 U	3.7 J	17 U	2.5 U
Endosulfan sulfate	µg/kg	1.5 U	1.5 U	15 U	2.1 U
Endrin	µg/kg	2.2 U	2.2 U	22 U	3.2 U
Endrin aldehyde	µg/kg	1.5 U	1.8 NJ	15 U	2.2 U
Endrin ketone	µg/kg	1.0 U	3.6 J	10 U	1.5 U
gamma-BHC (lindane)	µg/kg	2.1 U	2.1 U	21 U	3.0 U
gamma-Chlordane	µg/kg	1.4 U	1.5 U	14 U	2.0 U
Heptachlor	µg/kg	1.9 U	1.9 U	18 U	2.6 U
Heptachlor epoxide	µg/kg	1.7 U	1.7 U	17 U	2.4 U
Methoxychlor	µg/kg	7.7 UJ	7.8 U	76 U	11 UJ
Toxaphene	µg/kg	29 U	30 U	290 U	42 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**SS-116**	**SS-120**	**SS-123**	**SS-138**
	Sample Name:	**S-38443-053018-JC-111**	**S-38443-053118-JC-118**	**S-38443-053118-JC-116**	**S-38443-051718-JC-080**
	Sample Date:	**05/30/2018**	**05/31/2018**	**05/31/2018**	**05/17/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**				
Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs)					
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	--	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	--	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--	--
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--	--
Total heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--	--
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--	--
Total hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--	--
Total pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--	--
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--	--
Total tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**SS-116**	**SS-120**	**SS-123**	**SS-138**
	Sample Name:	**S-38443-053018-JC-111**	**S-38443-053118-JC-118**	**S-38443-053118-JC-116**	**S-38443-051718-JC-080**
	Sample Date:	**05/30/2018**	**05/31/2018**	**05/31/2018**	**05/17/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**				
Metals					
Aluminum	mg/kg	1900	1600	5100	13000 J
Antimony	mg/kg	0.14 UJ	0.14 U	0.20 J	0.66 J
Arsenic	mg/kg	5.5	6.6	5.4	31
Barium	mg/kg	72	89	45	270
Beryllium	mg/kg	0.89	0.73	0.32	4.4
Cadmium	mg/kg	0.047 U	0.057 J	0.28	0.20 J
Calcium	mg/kg	1900	2300	62000	100000
Chromium	mg/kg	5.1	4.7	11	15
Chromium III (trivalent)	mg/kg	4.8	3.9	11	14
Chromium VI (hexavalent)	mg/kg	0.29 J	0.89 J	0.29 U	1.3
Cobalt	mg/kg	4.8	3.8	3.6	12
Copper	mg/kg	17	15	14	44
Iron	mg/kg	4600	5000	11000	11000
Lead	mg/kg	1.7	4.7	21	25
Lead - coarse fraction	mg/kg	--	--	--	--
Lead - fine fraction	mg/kg	--	--	310	--
Lead - total (calculated by fine/coarse fraction)	mg/kg	--	--	--	--
Magnesium	mg/kg	340	520	55000	3700
Manganese	mg/kg	31	45	470	130 J
Mercury	mg/kg	0.031 J	0.021 U	0.024 J	0.19
Nickel	mg/kg	8.2	9.2	9.1	29
Potassium	mg/kg	200 J	250	720	1100
Selenium	mg/kg	0.43 J	0.37 J	0.33 J	5.3
Silver	mg/kg	0.024 U	0.024 U	0.031 J	0.092 J
Sodium	mg/kg	100 J	68 J	220	140 J
Thallium	mg/kg	0.063 J	0.13 J	0.10 J	0.95
Vanadium	mg/kg	11	10	16	56
Zinc	mg/kg	4.9	9.2	58	32

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**SS-116**	**SS-120**	**SS-123**	**SS-138**
	Sample Name:	**S-38443-053018-JC-111**	**S-38443-053118-JC-118**	**S-38443-053118-JC-116**	**S-38443-051718-JC-080**
	Sample Date:	**05/30/2018**	**05/31/2018**	**05/31/2018**	**05/17/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**				
General Chemistry					
Cyanide (total)	mg/kg	0.48 J	0.79	0.24 J	0.79 J

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
NJ - Tentatively identified compound, estimated concentration
PCBs - Polychlorinated Biphenyls
R - Rejected
-- - Not applicable

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**SS-138**	**SS-139**	**SS-140**	**SS-142**
	Sample Name:	**S-38443-051718-JC-081**	**S-38443-051718-JC-076**	**S-38443-051718-JC-078**	**S-38443-052918-JC-085**
	Sample Date:	**05/17/2018**	**05/17/2018**	**05/17/2018**	**05/29/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
		Duplicate			
Parameters	**Unit**				
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/kg	94 J	0.41 UJ	50 UJ	0.90 U
1,1,2,2-Tetrachloroethane	µg/kg	R	R	43 UJ	1.6 U
1,1,2-Trichloroethane	µg/kg	R	R	41 UJ	1.2 U
1,1-Dichloroethane	µg/kg	R	0.59 UJ	56 UJ	0.76 U
1,1-Dichloroethene	µg/kg	R	0.97 UJ	65 UJ	0.99 U
1,2,4-Trichlorobenzene	µg/kg	R	R	47 UJ	0.62 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	R	R	86 UJ	3.9 U
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	R	R	41 UJ	0.84 U
1,2-Dichlorobenzene	µg/kg	R	R	32 UJ	1.2 U
1,2-Dichloroethane	µg/kg	R	0.52 UJ	54 UJ	0.84 U
1,2-Dichloropropane	µg/kg	R	0.56 UJ	54 UJ	0.93 U
1,3-Dichlorobenzene	µg/kg	R	R	68 UJ	0.89 U
1,4-Dichlorobenzene	µg/kg	R	R	49 UJ	0.96 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	R	2.3 UJ	90 UJ	3.9 U
2-Hexanone	µg/kg	R	R	150 UJ	4.5 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	R	1.6 UJ	72 UJ	4.1 U
Acetone	µg/kg	R	5.5 UJ	170 UJ	23 U
Benzene	µg/kg	R	0.58 UJ	43 UJ	0.76 U
Bromodichloromethane	µg/kg	R	0.59 UJ	32 UJ	0.74 U
Bromoform	µg/kg	R	R	41 UJ	2.6 U
Bromomethane (Methyl bromide)	µg/kg	R	1.1 UJ	50 UJ	1.1 U
Carbon disulfide	µg/kg	R	0.38 UJ	32 UJ	1.3 U
Carbon tetrachloride	µg/kg	R	0.45 UJ	49 UJ	3.6 U
Chlorobenzene	µg/kg	R	R	54 UJ	1.0 U
Chloroethane	µg/kg	R	0.68 UJ	50 UJ	1.3 U
Chloroform (Trichloromethane)	µg/kg	R	0.41 UJ	43 UJ	0.86 U
Chloromethane (Methyl chloride)	µg/kg	R	0.68 UJ	32 UJ	1.1 U
cis-1,2-Dichloroethene	µg/kg	R	0.50 UJ	63 UJ	0.71 U
cis-1,3-Dichloropropene	µg/kg	R	0.47 UJ	41 UJ	1.6 U
Cyclohexane	µg/kg	R	0.38 UJ	54 UJ	1.5 U
Dibromochloromethane	µg/kg	R	R	61 UJ	3.0 U
Dichlorodifluoromethane (CFC-12)	µg/kg	R	0.63 UJ	40 UJ	1.0 U
Ethylbenzene	µg/kg	R	R	63 UJ	1.1 U
Isopropyl benzene	µg/kg	R	R	61 UJ	0.91 U
Methyl acetate	µg/kg	R	2.1 UJ	130 UJ	3.7 U
Methyl cyclohexane	µg/kg	R	0.55 J	67 UJ	1.3 U
Methyl tert butyl ether (MTBE)	µg/kg	R	0.49 UJ	47 UJ	0.90 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**SS-138**	**SS-139**	**SS-140**	**SS-142**
	Sample Name:	**S-38443-051718-JC-081**	**S-38443-051718-JC-076**	**S-38443-051718-JC-078**	**S-38443-052918-JC-085**
	Sample Date:	**05/17/2018**	**05/17/2018**	**05/17/2018**	**05/29/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
		Duplicate			
Parameters	**Unit**				
Volatile Organic Compounds					
Methylene chloride	µg/kg	R	0.43 UJ	120 UJ	13 U
Styrene	µg/kg	R	R	18 UJ	1.3 U
Tetrachloroethene	µg/kg	R	R	72 J	0.80 U
Toluene	µg/kg	R	R	43 UJ	0.84 U
trans-1,2-Dichloroethene	µg/kg	R	0.68 UJ	63 UJ	0.51 U
trans-1,3-Dichloropropene	µg/kg	R	R	27 UJ	1.1 U
Trichloroethene	µg/kg	R	0.74 UJ	67 UJ	0.69 U
Trichlorofluoromethane (CFC-11)	µg/kg	R	0.43 UJ	61 UJ	1.2 U
Trifluorotrichloroethane (CFC-113)	µg/kg	R	0.88 UJ	41 UJ	1.4 U
Vinyl chloride	µg/kg	R	0.50 UJ	31 UJ	0.91 U
Xylenes (total)	µg/kg	R	R	50 UJ	1.7 U
Semivolatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	16 U	11 U	14 U	46 U
2,4,5-Trichlorophenol	µg/kg	110 U	77 U	96 U	320 U
2,4,6-Trichlorophenol	µg/kg	110 U	71 U	89 U	290 U
2,4-Dichlorophenol	µg/kg	72 U	49 U	61 U	200 U
2,4-Dimethylphenol	µg/kg	66 U	44 U	56 U	180 U
2,4-Dinitrophenol	µg/kg	230 U	160 U	200 U	650 U
2,4-Dinitrotoluene	µg/kg	100 U	69 U	86 U	280 U
2,6-Dinitrotoluene	µg/kg	92 U	62 U	78 U	260 U
2-Chloronaphthalene	µg/kg	23 U	16 U	20 U	64 U
2-Chlorophenol	µg/kg	16 U	11 U	14 U	46 U
2-Methylnaphthalene	µg/kg	14	240	6.4 J	2.3 U
2-Methylphenol	µg/kg	51 U	34 U	43 U	140 U
2-Nitroaniline	µg/kg	66 U	44 U	56 U	180 UJ
2-Nitrophenol	µg/kg	21 U	14 U	18 U	59 U
3&4-Methylphenol	µg/kg	48 U	32 U	40 U	130 U
3,3'-Dichlorobenzidine	µg/kg	71 U	48 U	60 U	200 U
3-Nitroaniline	µg/kg	81 U	55 U	68 U	220 U
4,6-Dinitro-2-methylphenol	µg/kg	130 U	89 U	110 U	370 U
4-Bromophenyl phenyl ether	µg/kg	23 U	16 U	20 U	64 U
4-Chloro-3-methylphenol	µg/kg	74 U	50 U	63 U	210 U
4-Chloroaniline	µg/kg	49 U	33 U	42 U	140 U
4-Chlorophenyl phenyl ether	µg/kg	23 U	16 U	20 U	64 U
4-Nitroaniline	µg/kg	99 U	67 U	84 U	270 U
4-Nitrophenol	µg/kg	150 U	100 U	130 U	430 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**SS-138**	**SS-139**	**SS-140**	**SS-142**
	Sample Name:	**S-38443-051718-JC-081**	**S-38443-051718-JC-076**	**S-38443-051718-JC-078**	**S-38443-052918-JC-085**
	Sample Date:	**05/17/2018**	**05/17/2018**	**05/17/2018**	**05/29/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
		Duplicate			
Parameters	**Unit**				
Semivolatile Organic Compounds					
Acenaphthene	µg/kg	1.3 U	0.85 U	1.1 U	3.5 U
Acenaphthylene	µg/kg	0.58 U	8.8	0.49 U	25 J
Acetophenone	µg/kg	18 U	25 J	15 U	50 U
Anthracene	µg/kg	7.3 J	13	1.1 U	120
Atrazine	µg/kg	59 U	40 U	50 U	160 U
Benzaldehyde	µg/kg	120 J	39 J	32 UJ	110 UJ
Benzo(a)anthracene	µg/kg	27	65	14	660
Benzo(a)pyrene	µg/kg	27	55	12	690
Benzo(b)fluoranthene	µg/kg	38	94	20	1000
Benzo(g,h,i)perylene	µg/kg	20	64	11	400
Benzo(k)fluoranthene	µg/kg	12	28	7.1 J	410
Biphenyl (1,1-Biphenyl)	µg/kg	28 U	25 J	24 U	78 U
bis(2-Chloroethoxy)methane	µg/kg	20 U	13 U	17 U	55 U
bis(2-Chloroethyl)ether	µg/kg	20 U	13 U	17 U	55 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	110 J	57 U	71 U	4700
Butyl benzylphthalate (BBP)	µg/kg	36 U	24 U	31 U	100 U
Caprolactam	µg/kg	120 U	83 U	100 U	340 U
Carbazole	µg/kg	31 U	21 U	26 U	87 U
Chrysene	µg/kg	28	97	17	730
Di-n-butylphthalate (DBP)	µg/kg	36 U	26 J	250	100 U
Di-n-octyl phthalate (DnOP)	µg/kg	46 U	31 U	39 U	130 U
Dibenz(a,h)anthracene	µg/kg	1.1 U	12	0.92 U	130
Dibenzofuran	µg/kg	21 U	67	18 U	59 U
Diethyl phthalate	µg/kg	51 U	34 U	43 U	140 U
Dimethyl phthalate	µg/kg	23 U	16 U	20 U	64 U
Fluoranthene	µg/kg	63 J	99	33	1200
Fluorene	µg/kg	0.87 U	8.5	0.74 U	43
Hexachlorobenzene	µg/kg	3.5 U	2.3 U	2.9 U	9.6 U
Hexachlorobutadiene	µg/kg	20 U	13 U	17 U	55 U
Hexachlorocyclopentadiene	µg/kg	100 U	69 U	86 U	280 U
Hexachloroethane	µg/kg	15 U	10 U	13 U	41 U
Indeno(1,2,3-cd)pyrene	µg/kg	13	32	7.0 J	350
Isophorone	µg/kg	20 U	13 U	17 U	55 UJ
N-Nitrosodi-n-propylamine	µg/kg	18 U	12 U	15 U	50 UJ
N-Nitrosodiphenylamine	µg/kg	20 U	13 U	17 U	55 U
Naphthalene	µg/kg	17	150	10	21 J
Nitrobenzene	µg/kg	21 U	14 U	18 U	59 UJ

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**SS-138**	**SS-139**	**SS-140**	**SS-142**
	Sample Name:	**S-38443-051718-JC-081**	**S-38443-051718-JC-076**	**S-38443-051718-JC-078**	**S-38443-052918-JC-085**
	Sample Date:	**05/17/2018**	**05/17/2018**	**05/17/2018**	**05/29/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
		Duplicate			
Parameters	**Unit**				
Semivolatile Organic Compounds					
Pentachlorophenol	µg/kg	95 U	65 UJ	81 U	260 U
Phenanthrene	µg/kg	37	210	15	490
Phenol	µg/kg	13 J	8.9 U	11 U	37 U
Pyrene	µg/kg	57 J	100	29	1100
PCBs					
Aroclor-1016 (PCB-1016)	µg/kg	36 U	24 U	30 U	25 U
Aroclor-1221 (PCB-1221)	µg/kg	39 U	27 U	33 U	27 U
Aroclor-1232 (PCB-1232)	µg/kg	37 U	25 U	32 U	26 U
Aroclor-1242 (PCB-1242)	µg/kg	31 U	21 U	26 U	21 U
Aroclor-1248 (PCB-1248)	µg/kg	39 U	27 U	33 U	27 U
Aroclor-1254 (PCB-1254)	µg/kg	37 U	25 U	32 U	110
Aroclor-1260 (PCB-1260)	µg/kg	36 U	24 U	30 U	25 U
Pesticides					
4,4'-DDD	µg/kg	2.8 NJ	1.8 J	2.1 U	1.7 U
4,4'-DDE	µg/kg	2.5 U	1.6 U	2.1 U	1.7 U
4,4'-DDT	µg/kg	1.8 UJ	2.5 J	1.6 UJ	2.3 NJ
Aldrin	µg/kg	1.3 U	0.83 U	1.1 U	0.86 U
alpha-BHC	µg/kg	1.5 U	0.98 U	1.3 U	1.0 U
alpha-Chlordane	µg/kg	2.4 U	1.6 U	2.1 U	1.7 U
beta-BHC	µg/kg	2.8 U	1.9 U	2.4 U	1.9 U
delta-BHC	µg/kg	2.7 U	1.8 U	2.4 U	1.9 U
Dieldrin	µg/kg	1.8 U	1.2 U	1.5 U	1.2 U
Endosulfan I	µg/kg	1.9 U	1.3 U	1.7 U	1.3 U
Endosulfan II	µg/kg	2.4 U	1.6 U	2.1 U	1.7 U
Endosulfan sulfate	µg/kg	2.1 U	1.4 U	1.8 U	1.4 U
Endrin	µg/kg	3.1 U	2.0 U	2.7 U	2.1 U
Endrin aldehyde	µg/kg	2.1 U	1.4 U	1.8 U	1.5 U
Endrin ketone	µg/kg	1.4 U	0.96 U	1.2 U	1.4 NJ
gamma-BHC (lindane)	µg/kg	2.9 U	1.9 U	2.5 U	2.0 U
gamma-Chlordane	µg/kg	2.0 U	1.3 U	1.7 U	2.8 J
Heptachlor	µg/kg	2.6 U	1.7 U	2.2 U	1.8 U
Heptachlor epoxide	µg/kg	2.3 U	1.6 U	2.0 U	1.6 U
Methoxychlor	µg/kg	11 UJ	7.1 UJ	9.2 UJ	7.3 UJ
Toxaphene	µg/kg	41 U	27 U	35 U	28 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**SS-138**	**SS-139**	**SS-140**	**SS-142**
	Sample Name:	**S-38443-051718-JC-081**	**S-38443-051718-JC-076**	**S-38443-051718-JC-078**	**S-38443-052918-JC-085**
	Sample Date:	**05/17/2018**	**05/17/2018**	**05/17/2018**	**05/29/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
		Duplicate			
Parameters	**Unit**				
Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs)					
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	--	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	--	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--	--
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--	--
Total heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--	--
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--	--
Total hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--	--
Total pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--	--
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--	--
Total tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--	--

Table 2

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	Sample Date:	**05/17/2018**	**05/17/2018**	**05/17/2018**	**05/29/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
		Duplicate			
Parameters	**Unit**				
Metals					
Aluminum	mg/kg	15000 J	4800 J	7500 J	7100
Antimony	mg/kg	0.82 J	0.23 J	12 J	0.56 J
Arsenic	mg/kg	33	7.4	50	7.3
Barium	mg/kg	420	54	420	91
Beryllium	mg/kg	5.2	0.51	3.2	0.51
Cadmium	mg/kg	0.30	0.32	0.29	0.92
Calcium	mg/kg	73000	47000	52000	51000
Chromium	mg/kg	16	10	17	21
Chromium III (trivalent)	mg/kg	15	9.9	17	21
Chromium VI (hexavalent)	mg/kg	1.1 J	0.51 J	0.54 J	0.28 U
Cobalt	mg/kg	16	5.2	27	5.6
Copper	mg/kg	54	16	35	92
Iron	mg/kg	17000	11000	12000	14000
Lead	mg/kg	35	20	25	57
Lead - coarse fraction	mg/kg	--	--	--	33 J
Lead - fine fraction	mg/kg	--	--	--	50
Lead - total (calculated by fine/coarse fraction)	mg/kg	--	--	--	36
Magnesium	mg/kg	8900	19000	21000	21000
Manganese	mg/kg	230 J	320 J	280 J	370
Mercury	mg/kg	0.23	0.040 J	0.25	0.026 J
Nickel	mg/kg	34	12	51	33
Potassium	mg/kg	2200	590	1200	790
Selenium	mg/kg	5.3	0.43 J	4.0	0.53 J
Silver	mg/kg	0.14 J	0.051 J	0.085 J	1.9
Sodium	mg/kg	230 J	71 J	400	160 J
Thallium	mg/kg	1.3	0.13 J	0.96	0.18 J
Vanadium	mg/kg	61	15	38	19
Zinc	mg/kg	46	53	130	74

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	Sample Name:	**S-38443-051718-JC-081**	**S-38443-051718-JC-076**	**S-38443-051718-JC-078**	**S-38443-052918-JC-085**
	Sample Date:	**05/17/2018**	**05/17/2018**	**05/17/2018**	**05/29/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
		Duplicate			
Parameters	**Unit**				
General Chemistry					
Cyanide (total)	mg/kg	0.51 J	0.67	0.26 U	0.22 U

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
NJ - Tentatively identified compound, estimated concentration
PCBs - Polychlorinated Biphenyls
R - Rejected
-- - Not applicable

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**SS-144**	**SS-145**	**SS-146**	**SS-147**
	Sample Name:	**S-38443-052918-JC-087**	**S-38443-052918-JC-089**	**S-38443-052918-JC-098**	**S-38443-052918-JC-091**
	Sample Date:	**05/29/2018**	**05/29/2018**	**05/29/2018**	**05/29/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**				
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/kg	0.71 U	0.70 U	0.73 U	0.71 U
1,1,2,2-Tetrachloroethane	µg/kg	1.2 U	1.2 U	1.3 U	1.2 U
1,1,2-Trichloroethane	µg/kg	0.97 U	0.97 U	1.0 U	0.99 U
1,1-Dichloroethane	µg/kg	0.60 U	0.59 U	0.61 U	0.60 U
1,1-Dichloroethene	µg/kg	0.78 U	0.77 U	0.80 U	0.79 U
1,2,4-Trichlorobenzene	µg/kg	0.49 U	0.49 U	0.51 U	0.50 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	3.1 U	3.1 U	3.2 U	3.1 U
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	0.66 U	0.66 U	0.68 U	0.67 U
1,2-Dichlorobenzene	µg/kg	0.96 U	0.95 U	0.98 U	0.97 U
1,2-Dichloroethane	µg/kg	0.66 U	0.66 U	0.68 U	0.67 U
1,2-Dichloropropane	µg/kg	0.73 U	0.73 U	0.75 U	0.74 U
1,3-Dichlorobenzene	µg/kg	0.70 U	0.70 U	0.72 U	0.71 U
1,4-Dichlorobenzene	µg/kg	0.76 U	0.76 U	0.78 U	0.77 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	3.1 U	3.0 U	5.4 J	8.7 J
2-Hexanone	µg/kg	3.5 U	3.5 U	3.6 U	3.6 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	3.2 U	3.2 U	3.3 U	3.2 U
Acetone	µg/kg	18 U	18 U	30	49
Benzene	µg/kg	0.60 U	0.60 U	0.62 U	0.61 U
Bromodichloromethane	µg/kg	0.58 U	0.58 U	0.60 U	0.59 U
Bromoform	µg/kg	2.1 U	2.1 U	2.1 U	2.1 U
Bromomethane (Methyl bromide)	µg/kg	0.85 U	0.85 U	0.88 U	0.86 U
Carbon disulfide	µg/kg	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	µg/kg	2.8 U	2.8 U	2.9 U	2.8 U
Chlorobenzene	µg/kg	0.79 U	0.79 U	0.81 U	0.80 U
Chloroethane	µg/kg	1.0 U	1.0 U	1.1 U	1.1 U
Chloroform (Trichloromethane)	µg/kg	0.68 U	0.68 U	0.70 U	0.69 U
Chloromethane (Methyl chloride)	µg/kg	0.90 U	0.89 U	0.92 U	0.91 U
cis-1,2-Dichloroethene	µg/kg	0.56 U	0.56 U	0.58 U	0.57 U
cis-1,3-Dichloropropene	µg/kg	1.2 U	1.2 U	1.3 U	1.3 U
Cyclohexane	µg/kg	1.2 U	1.2 U	1.2 U	1.2 U
Dibromochloromethane	µg/kg	2.4 U	2.4 U	2.5 U	2.4 U
Dichlorodifluoromethane (CFC-12)	µg/kg	0.81 U	0.81 U	0.84 U	0.82 U
Ethylbenzene	µg/kg	0.90 U	0.90 U	0.93 U	0.91 U
Isopropyl benzene	µg/kg	0.72 U	0.71 U	0.74 U	0.72 U
Methyl acetate	µg/kg	2.9 U	2.9 U	3.0 U	3.0 U
Methyl cyclohexane	µg/kg	1.1 U	1.1 U	1.1 U	1.1 U
Methyl tert butyl ether (MTBE)	µg/kg	0.71 U	0.70 U	0.73 U	0.71 U

Table 2

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	Location ID:	**SS-144**	**SS-145**	**SS-146**	**SS-147**
	Sample Name:	**S-38443-052918-JC-087**	**S-38443-052918-JC-089**	**S-38443-052918-JC-098**	**S-38443-052918-JC-091**
	Sample Date:	**05/29/2018**	**05/29/2018**	**05/29/2018**	**05/29/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**				
Volatile Organic Compounds					
Methylene chloride	µg/kg	10 U	10 U	11 U	10 U
Styrene	µg/kg	1.0 U	0.99 U	1.0 U	1.0 U
Tetrachloroethene	µg/kg	0.63 U	0.63 U	0.65 U	0.64 U
Toluene	µg/kg	0.66 U	0.66 U	0.68 U	0.67 U
trans-1,2-Dichloroethene	µg/kg	0.40 U	0.40 U	0.41 U	0.40 U
trans-1,3-Dichloropropene	µg/kg	0.89 U	0.89 U	0.92 U	0.90 U
Trichloroethene	µg/kg	0.54 U	0.54 U	0.56 U	0.55 U
Trichlorofluoromethane (CFC-11)	µg/kg	0.93 U	0.92 U	0.95 U	0.94 U
Trifluorotrichloroethane (CFC-113)	µg/kg	1.1 U	1.1 U	1.1 U	1.1 U
Vinyl chloride	µg/kg	0.72 U	0.72 U	0.74 U	0.73 U
Xylenes (total)	µg/kg	1.4 U	1.4 U	1.4 U	1.4 U
Semivolatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	11 U	28 U	4400 U	110 U
2,4,5-Trichlorophenol	µg/kg	79 U	190 U	30000 U	730 U
2,4,6-Trichlorophenol	µg/kg	73 U	180 U	28000 U	680 U
2,4-Dichlorophenol	µg/kg	50 U	120 U	19000 U	470 U
2,4-Dimethylphenol	µg/kg	46 U	110 U	18000 U	420 U
2,4-Dinitrophenol	µg/kg	160 U	400 U	63000 U	1500 U
2,4-Dinitrotoluene	µg/kg	71 U	170 U	27000 U	660 U
2,6-Dinitrotoluene	µg/kg	64 U	160 U	25000 U	590 U
2-Chloronaphthalene	µg/kg	16 U	39 U	6200 U	150 U
2-Chlorophenol	µg/kg	11 U	28 U	4400 U	110 U
2-Methylnaphthalene	µg/kg	69	100	6300	58 J
2-Methylphenol	µg/kg	36 U	87 U	14000 U	330 U
2-Nitroaniline	µg/kg	46 U	110 U	18000 UJ	420 UJ
2-Nitrophenol	µg/kg	15 U	37 U	5700 U	140 U
3&4-Methylphenol	µg/kg	33 U	82 U	13000 U	310 U
3,3'-Dichlorobenzidine	µg/kg	49 U	120 U	19000 U	450 U
3-Nitroaniline	µg/kg	56 U	140 U	22000 U	520 U
4,6-Dinitro-2-methylphenol	µg/kg	92 U	230 U	35000 U	850 U
4-Bromophenyl phenyl ether	µg/kg	16 U	39 U	6200 U	150 U
4-Chloro-3-methylphenol	µg/kg	52 U	130 U	20000 U	480 U
4-Chloroaniline	µg/kg	34 U	85 U	13000 U	320 U
4-Chlorophenyl phenyl ether	µg/kg	16 U	39 U	6200 U	150 U
4-Nitroaniline	µg/kg	69 U	170 U	26000 U	630 U
4-Nitrophenol	µg/kg	110 U	270 U	42000 U	990 U

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	Location ID:	**SS-144**	**SS-145**	**SS-146**	**SS-147**
	Sample Name:	**S-38443-052918-JC-087**	**S-38443-052918-JC-089**	**S-38443-052918-JC-098**	**S-38443-052918-JC-091**
	Sample Date:	**05/29/2018**	**05/29/2018**	**05/29/2018**	**05/29/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**				
Semivolatile Organic Compounds					
Acenaphthene	µg/kg	0.87 U	190	54000	8.0 U
Acenaphthylene	µg/kg	0.40 U	45	150 U	3.7 U
Acetophenone	µg/kg	13 U	31 U	4900 U	120 U
Anthracene	µg/kg	0.90 U	480	120000	57 J
Atrazine	µg/kg	41 U	100 U	16000 U	380 U
Benzaldehyde	µg/kg	26 U	65 U	10000 UJ	240 UJ
Benzo(a)anthracene	µg/kg	13	1100	260000	440
Benzo(a)pyrene	µg/kg	11	1100	270000	680
Benzo(b)fluoranthene	µg/kg	14	1300	330000	960
Benzo(g,h,i)perylene	µg/kg	0.40 U	790	120000	440
Benzo(k)fluoranthene	µg/kg	0.78 U	480	130000	510
Biphenyl (1,1-Biphenyl)	µg/kg	20 U	48 U	7500 U	180 U
bis(2-Chloroethoxy)methane	µg/kg	14 U	34 U	5300 U	130 U
bis(2-Chloroethyl)ether	µg/kg	14 U	34 U	5300 U	130 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	59 U	140 U	23000 U	620 J
Butyl benzylphthalate (BBP)	µg/kg	25 U	62 U	9700 U	230 U
Caprolactam	µg/kg	86 U	210 U	33000 U	790 U
Carbazole	µg/kg	22 U	130 J	92000	200 U
Chrysene	µg/kg	13	1100	250000	580
Di-n-butylphthalate (DBP)	µg/kg	25 U	62 U	9700 U	230 U
Di-n-octyl phthalate (DnOP)	µg/kg	32 U	79 U	12000 U	300 U
Dibenz(a,h)anthracene	µg/kg	0.76 U	180	39000	7.0 U
Dibenzofuran	µg/kg	16 J	100 J	30000	140 U
Diethyl phthalate	µg/kg	36 U	87 U	14000 U	330 U
Dimethyl phthalate	µg/kg	16 U	39 U	6200 U	150 U
Fluoranthene	µg/kg	19	2900	590000	800
Fluorene	µg/kg	0.61 U	150	62000	5.6 U
Hexachlorobenzene	µg/kg	2.4 U	5.9 U	930 U	22 U
Hexachlorobutadiene	µg/kg	14 U	34 U	5300 U	130 U
Hexachlorocyclopentadiene	µg/kg	71 U	170 U	27000 U	660 U
Hexachloroethane	µg/kg	10 U	25 U	4000 U	95 U
Indeno(1,2,3-cd)pyrene	µg/kg	0.40 U	610	120000	410
Isophorone	µg/kg	14 UJ	34 U	5300 UJ	130 UJ
N-Nitrosodi-n-propylamine	µg/kg	13 UJ	31 U	4900 UJ	120 UJ
N-Nitrosodiphenylamine	µg/kg	14 U	34 U	5300 U	130 U
Naphthalene	µg/kg	48	91	18000	8.7 U
Nitrobenzene	µg/kg	15 UJ	37 U	5700 UJ	140 UJ

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	Sample Date:	**05/29/2018**	**05/29/2018**	**05/29/2018**	**05/29/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**				
Semivolatile Organic Compounds					
Pentachlorophenol	µg/kg	67 U	160 U	26000 U	610 U
Phenanthrene	µg/kg	59	1900	480000	360
Phenol	µg/kg	9.2 U	23 U	3500 U	85 U
Pyrene	µg/kg	20	2400	450000	890
PCBs					
Aroclor-1016 (PCB-1016)	µg/kg	27 U	25 U	24 U	23 U
Aroclor-1221 (PCB-1221)	µg/kg	29 U	28 U	26 U	25 U
Aroclor-1232 (PCB-1232)	µg/kg	28 U	26 U	25 U	24 U
Aroclor-1242 (PCB-1242)	µg/kg	23 U	22 U	20 U	20 U
Aroclor-1248 (PCB-1248)	µg/kg	29 U	28 U	26 U	25 U
Aroclor-1254 (PCB-1254)	µg/kg	28 U	27 J	25 U	24 U
Aroclor-1260 (PCB-1260)	µg/kg	27 U	25 U	24 U	23 U
Pesticides					
4,4'-DDD	µg/kg	1.9 J	17 U	32 U	1.5 U
4,4'-DDE	µg/kg	8.3	17 U	33 U	1.6 U
4,4'-DDT	µg/kg	4.6 J	13 U	24 U	1.4 J
Aldrin	µg/kg	0.94 U	8.9 U	17 U	0.79 U
alpha-BHC	µg/kg	1.1 U	10 U	20 U	0.94 U
alpha-Chlordane	µg/kg	2.5 J	17 U	32 U	1.5 U
beta-BHC	µg/kg	2.1 U	20 U	37 U	1.8 U
delta-BHC	µg/kg	2.1 U	19 U	36 U	87 U
Dieldrin	µg/kg	1.3 U	13 U	24 U	1.1 U
Endosulfan I	µg/kg	1.5 U	14 U	26 U	1.2 U
Endosulfan II	µg/kg	1.8 U	17 U	32 U	1.5 U
Endosulfan sulfate	µg/kg	1.6 U	15 U	28 U	66 U
Endrin	µg/kg	2.3 U	22 U	41 U	2.0 U
Endrin aldehyde	µg/kg	1.6 U	15 U	28 U	67 U
Endrin ketone	µg/kg	1.1 U	21 J	19 U	0.92 U
gamma-BHC (lindane)	µg/kg	2.2 U	21 U	39 U	1.8 U
gamma-Chlordane	µg/kg	2.7 J	14 U	27 U	1.3 U
Heptachlor	µg/kg	1.9 U	18 U	34 U	1.6 U
Heptachlor epoxide	µg/kg	1.8 U	17 U	31 U	1.5 U
Methoxychlor	µg/kg	8.0 UJ	75 UJ	140 U	6.8 UJ
Toxaphene	µg/kg	30 U	290 U	540 U	26 U

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	Sample Date:	**05/29/2018**	**05/29/2018**	**05/29/2018**	**05/29/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**				
Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs)					
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	--	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	--	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--	--
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--	--
Total heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--	--
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--	--
Total hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--	--
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--	--
Total pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--	--
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--	--
Total tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**SS-144**	**SS-145**	**SS-146**	**SS-147**
	Sample Name:	**S-38443-052918-JC-087**	**S-38443-052918-JC-089**	**S-38443-052918-JC-098**	**S-38443-052918-JC-091**
	Sample Date:	**05/29/2018**	**05/29/2018**	**05/29/2018**	**05/29/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**				
Metals					
Aluminum	mg/kg	8300	6000	5900	9800
Antimony	mg/kg	0.16 J	0.36 J	1.1 J	0.13 J
Arsenic	mg/kg	10	8.9	9.4	1.8
Barium	mg/kg	50	96	74	110
Beryllium	mg/kg	0.58	0.59	0.51	2.9
Cadmium	mg/kg	0.16 J	0.53	0.67	0.18 J
Calcium	mg/kg	53000	64000	79000	170000
Chromium	mg/kg	11	11	16	280
Chromium III (trivalent)	mg/kg	11	10	16	280
Chromium VI (hexavalent)	mg/kg	0.28 U	0.66 J	0.27 U	0.66 J
Cobalt	mg/kg	6.9	5.3	5.1	1.2
Copper	mg/kg	17	35	50	17
Iron	mg/kg	18000	15000	22000	54000
Lead	mg/kg	13	130	1000	14
Lead - coarse fraction	mg/kg	--	--	100 J	--
Lead - fine fraction	mg/kg	--	--	210	--
Lead - total (calculated by fine/coarse fraction)	mg/kg	--	--	110	--
Magnesium	mg/kg	26000	23000	37000	65000
Manganese	mg/kg	410	410	390	6000
Mercury	mg/kg	0.029 J	0.45	0.56	0.019 U
Nickel	mg/kg	18	12	14	8.9
Potassium	mg/kg	940	790	640	650
Selenium	mg/kg	0.52 J	0.81 J	0.45 J	1.1
Silver	mg/kg	0.032 J	0.17 J	0.35	0.13 J
Sodium	mg/kg	79 J	95 J	120 J	460 J
Thallium	mg/kg	0.30	0.21	0.25	0.046 U
Vanadium	mg/kg	20	17	18	170
Zinc	mg/kg	53	280	260	62

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**SS-144**	**SS-145**	**SS-146**	**SS-147**
	Sample Name:	**S-38443-052918-JC-087**	**S-38443-052918-JC-089**	**S-38443-052918-JC-098**	**S-38443-052918-JC-091**
	Sample Date:	**05/29/2018**	**05/29/2018**	**05/29/2018**	**05/29/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**				
General Chemistry					
Cyanide (total)	mg/kg	0.21 U	0.22 U	0.22 U	0.18 U

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
NJ - Tentatively identified compound, estimated concentration
PCBs - Polychlorinated Biphenyls
R - Rejected
-- - Not applicable

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**SS-149**	**SS-150**	**SS-151**
	Sample Name:	**S-38443-052918-JC-095**	**S-38443-052918-JC-093**	**S-38443-051618-JC-073**
	Sample Date:	**05/29/2018**	**05/29/2018**	**05/16/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/kg	0.72 U	0.78 U	0.19 U
1,1,2,2-Tetrachloroethane	µg/kg	1.2 U	1.4 U	0.22 U
1,1,2-Trichloroethane	µg/kg	0.99 U	1.1 U	0.32 U
1,1-Dichloroethane	µg/kg	0.60 U	0.66 U	0.27 U
1,1-Dichloroethene	µg/kg	0.79 U	0.86 U	0.45 U
1,2,4-Trichlorobenzene	µg/kg	0.50 U	0.54 U	0.20 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	3.1 U	3.4 U	0.56 U
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	0.67 U	0.73 U	0.29 U
1,2-Dichlorobenzene	µg/kg	0.97 U	1.1 U	0.18 U
1,2-Dichloroethane	µg/kg	0.67 U	0.73 U	0.24 U
1,2-Dichloropropane	µg/kg	0.74 U	0.81 U	0.26 U
1,3-Dichlorobenzene	µg/kg	0.71 U	0.77 U	0.24 U
1,4-Dichlorobenzene	µg/kg	0.77 U	0.84 U	0.29 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	7.2 J	13 J	5.7 J
2-Hexanone	µg/kg	3.6 U	3.9 U	0.48 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	3.2 U	3.5 U	0.74 U
Acetone	µg/kg	42	63	22
Benzene	µg/kg	0.61 U	0.66 U	0.27 U
Bromodichloromethane	µg/kg	0.59 U	0.64 U	0.27 U
Bromoform	µg/kg	2.1 U	2.3 U	0.33 U
Bromomethane (Methyl bromide)	µg/kg	0.86 U	0.94 U	0.49 U
Carbon disulfide	µg/kg	1.0 U	1.1 U	0.17 U
Carbon tetrachloride	µg/kg	2.8 U	3.1 U	0.21 U
Chlorobenzene	µg/kg	0.80 U	0.87 U	0.27 U
Chloroethane	µg/kg	1.1 U	1.2 U	0.32 U
Chloroform (Trichloromethane)	µg/kg	0.69 U	0.75 U	0.19 U
Chloromethane (Methyl chloride)	µg/kg	0.91 U	0.99 U	0.32 U
cis-1,2-Dichloroethene	µg/kg	0.57 U	0.62 U	0.23 U
cis-1,3-Dichloropropene	µg/kg	1.3 U	1.4 U	0.22 U
Cyclohexane	µg/kg	1.2 U	1.3 U	0.17 U
Dibromochloromethane	µg/kg	2.4 U	2.6 U	0.25 U
Dichlorodifluoromethane (CFC-12)	µg/kg	0.82 U	0.89 U	0.29 U
Ethylbenzene	µg/kg	0.91 U	0.99 U	0.22 U
Isopropyl benzene	µg/kg	0.73 U	0.79 U	0.17 U
Methyl acetate	µg/kg	3.0 U	3.2 U	0.97 U
Methyl cyclohexane	µg/kg	1.1 U	1.2 U	0.19 U
Methyl tert butyl ether (MTBE)	µg/kg	0.72 U	0.78 U	0.22 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**SS-149**	**SS-150**	**SS-151**
	Sample Name:	**S-38443-052918-JC-095**	**S-38443-052918-JC-093**	**S-38443-051618-JC-073**
	Sample Date:	**05/29/2018**	**05/29/2018**	**05/16/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
Methylene chloride	µg/kg	10 U	11 U	0.20 U
Styrene	µg/kg	1.0 U	1.1 U	0.22 U
Tetrachloroethene	µg/kg	0.64 U	0.69 U	0.31 U
Toluene	µg/kg	0.67 U	0.73 U	0.28 U
trans-1,2-Dichloroethene	µg/kg	0.41 U	0.44 U	0.32 U
trans-1,3-Dichloropropene	µg/kg	0.90 U	0.98 U	0.17 U
Trichloroethene	µg/kg	0.55 U	0.60 U	0.34 U
Trichlorofluoromethane (CFC-11)	µg/kg	0.94 U	1.0 U	0.20 U
Trifluorotrichloroethane (CFC-113)	µg/kg	1.1 U	1.2 U	0.41 U
Vinyl chloride	µg/kg	0.73 U	0.79 U	0.23 U
Xylenes (total)	µg/kg	1.4 U	1.5 U	0.33 U
Semivolatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	43 U	11 U	11 U
2,4,5-Trichlorophenol	µg/kg	300 U	78 U	79 U
2,4,6-Trichlorophenol	µg/kg	270 U	72 U	73 U
2,4-Dichlorophenol	µg/kg	190 U	49 U	50 U
2,4-Dimethylphenol	µg/kg	170 U	45 U	46 U
2,4-Dinitrophenol	µg/kg	R	160 U	160 U
2,4-Dinitrotoluene	µg/kg	270 U	70 U	71 U
2,6-Dinitrotoluene	µg/kg	240 U	63 U	64 U
2-Chloronaphthalene	µg/kg	60 U	16 U	16 U
2-Chlorophenol	µg/kg	43 U	11 U	11 U
2-Methylnaphthalene	µg/kg	160 J	0.56 U	8.1
2-Methylphenol	µg/kg	130 U	35 U	35 U
2-Nitroaniline	µg/kg	170 UJ	45 UJ	46 U
2-Nitrophenol	µg/kg	56 U	15 U	15 U
3&4-Methylphenol	µg/kg	120 U	33 U	33 U
3,3'-Dichlorobenzidine	µg/kg	180 U	48 U	49 U
3-Nitroaniline	µg/kg	210 U	55 U	56 U
4,6-Dinitro-2-methylphenol	µg/kg	R	90 U	91 U
4-Bromophenyl phenyl ether	µg/kg	60 U	16 U	16 U
4-Chloro-3-methylphenol	µg/kg	190 U	51 U	51 U
4-Chloroaniline	µg/kg	130 U	34 U	34 U
4-Chlorophenyl phenyl ether	µg/kg	60 U	16 U	16 U
4-Nitroaniline	µg/kg	260 U	67 U	68 U
4-Nitrophenol	µg/kg	400 U	110 U	110 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**SS-149**	**SS-150**	**SS-151**
	Sample Name:	**S-38443-052918-JC-095**	**S-38443-052918-JC-093**	**S-38443-051618-JC-073**
	Sample Date:	**05/29/2018**	**05/29/2018**	**05/16/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Semivolatile Organic Compounds				
Acenaphthene	µg/kg	97	0.85 U	5.0 J
Acenaphthylene	µg/kg	79	0.39 U	6.1 J
Acetophenone	µg/kg	47 U	12 U	13 U
Anthracene	µg/kg	260	11	16
Atrazine	µg/kg	150 U	40 U	41 U
Benzaldehyde	µg/kg	98 UJ	26 UJ	26 U
Benzo(a)anthracene	µg/kg	1400	63	49
Benzo(a)pyrene	µg/kg	1500	59	43
Benzo(b)fluoranthene	µg/kg	2000	70	67
Benzo(g,h,i)perylene	µg/kg	850	42	41
Benzo(k)fluoranthene	µg/kg	790	30	27
Biphenyl (1,1-Biphenyl)	µg/kg	73 U	19 U	19 U
bis(2-Chloroethoxy)methane	µg/kg	51 U	13 U	14 U
bis(2-Chloroethyl)ether	µg/kg	51 U	13 U	14 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	220 U	57 U	58 U
Butyl benzylphthalate (BBP)	µg/kg	94 U	25 U	25 U
Caprolactam	µg/kg	320 U	84 U	86 U
Carbazole	µg/kg	160 J	21 U	22 U
Chrysene	µg/kg	1400	57	61
Di-n-butylphthalate (DBP)	µg/kg	94 U	25 U	25 J
Di-n-octyl phthalate (DnOP)	µg/kg	120 U	31 U	32 U
Dibenz(a,h)anthracene	µg/kg	230	0.74 U	9.3
Dibenzofuran	µg/kg	72 J	15 U	15 U
Diethyl phthalate	µg/kg	130 U	35 U	35 U
Dimethyl phthalate	µg/kg	60 U	16 U	16 U
Fluoranthene	µg/kg	2700	100	110
Fluorene	µg/kg	74	0.60 U	7.1 J
Hexachlorobenzene	µg/kg	9.0 U	2.4 U	2.4 U
Hexachlorobutadiene	µg/kg	51 U	13 U	14 U
Hexachlorocyclopentadiene	µg/kg	R	70 U	71 U
Hexachloroethane	µg/kg	38 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	µg/kg	770	30	31
Isophorone	µg/kg	51 UJ	13 UJ	14 U
N-Nitrosodi-n-propylamine	µg/kg	47 UJ	12 UJ	13 U
N-Nitrosodiphenylamine	µg/kg	51 U	13 U	14 U
Naphthalene	µg/kg	110 J	0.92 U	8.0
Nitrobenzene	µg/kg	56 UJ	15 UJ	15 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**SS-149**	**SS-150**	**SS-151**
	Sample Name:	**S-38443-052918-JC-095**	**S-38443-052918-JC-093**	**S-38443-051618-JC-073**
	Sample Date:	**05/29/2018**	**05/29/2018**	**05/16/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Semivolatile Organic Compounds				
Pentachlorophenol	µg/kg	250 U	65 U	66 U
Phenanthrene	µg/kg	940	48	80
Phenol	µg/kg	34 U	9.0 U	9.1 U
Pyrene	µg/kg	2300	93	90
PCBs				
Aroclor-1016 (PCB-1016)	µg/kg	24 U	26 U	26 U
Aroclor-1221 (PCB-1221)	µg/kg	27 U	28 U	28 U
Aroclor-1232 (PCB-1232)	µg/kg	25 U	27 U	27 U
Aroclor-1242 (PCB-1242)	µg/kg	21 U	22 U	22 U
Aroclor-1248 (PCB-1248)	µg/kg	27 U	28 U	28 U
Aroclor-1254 (PCB-1254)	µg/kg	25 U	27 U	27 U
Aroclor-1260 (PCB-1260)	µg/kg	24 U	26 U	26 U
Pesticides				
4,4'-DDD	µg/kg	1.6 U	1.8 U	1.6 U
4,4'-DDE	µg/kg	1.7 U	1.8 U	1.7 U
4,4'-DDT	µg/kg	1.3 U	1.3 U	1.2 U
Aldrin	µg/kg	0.85 U	0.91 U	0.85 U
alpha-BHC	µg/kg	1.0 U	1.1 U	1.0 U
alpha-Chlordane	µg/kg	1.7 U	1.8 U	1.7 U
beta-BHC	µg/kg	1.9 U	2.0 U	1.9 U
delta-BHC	µg/kg	1.9 U	2.0 U	93 U
Dieldrin	µg/kg	1.2 U	1.3 U	1.2 U
Endosulfan I	µg/kg	1.3 U	1.4 U	1.3 U
Endosulfan II	µg/kg	1.6 U	1.8 U	1.6 U
Endosulfan sulfate	µg/kg	1.4 U	1.5 U	71 U
Endrin	µg/kg	2.1 U	2.2 U	2.1 U
Endrin aldehyde	µg/kg	1.5 U	1.5 U	72 U
Endrin ketone	µg/kg	0.99 U	1.1 U	0.98 U
gamma-BHC (lindane)	µg/kg	2.0 U	2.1 U	2.0 U
gamma-Chlordane	µg/kg	1.4 U	1.5 U	1.4 U
Heptachlor	µg/kg	1.8 U	1.9 U	1.7 U
Heptachlor epoxide	µg/kg	1.6 U	1.7 U	1.6 U
Methoxychlor	µg/kg	7.3 UJ	7.8 UJ	7.2 U
Toxaphene	µg/kg	28 U	30 U	28 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**SS-149**	**SS-150**	**SS-151**
	Sample Name:	**S-38443-052918-JC-095**	**S-38443-052918-JC-093**	**S-38443-051618-JC-073**
	Sample Date:	**05/29/2018**	**05/29/2018**	**05/16/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs)				
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
Total heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
Total hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
Total pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
Total tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**SS-149**	**SS-150**	**SS-151**
	Sample Name:	**S-38443-052918-JC-095**	**S-38443-052918-JC-093**	**S-38443-051618-JC-073**
	Sample Date:	**05/29/2018**	**05/29/2018**	**05/16/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Metals				
Aluminum	mg/kg	5100	6200	7200
Antimony	mg/kg	0.15 J	0.13 UJ	0.59 J
Arsenic	mg/kg	6.0	6.1	7.0
Barium	mg/kg	66	95	59 J
Beryllium	mg/kg	0.38	0.36	0.61
Cadmium	mg/kg	0.23	0.26	0.25
Calcium	mg/kg	88000	76000	37000
Chromium	mg/kg	22	9.5	10
Chromium III (trivalent)	mg/kg	22	9.5	10
Chromium VI (hexavalent)	mg/kg	0.85 J	1.4 U	0.27 U
Cobalt	mg/kg	5.3	4.6	7.9
Copper	mg/kg	14	11	14
Iron	mg/kg	14000	14000	13000
Lead	mg/kg	26	49	23 J
Lead - coarse fraction	mg/kg	--	--	--
Lead - fine fraction	mg/kg	--	--	--
Lead - total (calculated by fine/coarse fraction)	mg/kg	--	--	--
Magnesium	mg/kg	31000	30000	16000
Manganese	mg/kg	580	390	690
Mercury	mg/kg	0.040 J	0.068 J	0.043 J
Nickel	mg/kg	13	11	11
Potassium	mg/kg	970	560	600
Selenium	mg/kg	0.62 J	0.39 J	0.57 J
Silver	mg/kg	0.074 J	0.041 J	0.039 J
Sodium	mg/kg	110 J	110 J	78 J
Thallium	mg/kg	0.19	0.12 J	0.20 J
Vanadium	mg/kg	22	16	21
Zinc	mg/kg	48	58	60

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**SS-149**	**SS-150**	**SS-151**
	Sample Name:	**S-38443-052918-JC-095**	**S-38443-052918-JC-093**	**S-38443-051618-JC-073**
	Sample Date:	**05/29/2018**	**05/29/2018**	**05/16/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
General Chemistry				
Cyanide (total)	mg/kg	0.21 U	0.19 U	0.23 U

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
NJ - Tentatively identified compound, estimated concentration
PCBs - Polychlorinated Biphenyls
R - Rejected
-- - Not applicable

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**SS-153**	**TT-24**	**TT-24**
	Sample Name:	**S-38443-051718-JC-075**	**SO-38443-032018-BW-001**	**SO-38443-032018-BW-002**
	Sample Date:	**05/17/2018**	**03/20/2018**	**03/20/2018**
	Depth:	**0-2 ft BGS**	**2-4 ft bgs**	**13-15 ft bgs**
Parameters	**Unit**			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/kg	0.18 U	1200 U	0.25 U
1,1,2,2-Tetrachloroethane	µg/kg	0.21 U	1000 U	0.28 U
1,1,2-Trichloroethane	µg/kg	0.31 U	990 U	0.42 U
1,1-Dichloroethane	µg/kg	0.26 U	1300 U	0.36 U
1,1-Dichloroethene	µg/kg	0.43 U	1600 U	0.59 U
1,2,4-Trichlorobenzene	µg/kg	0.19 UJ	1100 U	0.26 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	0.54 UJ	2100 U	0.74 U
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	0.28 U	990 U	0.38 U
1,2-Dichlorobenzene	µg/kg	0.18 U	780 U	0.24 U
1,2-Dichloroethane	µg/kg	0.23 U	1300 U	0.32 U
1,2-Dichloropropane	µg/kg	0.25 U	1300 U	0.34 U
1,3-Dichlorobenzene	µg/kg	0.23 U	1600 U	0.32 U
1,4-Dichlorobenzene	µg/kg	0.28 U	1200 U	0.38 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	9.9 J	2200 U	4.3 J
2-Hexanone	µg/kg	0.46 U	3700 U	0.63 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	0.71 U	1700 U	0.97 U
Acetone	µg/kg	55	4200 U	18 U
Benzene	µg/kg	0.26 U	1000 U	0.35 U
Bromodichloromethane	µg/kg	0.26 U	780 U	0.36 U
Bromoform	µg/kg	0.32 U	990 U	0.43 U
Bromomethane (Methyl bromide)	µg/kg	0.47 U	1200 U	0.64 U
Carbon disulfide	µg/kg	0.17 U	780 U	0.91 J
Carbon tetrachloride	µg/kg	0.20 U	1200 U	0.27 U
Chlorobenzene	µg/kg	0.26 U	1300 U	0.36 U
Chloroethane	µg/kg	0.30 U	1200 U	0.41 U
Chloroform (Trichloromethane)	µg/kg	0.18 U	1000 U	0.25 U
Chloromethane (Methyl chloride)	µg/kg	0.30 U	780 U	0.41 U
cis-1,2-Dichloroethene	µg/kg	0.47 J	1500 U	0.39 J
cis-1,3-Dichloropropene	µg/kg	0.21 U	990 U	0.28 U
Cyclohexane	µg/kg	0.17 U	1300 U	0.23 U
Dibromochloromethane	µg/kg	0.24 U	1500 U	0.33 U
Dichlorodifluoromethane (CFC-12)	µg/kg	0.28 U	950 U	0.38 U
Ethylbenzene	µg/kg	0.22 U	210000 J	6.8
Isopropyl benzene	µg/kg	0.16 U	15000 J	0.41 J
Methyl acetate	µg/kg	0.93 U	3200 U	1.3 U
Methyl cyclohexane	µg/kg	0.18 U	14000 J	0.44 J
Methyl tert butyl ether (MTBE)	µg/kg	0.22 U	1100 U	0.29 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**SS-153**	**TT-24**	**TT-24**
	Sample Name:	**S-38443-051718-JC-075**	**SO-38443-032018-BW-001**	**SO-38443-032018-BW-002**
	Sample Date:	**05/17/2018**	**03/20/2018**	**03/20/2018**
	Depth:	**0-2 ft BGS**	**2-4 ft bgs**	**13-15 ft bgs**
Parameters	**Unit**			
Volatile Organic Compounds				
Methylene chloride	µg/kg	0.19 U	6100 U	30
Styrene	µg/kg	0.22 U	430 U	0.29 U
Tetrachloroethene	µg/kg	0.30 U	910 U	0.56 J
Toluene	µg/kg	0.27 U	6500 J	1.1 J
trans-1,2-Dichloroethene	µg/kg	0.30 U	1500 U	0.41 U
trans-1,3-Dichloropropene	µg/kg	0.17 U	650 U	0.23 U
Trichloroethene	µg/kg	0.33 U	1600 U	0.51 J
Trichlorofluoromethane (CFC-11)	µg/kg	0.19 U	1500 U	0.26 U
Trifluorotrichloroethane (CFC-113)	µg/kg	0.39 U	990 U	0.53 U
Vinyl chloride	µg/kg	0.22 U	730 U	0.30 U
Xylenes (total)	µg/kg	0.32 U	590000 J	23
Semivolatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	43 U	590 U	39 U
2,4,5-Trichlorophenol	µg/kg	300 U	1600 U	100 U
2,4,6-Trichlorophenol	µg/kg	270 U	550 U	37 U
2,4-Dichlorophenol	µg/kg	190 U	1200 U	83 U
2,4-Dimethylphenol	µg/kg	170 U	1200 U	83 U
2,4-Dinitrophenol	µg/kg	610 U	1300 U	87 U
2,4-Dinitrotoluene	µg/kg	270 U	1100 U	70 U
2,6-Dinitrotoluene	µg/kg	240 U	1300 U	87 U
2-Chloronaphthalene	µg/kg	60 U	28 U	1.9 U
2-Chlorophenol	µg/kg	43 U	510 U	34 U
2-Methylnaphthalene	µg/kg	22 J	4800	17 J
2-Methylphenol	µg/kg	130 U	690 U	45 U
2-Nitroaniline	µg/kg	170 U	570 U	38 U
2-Nitrophenol	µg/kg	56 U	520 U	34 U
3&4-Methylphenol	µg/kg	120 U	1200 U	83 U
3,3'-Dichlorobenzidine	µg/kg	180 U	1100 U	74 U
3-Nitroaniline	µg/kg	210 U	1000 U	66 U
4,6-Dinitro-2-methylphenol	µg/kg	340 U	570 U	38 U
4-Bromophenyl phenyl ether	µg/kg	60 U	810 U	54 U
4-Chloro-3-methylphenol	µg/kg	190 U	1300 U	87 U
4-Chloroaniline	µg/kg	130 U	1100 U	70 U
4-Chlorophenyl phenyl ether	µg/kg	60 U	810 U	54 U
4-Nitroaniline	µg/kg	260 U	1600 U	110 U
4-Nitrophenol	µg/kg	400 U	1100 U	70 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**SS-153**	**TT-24**	**TT-24**
	Sample Name:	**S-38443-051718-JC-075**	**SO-38443-032018-BW-001**	**SO-38443-032018-BW-002**
	Sample Date:	**05/17/2018**	**03/20/2018**	**03/20/2018**
	Depth:	**0-2 ft BGS**	**2-4 ft bgs**	**13-15 ft bgs**
Parameters	**Unit**			
Semivolatile Organic Compounds				
Acenaphthene	µg/kg	57	470	33
Acenaphthylene	µg/kg	18 J	22 U	1.4 U
Acetophenone	µg/kg	47 U	570 U	38 U
Anthracene	µg/kg	380	49 U	66
Atrazine	µg/kg	150 U	570 U	38 U
Benzaldehyde	µg/kg	98 UJ	750 U	50 U
Benzo(a)anthracene	µg/kg	800	39 U	220
Benzo(a)pyrene	µg/kg	730	40 U	270
Benzo(b)fluoranthene	µg/kg	870	37 U	470
Benzo(g,h,i)perylene	µg/kg	450	22 U	210
Benzo(k)fluoranthene	µg/kg	340	42 U	160
Biphenyl (1,1-Biphenyl)	µg/kg	73 U	740 J	15 J
bis(2-Chloroethoxy)methane	µg/kg	51 U	1400 U	91 U
bis(2-Chloroethyl)ether	µg/kg	51 U	120 U	8.3 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	220 U	4000 U	1920 U
Butyl benzylphthalate (BBP)	µg/kg	94 U	620 U	41 U
Caprolactam	µg/kg	320 U	2300 U	150 U
Carbazole	µg/kg	81 U	1700 U	110 U
Chrysene	µg/kg	830	69 U	260
Di-n-butylphthalate (DBP)	µg/kg	94 U	6000	62 U
Di-n-octyl phthalate (DnOP)	µg/kg	120 U	490 U	33 U
Dibenz(a,h)anthracene	µg/kg	100	41 U	53
Dibenzofuran	µg/kg	56 U	41 U	2.7 U
Diethyl phthalate	µg/kg	130 U	1000 U	66 U
Dimethyl phthalate	µg/kg	60 U	1100 U	70 U
Fluoranthene	µg/kg	1900	1200	560
Fluorene	µg/kg	62	290 J	41
Hexachlorobenzene	µg/kg	9.0 U	130 U	8.7 U
Hexachlorobutadiene	µg/kg	51 U	350 U	23 U
Hexachlorocyclopentadiene	µg/kg	270 U	500 U	33 U
Hexachloroethane	µg/kg	39 U	560 U	37 U
Indeno(1,2,3-cd)pyrene	µg/kg	370	22 U	190
Isophorone	µg/kg	51 U	810 U	54 U
N-Nitrosodi-n-propylamine	µg/kg	47 U	390 U	26 U
N-Nitrosodiphenylamine	µg/kg	51 U	1300 U	87 U
Naphthalene	µg/kg	21 J	9800	14 J
Nitrobenzene	µg/kg	56 U	140 U	9.1 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**SS-153**	**TT-24**	**TT-24**
	Sample Name:	**S-38443-051718-JC-075**	**SO-38443-032018-BW-001**	**SO-38443-032018-BW-002**
	Sample Date:	**05/17/2018**	**03/20/2018**	**03/20/2018**
	Depth:	**0-2 ft BGS**	**2-4 ft bgs**	**13-15 ft bgs**
Parameters	**Unit**			
Semivolatile Organic Compounds				
Pentachlorophenol	µg/kg	250 UJ	570 U	38 U
Phenanthrene	µg/kg	490	1400	130
Phenol	µg/kg	34 U	450 U	30 U
Pyrene	µg/kg	1700	1000	590
PCBs				
Aroclor-1016 (PCB-1016)	µg/kg	23 U	130 U	22 U
Aroclor-1221 (PCB-1221)	µg/kg	25 U	150 U	24 U
Aroclor-1232 (PCB-1232)	µg/kg	24 U	140 U	23 U
Aroclor-1242 (PCB-1242)	µg/kg	20 U	120 U	19 U
Aroclor-1248 (PCB-1248)	µg/kg	25 U	150 U	160
Aroclor-1254 (PCB-1254)	µg/kg	24 U	2600	23 U
Aroclor-1260 (PCB-1260)	µg/kg	23 U	130 U	63
Pesticides				
4,4'-DDD	µg/kg	1.6 U	81 U	33 U
4,4'-DDE	µg/kg	1.7 U	29 U	12 U
4,4'-DDT	µg/kg	1.3 UJ	34 U	14 U
Aldrin	µg/kg	0.85 U	59 U	24 U
alpha-BHC	µg/kg	1.0 U	39 U	16 U
alpha-Chlordane	µg/kg	1.7 U	93 U	38 U
beta-BHC	µg/kg	1.9 U	95 U	39 U
delta-BHC	µg/kg	1.9 U	32 U	13 U
Dieldrin	µg/kg	1.2 U	22 U	8.9 U
Endosulfan I	µg/kg	1.3 U	32 U	13 U
Endosulfan II	µg/kg	1.6 U	44 U	18 U
Endosulfan sulfate	µg/kg	1.4 U	29 U	12 U
Endrin	µg/kg	2.1 U	34 U	14 U
Endrin aldehyde	µg/kg	1.5 U	44 U	18 U
Endrin ketone	µg/kg	0.99 U	27 U	11 U
gamma-BHC (lindane)	µg/kg	2.0 U	71 U	29 U
gamma-Chlordane	µg/kg	1.4 U	37 U	15 U
Heptachlor	µg/kg	1.7 U	19 U	7.8 U
Heptachlor epoxide	µg/kg	1.6 U	59 U	24 U
Methoxychlor	µg/kg	7.3 UJ	29 UJ	12 UJ
Toxaphene	µg/kg	28 U	900 U	370 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**SS-153**	**TT-24**	**TT-24**
	Sample Name:	**S-38443-051718-JC-075**	**SO-38443-032018-BW-001**	**SO-38443-032018-BW-002**
	Sample Date:	**05/17/2018**	**03/20/2018**	**03/20/2018**
	Depth:	**0-2 ft BGS**	**2-4 ft bgs**	**13-15 ft bgs**
Parameters	**Unit**			
Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs)				
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	--	6300	510
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	--	730	32
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	1200	68
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	--	870	21
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	--	68	1.3 J
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	27 J	1.9 J
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	340	6.0
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	100	7.0
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	110 J	3.8 J
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	100	5.5
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	--	1.0 U	0.34 U
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	30 J	2.6 J
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	66	1.6 J
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	140	2.8
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	110	3.4
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	7.8 J	0.50 J
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	--	53	4.3
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	2300 J	140 J
Total heptachlorodibenzofuran (HpCDF)	pg/g	--	1700 J	48 J
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	1100 J	74 J
Total hexachlorodibenzofuran (HxCDF)	pg/g	--	1400 J	75 J
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	1600 J	100 J
Total pentachlorodibenzofuran (PeCDF)	pg/g	--	1500 J	140 J
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	400 J	12 J
Total tetrachlorodibenzofuran (TCDF)	pg/g	--	2000 J	180 J

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**SS-153**	**TT-24**	**TT-24**
	Sample Name:	**S-38443-051718-JC-075**	**SO-38443-032018-BW-001**	**SO-38443-032018-BW-002**
	Sample Date:	**05/17/2018**	**03/20/2018**	**03/20/2018**
	Depth:	**0-2 ft BGS**	**2-4 ft bgs**	**13-15 ft bgs**
Parameters	**Unit**			
Metals				
Aluminum	mg/kg	3500 J	6600	2600
Antimony	mg/kg	0.15 J	0.61 J	0.50 J
Arsenic	mg/kg	5.7	13	7.8
Barium	mg/kg	32	320	54
Beryllium	mg/kg	0.27	3.2	0.23
Cadmium	mg/kg	0.20	0.86	0.53
Calcium	mg/kg	110000	2600 J	140000 J
Chromium	mg/kg	7.5	23	9.0
Chromium III (trivalent)	mg/kg	7.5	--	--
Chromium VI (hexavalent)	mg/kg	0.26 U	--	--
Cobalt	mg/kg	3.4	9.2	3.2
Copper	mg/kg	11	210	29
Iron	mg/kg	10000	5700	7800
Lead	mg/kg	9.1	69	48
Lead - coarse fraction	mg/kg	--	--	--
Lead - fine fraction	mg/kg	--	--	--
Lead - total (calculated by fine/coarse fraction)	mg/kg	--	--	--
Magnesium	mg/kg	43000	800	45000
Manganese	mg/kg	370 J	37	240
Mercury	mg/kg	0.022 J	0.70	0.035 J
Nickel	mg/kg	9.1	19	10
Potassium	mg/kg	500	970 J	470 J
Selenium	mg/kg	0.24 J	4.5	0.54 J
Silver	mg/kg	0.021 J	0.28	0.14 J
Sodium	mg/kg	120 J	290	160 J
Thallium	mg/kg	0.11 J	0.50	0.18 J
Vanadium	mg/kg	12	33	12
Zinc	mg/kg	31	240	57

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

	Location ID:	**SS-153**	**TT-24**	**TT-24**
	Sample Name:	**S-38443-051718-JC-075**	**SO-38443-032018-BW-001**	**SO-38443-032018-BW-002**
	Sample Date:	**05/17/2018**	**03/20/2018**	**03/20/2018**
	Depth:	**0-2 ft BGS**	**2-4 ft bgs**	**13-15 ft bgs**
Parameters	**Unit**			
General Chemistry				
Cyanide (total)	mg/kg	0.21 U	11	0.15 U

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
NJ - Tentatively identified compound, estimated concentration
PCBs - Polychlorinated Biphenyls
R - Rejected
-- - Not applicable

Table 3

Analytical Methods
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

Parameter	Method	Matrix	Holding Time	
			Collection to Extraction (Days)	Collection or Extraction to Analysis (Days)
Volatile Organic Compounds (VOCs)	SW-846 8260B	Soil	48 hours	14
Semi-Volatile Organic Compounds (SVOCs)	SW-846 8270C	Soil	14	40
Organochlorine Pesticides	SW-846 8081A	Soil	14	40
Polychlorinated Biphenyls (PCBs)	SW-846 8082A	Soil	up to one year	40
Dioxins & Furans	SW-846 8290A	Soil	none	none
Metals	SW-846 6020	Soil	-	180
Fractionated Lead	SW-846 6010	Soil	-	180
Mercury	SW-846 7471A	Soil	-	28
Hexavalent and Trivalent Chromium	SW-846 7198	Soil	30	24 hours
Cyanide	SW-846 9012B	Soil	-	14

Notes:

SW-846 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, 1986, with subsequent revisions
\- - Not applicable

Table 4

Qualified Sample Results Due to Outlying Continuing Calibration Results
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

Parameter	Analyte	Calibration Date (mm/dd/yyyy)	%D	Associated Sample ID	Qualified Result	Units
VOCs	Bromoform	12/30/2017	28	S-38443-122017-JC-018	0.73 UJ	µg/Kg
				S-38443-122117-JC-022	29 UJ	µg/Kg
				S-38443-122117-JC-023	31 UJ	µg/Kg
VOCs	trans-1,3-Dichloropropene	12/30/2017	26	S-38443-122017-JC-018	0.38 UJ	µg/Kg
				S-38443-122117-JC-022	19 UJ	µg/Kg
				S-38443-122117-JC-023	20 UJ	µg/Kg
VOCs	1,1,1-Trichloroethane	01/11/2018	26	S-38443-010918-JC-036	85 UJ	µg/Kg
VOCs	Bromoform	01/11/2018	30	S-38443-010918-JC-035	0.58 UJ	µg/Kg
VOCs	trans-1,3-Dichloropropene	01/11/2018	27	S-38443-010918-JC-035	0.31 UJ	µg/Kg
VOCs	1,1,1-Trichloroethane	01/23/2018	26	S-38443-011818-JC-050	0.20 UJ	µg/Kg
				S-38443-011818-JC-051	0.24 UJ	µg/Kg
				S-38443-011818-JC-052	0.27 UJ	µg/Kg
				S-38443-011818-JC-053	0.21 UJ	µg/Kg
				S-38443-011918-JC-054	0.24 UJ	µg/Kg
				S-38443-011918-JC-055	0.21 UJ	µg/Kg
VOCs	1,2,4-Trichlorobenzene	05/21/2018	26	S-38443-051718-JC-075	0.19 UJ	µg/Kg
				S-38443-051718-JC-083	0.21 UJ	µg/Kg
				S-38443-051718-JC-077	0.22 UJ	µg/Kg
				S-38443-051718-JC-082	0.60 UJ	µg/Kg
VOCs	1,2-Dibromo-3-chloropropane (DBCP)	05/21/2018	41	S-38443-051718-JC-075	0.54 UJ	µg/Kg
				S-38443-051718-JC-083	0.60 UJ	µg/Kg
				S-38443-051718-JC-077	0.61 UJ	µg/Kg
				S-38443-051718-JC-082	1.7 UJ	µg/Kg
VOCs	Dichlorodifluoromethane (CFC-12)	01/25/2018	41	S-38443-012318-JC-061	0.57 UJ	µg/Kg
				S-38443-012318-JC-062	0.62 UJ	µg/Kg

Table 4

Qualified Sample Results Due to Outlying Continuing Calibration Results
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

Parameter	Analyte	Calibration Date (mm/dd/yyyy)	%D	Associated Sample ID	Qualified Result	Units
SVOCs	Pentachlorophenol	06/06/2018	32	S-38443-051718-JC-075	250 UJ	µg/Kg
				S-38443-051718-JC-076	65 UJ	µg/Kg
SVOCs	Isophorone	06/05/2018	32	S-38443-052918-JC-097	14 UJ	µg/Kg
				S-38443-052918-JC-087	14 UJ	µg/Kg
				S-38443-052918-JC-090	14 UJ	µg/Kg
				S-38443-052918-JC-094	13 UJ	µg/Kg
				S-38443-052918-JC-096	14 UJ	µg/Kg
SVOCs	Nitrobenzene	06/05/2018	36	S-38443-052918-JC-097	15 UJ	µg/Kg
				S-38443-052918-JC-087	15 UJ	µg/Kg
				S-38443-052918-JC-090	15 UJ	µg/Kg
				S-38443-052918-JC-094	14 UJ	µg/Kg
				S-38443-052918-JC-096	15 UJ	µg/Kg
SVOCs	N-Nitrosodi-n-propylamine	06/05/2018	46	S-38443-052918-JC-097	13 UJ	µg/Kg
				S-38443-052918-JC-087	13 UJ	µg/Kg
				S-38443-052918-JC-090	13 UJ	µg/Kg
				S-38443-052918-JC-094	12 UJ	µg/Kg
				S-38443-052918-JC-096	13 UJ	µg/Kg
SVOCs	2-Nitroaniline	06/06/2018	49	S-38443-052918-JC-085	180 UJ	µg/Kg
				S-38443-052918-JC-086	49 UJ	µg/Kg
				S-38443-052918-JC-088	46 UJ	µg/Kg
				S-38443-052918-JC-091	420 UJ	µg/Kg
				S-38443-052918-JC-092	110 UJ	µg/Kg
				S-38443-052918-JC-093	45 UJ	µg/Kg
				S-38443-052918-JC-095	170 UJ	µg/Kg
				S-38443-052918-JC-098	18000 UJ	µg/Kg
				S-38443-052918-JC-099	600 UJ	µg/Kg

Table 4

Qualified Sample Results Due to Outlying Continuing Calibration Results
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

Parameter	Analyte	Calibration Date (mm/dd/yyyy)	%D	Associated Sample ID	Qualified Result	Units
SVOCs	Benzaldehyde	06/06/2018	55	S-38443-052918-JC-085	110 UJ	µg/Kg
				S-38443-052918-JC-086	28 UJ	µg/Kg
				S-38443-052918-JC-088	26 UJ	µg/Kg
				S-38443-052918-JC-091	240 UJ	µg/Kg
				S-38443-052918-JC-092	65 UJ	µg/Kg
				S-38443-052918-JC-093	26 UJ	µg/Kg
				S-38443-052918-JC-095	98 UJ	µg/Kg
				S-38443-052918-JC-098	10000 UJ	µg/Kg
				S-38443-052918-JC-099	350 UJ	µg/Kg
SVOCs	Isophorone	06/06/2018	41	S-38443-052918-JC-093	13 UJ	µg/Kg
				S-38443-052918-JC-088	14 UJ	µg/Kg
				S-38443-052918-JC-086	15 UJ	µg/Kg
				S-38443-052918-JC-095	51 UJ	µg/Kg
				S-38443-052918-JC-085	55 UJ	µg/Kg
				S-38443-052918-JC-099	180 UJ	µg/Kg
				S-38443-052918-JC-092	34 UJ	µg/Kg
				S-38443-052918-JC-091	130 UJ	µg/Kg
				S-38443-052918-JC-098	5300 UJ	µg/Kg

Table 4

Qualified Sample Results Due to Outlying Continuing Calibration Results
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

Parameter	Analyte	Calibration Date (mm/dd/yyyy)	%D	Associated Sample ID	Qualified Result	Units
SVOCs	Nitrobenzene	06/06/2018	44	S-38443-052918-JC-093	15 UJ	µg/Kg
				S-38443-052918-JC-088	15 UJ	µg/Kg
				S-38443-052918-JC-086	16 UJ	µg/Kg
				S-38443-052918-JC-095	56 UJ	µg/Kg
				S-38443-052918-JC-085	59 UJ	µg/Kg
				S-38443-052918-JC-099	200 UJ	µg/Kg
				S-38443-052918-JC-092	37 UJ	µg/Kg
				S-38443-052918-JC-091	140 UJ	µg/Kg
				S-38443-052918-JC-098	5700 UJ	µg/Kg
SVOCs	N-Nitrosodi-n-propylamine	06/06/2018	52	S-38443-052918-JC-093	12 UJ	µg/Kg
				S-38443-052918-JC-088	13 UJ	µg/Kg
				S-38443-052918-JC-086	13 UJ	µg/Kg
				S-38443-052918-JC-095	47 UJ	µg/Kg
				S-38443-052918-JC-085	50 UJ	µg/Kg
				S-38443-052918-JC-099	170 UJ	µg/Kg
				S-38443-052918-JC-092	31 UJ	µg/Kg
				S-38443-052918-JC-091	120 UJ	µg/Kg
				S-38443-052918-JC-098	4900 UJ	µg/Kg
Pesticides	Endrin aldehyde	12/13/2017	28	S-38443-120717-JC-003	11 UJ	µg/Kg
				S-38443-120717-JC-004	20 UJ	µg/Kg

Table 4

Qualified Sample Results Due to Outlying Continuing Calibration Results
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

Parameter	Analyte	Calibration Date (mm/dd/yyyy)	%D	Associated Sample ID	Qualified Result	Units
Pesticides	Endrin aldehyde	01/08/2018	26	S-38443-121917-JC-013	66 UJ	µg/Kg
				S-38443-121917-JC-014	45 UJ	µg/Kg
				S-38443-121917-JC-015	41 UJ	µg/Kg
				S-38443-122017-JC-016	42 UJ	µg/Kg
				S-38443-122017-JC-018	1200 UJ	µg/Kg
Pesticides	Endrin	01/08/2018	33	S-38443-121917-JC-015	8.0 UJ	µg/Kg
Pesticides	4,4'-DDE	01/31/2018	28	S-38443-011818-JC-052	1.3 UJ	µg/Kg
Pesticides	Endrin	01/31/2018	35	S-38443-011818-JC-052	1.5 UJ	µg/Kg
Pesticides	Methoxychlor	04/08/2018	23	SO-38443-032018-BW-001	29 UJ	µg/Kg
				SO-38443-032018-BW-002	12 UJ	µg/Kg
Pesticides	4,4'-DDT	05/30/2018	29	S-38443-051718-JC-075	1.3 UJ	µg/Kg
				S-38443-051718-JC-083	1.2 UJ	µg/Kg
				S-38443-051718-JC-076	2.5 J	µg/Kg
				S-38443-051718-JC-077	1.3 UJ	µg/Kg
				S-38443-051718-JC-078	1.6 UJ	µg/Kg
				S-38443-051718-JC-079	1.7 UJ	µg/Kg
				S-38443-051718-JC-080	1.9 UJ	µg/Kg
Pesticides	Methoxychlor	05/30/2018	40	S-38443-051718-JC-075	7.3 UJ	µg/Kg
				S-38443-051718-JC-083	6.8 UJ	µg/Kg
				S-38443-051718-JC-076	7.1 UJ	µg/Kg
				S-38443-051718-JC-077	7.5 UJ	µg/Kg
				S-38443-051718-JC-078	9.2 UJ	µg/Kg
				S-38443-051718-JC-079	9.8 UJ	µg/Kg
				S-38443-051718-JC-080	11 UJ	µg/Kg

Table 4

Qualified Sample Results Due to Outlying Continuing Calibration Results
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

Parameter	Analyte	Calibration Date (mm/dd/yyyy)	%D	Associated Sample ID	Qualified Result	Units
Pesticides	4,4'-DDT	05/31/2018	30	S-38443-051718-JC-081	1.8 UJ	µg/Kg
				S-38443-051718-JC-082	2.1 UJ	µg/Kg
Pesticides	Methoxychlor	05/31/2018	40	S-38443-051718-JC-081	11 UJ	µg/Kg
				S-38443-051718-JC-082	12 UJ	µg/Kg
Pesticides	Methoxychlor	06/05/2018	37	S-38443-052918-JC-085	7.3 UJ	µg/Kg
				S-38443-052918-JC-086	7.9 UJ	µg/Kg
				S-38443-052918-JC-087	8.0 UJ	µg/Kg
				S-38443-052918-JC-088	7.6 UJ	µg/Kg
				S-38443-052918-JC-089	75 UJ	µg/Kg
				S-38443-052918-JC-090	7.5 UJ	µg/Kg
				S-38443-052918-JC-091	6.8 UJ	µg/Kg
				S-38443-052918-JC-092	7.7 UJ	µg/Kg
				S-38443-052918-JC-093	7.8 UJ	µg/Kg
				S-38443-052918-JC-094	35 UJ	µg/Kg
				S-38443-052918-JC-095	7.3 UJ	µg/Kg
				S-38443-052918-JC-096	7.8 UJ	µg/Kg
				S-38443-052918-JC-097	7.5 UJ	µg/Kg
				S-38443-052918-JC-099	8.0 UJ	µg/Kg
Pesticides	Methoxychlor	06/12/2018	31	S-38443-053018-JC-100	9.1 UJ	µg/Kg
				S-38443-053018-JC-101	150 UJ	µg/Kg
				S-38443-053018-JC-102	160 UJ	µg/Kg
				S-38443-053018-JC-103	140 UJ	µg/Kg
				S-38443-053018-JC-104	71 UJ	µg/Kg
				S-38443-053018-JC-105	70 UJ	µg/Kg
				S-38443-053018-JC-106	7.3 UJ	µg/Kg
				S-38443-053018-JC-107	8.4 UJ	µg/Kg
				S-38443-053018-JC-108	9.8 UJ	µg/Kg
				S-38443-053018-JC-109	100 UJ	µg/Kg
				S-38443-053018-JC-110	7.8 UJ	µg/Kg
				S-38443-053018-JC-111	7.7 UJ	µg/Kg
				S-38443-053018-JC-112	7.3 UJ	µg/Kg

Table 4

Qualified Sample Results Due to Outlying Continuing Calibration Results
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

Parameter	Analyte	Calibration Date (mm/dd/yyyy)	%D	Associated Sample ID	Qualified Result	Units
Pesticides	Methoxychlor	02/09/2018	26	S-38443-012318-JC-061	1.6 UJ	µg/Kg

Notes:

-- - Not applicable
%D - Percent difference
J - Estimated concentration
PCBs - Polychlorinated Biphenyls
SVOCs - Semi-volatile Organic Compounds
UJ - Not detected; associated reporting limit is estimated
VOCs - Volatile Organic Compounds

Table 5

Qualified Sample Results Due to Analyte Concentrations in the Method Blanks
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

Parameter	Analyte	Analysis Date (mm/dd/yyyy)	Blank Result *	Sample ID	Original Result	Qualified Result	Units
VOCs	Acetone	12/12/2017	4.3 J	S-38443-120717-JC-002	10 J	10 U	µg/Kg
			4.7 J	S-38443-120717-JC-003	11 J	11 U	µg/Kg
			4.5 J	S-38443-120717-JC-004	14 J	14 U	µg/Kg
VOCs	Methylene chloride	12/12/2017	0.87 J	S-38443-120717-JC-002	0.50 J	0.87 U	µg/Kg
			0.94 J	S-38443-120717-JC-003	0.46 J	0.94 U	µg/Kg
			0.91 J	S-38443-120717-JC-004	0.49 J	0.91 U	µg/Kg
VOCs	Methylene chloride	12/13/2017	0.47 J	S-38443-120817-JC-005	0.49 J	0.49 U	µg/Kg
			0.46 J	S-38443-120817-JC-006	0.46 J	0.46 U	µg/Kg
VOCs	2-Butanone	12/26/2017	2.2 J	S-38443-121817-JC-011	4.5 J	4.5 U	µg/Kg
			2.5 J	S-38443-121917-JC-014	12 J	12 U	µg/Kg
			2.4 J	S-38443-122017-JC-016	11 J	11 U	µg/Kg
VOCs	Acetone	12/26/2017	26 J	S-38443-121817-JC-009	9.6 J	26 U	µg/Kg
			24 J	S-38443-121817-JC-011	26	26 U	µg/Kg
			27 J	S-38443-122017-JC-016	58	58 U	µg/Kg
VOCs	Acetone	12/28/2017	181 J	S-38443-121917-JC-015	360 J	360 U	µg/Kg
VOCs	Methylene chloride	12/28/2017	515 J	S-38443-121917-JC-015	100 J	515 U	µg/Kg
VOCs	Acetone	12/30/2017	4.7 J	S-38443-122017-JC-018	26 J	26 U	µg/Kg
	Methylene chloride	12/30/2017	4.5 J	S-38443-122017-JC-018	4.3 J	4.5 U	µg/Kg

Table 5

Qualified Sample Results Due to Analyte Concentrations in the Method Blanks
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

Parameter	Analyte	Analysis Date (mm/dd/yyyy)	Blank Result *	Sample ID	Original Result	Qualified Result	Units
VOCs	Acetone	12/29/2017	276 J	S-38443-122017-JC-020	240 J	276 U	µg/Kg
	Methylene chloride	12/29/2017	106 J	S-38443-122017-JC-020	150 J	150 U	µg/Kg
	Toluene	12/29/2017	62 J	S-38443-122017-JC-020	70 J	70 U	µg/Kg
VOCs	Chlorobenzene	12/30/2017	130 J	S-38443-122117-JC-022	92 J	130 U	µg/Kg
			132 J	S-38443-122117-JC-023	62 J	132 U	µg/Kg
VOCs	Toluene	12/30/2017	56 J	S-38443-122117-JC-022	35 J	56 U	µg/Kg
VOCs	Acetone	01/05/2018	7.41 J	S-38443-010318-JC-025	15 J	15 U	µg/Kg
VOCs	Methylene chloride	01/05/2018	0.58 J	S-38443-010318-JC-025	0.55 J	0.58 U	µg/Kg
VOCs	Methylene chloride	01/06/2018	0.63 J	S-38443-010318-JC-026	0.56 J	0.63 U	µg/Kg
VOCs	Methylene chloride	01/06/2018	1.3 J	S-38443-010418-JC-027	0.82 J	1.3 U	µg/Kg
VOCs	Methylene chloride	01/11/2018	165 J	S-38443-010918-JC-036	250 J	250 U	µg/Kg
VOCs	Methylene chloride	01/11/2018	12 J	S-38443-010918-JC-035	13	13 U	µg/Kg
VOCs	Acetone	01/15/2018	19 J	S-38443-011118-JC-039	7.4 J	19 U	µg/Kg
VOCs	Methylene chloride	01/15/2018	16 J	S-38443-011118-JC-038	1.5 J	16 U	µg/Kg
			19 J	S-38443-011118-JC-039	1.8 J	19 U	µg/Kg
			14 J	S-38443-011118-JC-040	0.96 J	14 U	µg/Kg
			14 J	S-38443-011118-JC-041	1.1 J	14 U	µg/Kg
			16 J	S-38443-011118-JC-042	1.1 J	16 U	µg/Kg

Table 5

Qualified Sample Results Due to Analyte Concentrations in the Method Blanks
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

Parameter	Analyte	Analysis Date (mm/dd/yyyy)	Blank Result *	Sample ID	Original Result	Qualified Result	Units
VOCs	Methylene chloride	01/18/2018	6.1 J	S-38443-011618-JC-046	3.9 J	6.1 U	µg/Kg
VOCs	Methylene chloride	01/18/2018	90 J	S-38443-011618-JC-044	160 J	160 U	µg/Kg
			87 J	S-38443-011618-JC-045	100 J	100 U	µg/Kg
VOCs	Methylene chloride	01/19/2018	0.86 J	S-38443-011718-JC-047	0.75 J	0.86 U	µg/Kg
							µg/Kg
VOCs	Acetone	01/23/2018	8.8 J	S-38443-011818-JC-050	2.7 J	8.8 U	µg/Kg
			9.0 J	S-38443-011818-JC-053	3.3 J	9.0 U	µg/Kg
			9.1 J	S-38443-011918-JC-054	11 J	11 U	µg/Kg
			8.9 J	S-38443-011918-JC-055	4.2 J	8.9 U	µg/Kg
VOCs	Methylene chloride	01/23/2018	5.3 J	S-38443-011818-JC-050	4.6	5.3 U	µg/Kg
			4.9 J	S-38443-011818-JC-051	5.0 J	5.0 U	µg/Kg
			5.1 J	S-38443-011818-JC-052	6.8	6.8 U	µg/Kg
			5.4 J	S-38443-011818-JC-053	4.4 J	5.4 U	µg/Kg
			5.5 J	S-38443-011918-JC-054	1.3 J	5.5 U	µg/Kg
			5.3 J	S-38443-011918-JC-055	1.0 J	5.3 U	µg/Kg
VOCs	Methylene chloride	01/24/2018	5.8 J	S-38443-012218-JC-057	3.3 J	5.8 U	µg/Kg
			5.6 J	S-38443-012218-JC-059	2.4 J	5.6 U	µg/Kg
VOCs	Methylene chloride	03/22/2018	3125 J	SO-38443-032018-BW-001	6100 J	6100 U	µg/Kg
VOCs	Acetone	03/23/2018	11.9 J	SO-38443-032018-BW-002	18 J	18 U	µg/Kg
VOCs	Acetone	05/19/2018	6.1 J	S-38443-051618-JC-074	7.9 J	7.9 U	µg/Kg

Table 5

Qualified Sample Results Due to Analyte Concentrations in the Method Blanks
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

Parameter	Analyte	Analysis Date (mm/dd/yyyy)	Blank Result *	Sample ID	Original Result	Qualified Result	Units
VOCs	Acetone	05/21/2018	6.1 J	S-38443-051718-JC-077	2.7 J	6.1 U	µg/Kg
SVOCs	bis(2-Ethylhexyl)phthalate (DEHP)		24.0 J	S-38443-120717-JC-003	37 J	37 U	µg/Kg
SVOCs	Diethyl phthalate	01/04/2018	35 J	S-38443-121917-JC-013	32 J	35 U	µg/Kg
			22 J	S-38443-122017-JC-016	30 J	30 U	µg/Kg
			22 J	S-38443-122117-JC-022	39 J	39 U	µg/Kg
SVOCs	bis(2-Ethylhexyl)phthalate (DEHP)	01/08/2018	135 J	S-38443-010318-JC-025	220 J	220 U	µg/Kg
			27 J	S-38443-010318-JC-026	51 J	51 U	µg/Kg
SVOCs	Diethyl phthalate	01/08/2018	56 J	S-38443-010318-JC-026	37 J	56 U	µg/Kg
SVOCs	Diethyl phthalate	02/07/2018	20.5 J	S-38443-012218-JC-057	39 J	39 J	µg/Kg
SVOCs	bis(2-Ethylhexyl)phthalate (DEHP)	03/27/2018	5000 J	SO-38443-032018-BW-001	2300 J	4000 U	µg/Kg
			1990 J	SO-38443-032018-BW-002	190 J	1920 U	µg/Kg
SVOCs	bis(2-Ethylhexyl)phthalate (DEHP)	05/15/2018	27.8 J	S-38443-050818-JC-070	46 J	46 U	µg/Kg
			26.5 J	S-38443-050818-JC-071	44 J	44 U	µg/Kg
Metals	Sodium	12/12/2017	23.8 J	S-38443-120717-JC-002	140 J	140 U	mg/kg
				S-38443-120717-JC-003	140 J	140 U	mg/kg
Metals	Sodium	12/12/2017	23.8 J	S-38443-120817-JC-005	110 J	110 U	mg/kg
				S-38443-120817-JC-006	100 J	100 U	mg/kg
Metals	Sodium	01/22/2018	55.0 J	S-38443-011718-JC-048	160 J	160 U	mg/kg

Table 5

Qualified Sample Results Due to Analyte Concentrations in the Method Blanks
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

Parameter	Analyte	Analysis Date (mm/dd/yyyy)	Blank Result *	Sample ID	Original Result	Qualified Result	Units
General Chemistry	Cyanide (total)	12/13/2017	0.132 J	S-38443-120717-JC-002	0.25 J	0.25 U	mg/kg
				S-38443-120717-JC-003	0.19 J	0.19 U	mg/kg
				S-38443-120717-JC-004	0.37 J	0.37 U	mg/kg
General Chemistry	Cyanide (total)	12/13/2017	0.132 J	S-38443-120817-JC-005	0.27 J	0.27 U	mg/kg
				S-38443-120817-JC-006	0.24 J	0.24 U	mg/kg
General Chemistry	Cyanide (total)	01/15/2018	0.118 J	S-38443-011118-JC-038	0.59 J	0.59 U	mg/kg
				S-38443-011118-JC-039	0.25 J	0.25 U	mg/kg
				S-38443-011118-JC-040	0.15 J	0.15 U	mg/kg
				S-38443-011118-JC-041	0.13 J	0.13 U	mg/kg
General Chemistry	Cyanide (total)	01/15/2018	0.118 J	S-38443-011218-JC-043	0.47 J	0.47 U	mg/kg
General Chemistry	Cyanide (total)	01/23/2018	0.053 J	S-38443-011918-JC-055	0.088 J	0.088 U	mg/kg
General Chemistry	Cyanide (total)	01/23/2018	0.053 J	S-38443-012218-JC-057	0.16 J	0.16 U	mg/kg
				S-38443-012218-JC-059	0.12 J	0.12 U	mg/kg
General Chemistry	Cyanide (total)	03/26/2018	0.068 J	SO-38443-032018-BW-002	0.15 J	0.15 U	mg/kg

Notes:

* - Blank result adjusted for moisture
J - Estimated concentration
SVOCs - Semi-volatile Organic Compounds
U - Not detected at the associated reporting limit
VOCs - Volatile Organic Compounds

Table 6

Qualified Sample Results Due to Analyte Concentrations in the Instrument Blanks
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

Parameter	Analyte	Blank ID	Analysis Date (mm/dd/yyyy)	Blank Result*	Sample ID	Original Result	Qualified Result	Units
Metals	Antimony	CCB	01/24/2018	0.18 J	S-38443-011818-JC-050	0.34 J	0.34 U	mg/kg

Notes:

CCB - Continuing Calibration Blank
* - Blank result adjusted for sample factors where applicable
U - Not detected at the associated reporting limit
J - Estimated concentration

Table 7

Qualified Sample Data Due to Outlying of Surrogate Recoveries
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

Parameter	Sample ID	Surrogate	Surrogate % Recovery	Control Limits % Recovery	Analyte	Qualified Result	Units
VOCs	S-38443-121917-JC-013	1,2-Dichloroethane-d4	143	61-127	4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	9.9 J	µg/Kg
		Dibromofluoromethane	137	43-131	Acetone	78 J	µg/Kg
		p-Bromofluorobenzene	254	61-132	Carbon disulfide	1.4 J	µg/Kg
		Toluene-D8	175	66-125	Ethylbenzene	0.95 J	µg/Kg
					Toluene	24 J	µg/Kg
VOCs	S-38443-121917-JC-014	p-Bromofluorobenzene	136	61-132	2-Butanone (Methyl ethyl ketone) (MEK)	12 J	µg/Kg
					Acetone	55 J	µg/Kg
					Benzene	0.98 J	µg/Kg
					Carbon disulfide	1.2 J	µg/Kg
					cis-1,2-Dichloroethene	0.79 J	µg/Kg
					Cyclohexane	0.37 J	µg/Kg
					Ethylbenzene	0.37 J	µg/Kg
					Isopropyl benzene	1.3 J	µg/Kg
					Methyl cyclohexane	0.83 J	µg/Kg
					Toluene	0.52 J	µg/Kg
					Xylenes (total)	1.4 J	µg/Kg
VOCs	SO-38443-032018-BW-001	p-Bromofluorobenzene	281	58-142	Ethylbenzene	210000 J	µg/Kg
					Isopropyl benzene	15000 J	µg/Kg
					Methyl cyclohexane	14000 J	µg/Kg
					Toluene	6500 J	µg/Kg
					Xylenes (total)	590000 J	µg/Kg
							µg/Kg

Table 7

Qualified Sample Data Due to Outlying of Surrogate Recoveries
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

Parameter	Sample ID	Surrogate	Surrogate % Recovery	Control Limits % Recovery	Analyte	Qualified Result	Units
VOCs	S-38443-051718-JC-079	p-Bromofluorobenzene	8	58-142	1,1,1-Trichloroethane	R	µg/Kg
		Toluene-D8	24	61-137	1,1,2,2-Tetrachloroethane	R	µg/Kg
					1,1,2-Trichloroethane	R	µg/Kg
					1,1-Dichloroethane	R	µg/Kg
					1,1-Dichloroethene	R	µg/Kg
					1,2,4-Trichlorobenzene	R	µg/Kg
					1,2-Dibromo-3-chloropropane (DBCP)	R	µg/Kg
					1,2-Dibromoethane (Ethylene dibromide)	R	µg/Kg
					1,2-Dichlorobenzene	R	µg/Kg
					1,2-Dichloroethane	R	µg/Kg
					1,2-Dichloropropane	R	µg/Kg
					1,3-Dichlorobenzene	R	µg/Kg
					1,4-Dichlorobenzene	R	µg/Kg
					2-Butanone (Methyl ethyl ketone) (MEK)	R	µg/Kg
					2-Hexanone	R	µg/Kg
					4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	R	µg/Kg
					Acetone	R	µg/Kg
					Benzene	R	µg/Kg
					Bromodichloromethane	R	µg/Kg
					Bromoform	R	µg/Kg
					Bromomethane (Methyl bromide)	R	µg/Kg
					Carbon disulfide	R	µg/Kg
					Carbon tetrachloride	R	µg/Kg
					Chlorobenzene	R	µg/Kg
					Chloroethane	R	µg/Kg
					Chloroform (Trichloromethane)	R	µg/Kg
					Chloromethane (Methyl chloride)	R	µg/Kg
					cis-1,2-Dichloroethene	R	µg/Kg
					cis-1,3-Dichloropropene	R	µg/Kg
					Cyclohexane	R	µg/Kg
					Dibromochloromethane	R	µg/Kg
					Dichlorodifluoromethane (CFC-12)	R	µg/Kg
					Ethylbenzene	R	µg/Kg
					Isopropyl benzene	R	µg/Kg
					Methyl acetate	R	µg/Kg
					Methyl cyclohexane	R	µg/Kg
					Methyl tert butyl ether (MTBE)	R	µg/Kg

Table 7

Qualified Sample Data Due to Outlying of Surrogate Recoveries
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

Parameter	Sample ID	Surrogate	Surrogate % Recovery	Control Limits % Recovery	Analyte	Qualified Result	Units
VOCs	S-38443-051718-JC-079				Methylene chloride	R	µg/Kg
					Styrene	R	µg/Kg
					Tetrachloroethene	R	µg/Kg
					Toluene	R	µg/Kg
					trans-1,2-Dichloroethene	R	µg/Kg
					trans-1,3-Dichloropropene	R	µg/Kg
					Trichloroethene	R	µg/Kg
					Trichlorofluoromethane (CFC-11)	R	µg/Kg
					Trifluorotrichloroethane (CFC-113)	R	µg/Kg
					Vinyl chloride	R	µg/Kg
					Xylenes (total)	R	µg/Kg
VOCs	S-38443-051718-JC-081	p-Bromofluorobenzene	4	58-142	1,1,1-Trichloroethane	94 J	µg/Kg
		Toluene-D8	13	61-137	1,1,2,2-Tetrachloroethane	R	µg/Kg
					1,1,2-Trichloroethane	R	µg/Kg
					1,1-Dichloroethane	R	µg/Kg
					1,1-Dichloroethene	R	µg/Kg
					1,2,4-Trichlorobenzene	R	µg/Kg
					1,2-Dibromo-3-chloropropane (DBCP)	R	µg/Kg
					1,2-Dibromoethane (Ethylene dibromide)	R	µg/Kg
					1,2-Dichlorobenzene	R	µg/Kg
					1,2-Dichloroethane	R	µg/Kg
					1,2-Dichloropropane	R	µg/Kg
					1,3-Dichlorobenzene	R	µg/Kg
					1,4-Dichlorobenzene	R	µg/Kg
					2-Butanone (Methyl ethyl ketone) (MEK)	R	µg/Kg
					2-Hexanone	R	µg/Kg
					4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	R	µg/Kg
					Acetone	R	µg/Kg
					Benzene	R	µg/Kg
					Bromodichloromethane	R	µg/Kg
					Bromoform	R	µg/Kg
					Bromomethane (Methyl bromide)	R	µg/Kg
					Carbon disulfide	R	µg/Kg
					Carbon tetrachloride	R	µg/Kg
					Chlorobenzene	R	µg/Kg
					Chloroethane	R	µg/Kg

Table 7

Qualified Sample Data Due to Outlying of Surrogate Recoveries
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

Parameter	Sample ID	Surrogate	Surrogate % Recovery	Control Limits % Recovery	Analyte	Qualified Result	Units
VOCs	S-38443-051718-JC-081				Chloroform (Trichloromethane)	R	µg/Kg
					Chloromethane (Methyl chloride)	R	µg/Kg
					cis-1,2-Dichloroethene	R	µg/Kg
					cis-1,3-Dichloropropene	R	µg/Kg
					Cyclohexane	R	µg/Kg
					Dibromochloromethane	R	µg/Kg
					Dichlorodifluoromethane (CFC-12)	R	µg/Kg
					Ethylbenzene	R	µg/Kg
					Isopropyl benzene	R	µg/Kg
					Methyl acetate	R	µg/Kg
					Methyl cyclohexane	R	µg/Kg
					Methyl tert butyl ether (MTBE)	R	µg/Kg
					Methylene chloride	R	µg/Kg
					Styrene	R	µg/Kg
					Tetrachloroethene	R	µg/Kg
					Toluene	R	µg/Kg
					trans-1,2-Dichloroethene	R	µg/Kg
					trans-1,3-Dichloropropene	R	µg/Kg
					Trichloroethene	R	µg/Kg
					Trichlorofluoromethane (CFC-11)	R	µg/Kg
					Trifluorotrichloroethane (CFC-113)	R	µg/Kg
					Vinyl chloride	R	µg/Kg
					Xylenes (total)	R	µg/Kg
							µg/Kg
VOCs	S-38443-051718-JC-076	p-Bromofluorobenzene	42	61-132	1,1,1-Trichloroethane	0.41 UJ	µg/Kg
		Toluene-D8	135	66-125	1,1,2,2-Tetrachloroethane	0.47 UJ	µg/Kg
					1,1,2-Trichloroethane	0.70 UJ	µg/Kg
					1,1-Dichloroethane	0.59 UJ	µg/Kg
					1,1-Dichloroethene	0.97 UJ	µg/Kg
					1,2,4-Trichlorobenzene	0.43 UJ	µg/Kg
					1,2-Dibromo-3-chloropropane (DBCP)	1.2 UJ	µg/Kg
					1,2-Dibromoethane (Ethylene dibromide)	0.63 UJ	µg/Kg
					1,2-Dichlorobenzene	0.40 UJ	µg/Kg
					1,2-Dichloroethane	0.52 UJ	µg/Kg
					1,2-Dichloropropane	0.56 UJ	µg/Kg
					1,3-Dichlorobenzene	0.52 UJ	µg/Kg
					1,4-Dichlorobenzene	0.63 UJ	µg/Kg

Table 7

Qualified Sample Data Due to Outlying of Surrogate Recoveries
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

Parameter	Sample ID	Surrogate	Surrogate % Recovery	Control Limits % Recovery	Analyte	Qualified Result	Units
VOCs	S-38443-051718-JC-076				2-Butanone (Methyl ethyl ketone) (MEK)	2.3 UJ	µg/Kg
					2-Hexanone	1.0 UJ	µg/Kg
					4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	1.6 UJ	µg/Kg
					Acetone	5.5 UJ	µg/Kg
					Benzene	0.58 UJ	µg/Kg
					Bromodichloromethane	0.59 UJ	µg/Kg
					Bromoform	0.72 UJ	µg/Kg
					Bromomethane (Methyl bromide)	1.1 UJ	µg/Kg
					Carbon disulfide	0.38 UJ	µg/Kg
					Carbon tetrachloride	0.45 UJ	µg/Kg
					Chlorobenzene	0.59 UJ	µg/Kg
					Chloroethane	0.68 UJ	µg/Kg
					Chloroform (Trichloromethane)	0.41 UJ	µg/Kg
					Chloromethane (Methyl chloride)	0.68 UJ	µg/Kg
					cis-1,2-Dichloroethene	0.50 UJ	µg/Kg
					cis-1,3-Dichloropropene	0.47 UJ	µg/Kg
					Cyclohexane	0.38 UJ	µg/Kg
					Dibromochloromethane	0.54 UJ	µg/Kg
					Dichlorodifluoromethane (CFC-12)	0.63 UJ	µg/Kg
					Ethylbenzene	0.49 UJ	µg/Kg
					Isopropyl benzene	0.36 UJ	µg/Kg
					Methyl acetate	2.1 UJ	µg/Kg
					Methyl cyclohexane	0.55 J	µg/Kg
					Methyl tert butyl ether (MTBE)	0.49 UJ	µg/Kg
					Methylene chloride	0.43 UJ	µg/Kg
					Styrene	0.49 UJ	µg/Kg
					Tetrachloroethene	0.67 UJ	µg/Kg
					Toluene	0.61 UJ	µg/Kg
					trans-1,2-Dichloroethene	0.68 UJ	µg/Kg
					trans-1,3-Dichloropropene	0.38 UJ	µg/Kg
					Trichloroethene	0.74 UJ	µg/Kg
					Trichlorofluoromethane (CFC-11)	0.43 UJ	µg/Kg
					Trifluorotrichloroethane (CFC-113)	0.88 UJ	µg/Kg
					Vinyl chloride	0.50 UJ	µg/Kg
					Xylenes (total)	0.72 UJ	µg/Kg

Table 7

Qualified Sample Data Due to Outlying of Surrogate Recoveries
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

Parameter	Sample ID	Surrogate	Surrogate % Recovery	Control Limits % Recovery	Analyte	Qualified Result	Units
VOCs	S-38443-051718-JC-078	p-Bromofluorobenzene	11	58-142	1,1,1-Trichloroethane	50 UJ	µg/Kg
		Toluene-D8	32	61-137	1,1,2,2-Tetrachloroethane	43 UJ	µg/Kg
					1,1,2-Trichloroethane	41 UJ	µg/Kg
					1,1-Dichloroethane	56 UJ	µg/Kg
					1,1-Dichloroethene	65 UJ	µg/Kg
					1,2,4-Trichlorobenzene	47 UJ	µg/Kg
					1,2-Dibromo-3-chloropropane (DBCP)	86 UJ	µg/Kg
					1,2-Dibromoethane (Ethylene dibromide)	41 UJ	µg/Kg
					1,2-Dichlorobenzene	32 UJ	µg/Kg
					1,2-Dichloroethane	54 UJ	µg/Kg
					1,2-Dichloropropane	54 UJ	µg/Kg
					1,3-Dichlorobenzene	68 UJ	µg/Kg
					1,4-Dichlorobenzene	49 UJ	µg/Kg
					2-Butanone (Methyl ethyl ketone) (MEK)	90 UJ	µg/Kg
					2-Hexanone	150 UJ	µg/Kg
					4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	72 UJ	µg/Kg
					Acetone	170 UJ	µg/Kg
					Benzene	43 UJ	µg/Kg
					Bromodichloromethane	32 UJ	µg/Kg
					Bromoform	41 UJ	µg/Kg
					Bromomethane (Methyl bromide)	50 UJ	µg/Kg
					Carbon disulfide	32 UJ	µg/Kg
					Carbon tetrachloride	49 UJ	µg/Kg
					Chlorobenzene	54 UJ	µg/Kg
					Chloroethane	50 UJ	µg/Kg
					Chloroform (Trichloromethane)	43 UJ	µg/Kg
					Chloromethane (Methyl chloride)	32 UJ	µg/Kg
					cis-1,2-Dichloroethene	63 UJ	µg/Kg
					cis-1,3-Dichloropropene	41 UJ	µg/Kg
					Cyclohexane	54 UJ	µg/Kg
					Dibromochloromethane	61 UJ	µg/Kg
					Dichlorodifluoromethane (CFC-12)	40 UJ	µg/Kg
					Ethylbenzene	63 UJ	µg/Kg
					Isopropyl benzene	61 UJ	µg/Kg
					Methyl acetate	130 UJ	µg/Kg
					Methyl cyclohexane	67 UJ	µg/Kg
					Methyl tert butyl ether (MTBE)	47 UJ	µg/Kg

Table 7

Qualified Sample Data Due to Outlying of Surrogate Recoveries
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

Parameter	Sample ID	Surrogate	Surrogate % Recovery	Control Limits % Recovery	Analyte	Qualified Result	Units
VOCs	S-38443-051718-JC-078				Methylene chloride	120 UJ	µg/Kg
					Styrene	18 UJ	µg/Kg
					Tetrachloroethene	72 J	µg/Kg
					Toluene	43 UJ	µg/Kg
					trans-1,2-Dichloroethene	63 UJ	µg/Kg
					trans-1,3-Dichloropropene	27 UJ	µg/Kg
					Trichloroethene	67 UJ	µg/Kg
					Trichlorofluoromethane (CFC-11)	61 UJ	µg/Kg
					Trifluorotrichloroethane (CFC-113)	41 UJ	µg/Kg
					Vinyl chloride	31 UJ	µg/Kg
					Xylenes (total)	50 UJ	µg/Kg
VOCs	S-38443-051718-JC-082	Dibromofluoromethane	16	43-131	1,1,1-Trichloroethane	0.58 UJ	µg/Kg
					1,1,2,2-Tetrachloroethane	0.65 UJ	µg/Kg
					1,1,2-Trichloroethane	0.98 UJ	µg/Kg
					1,1-Dichloroethane	0.83 UJ	µg/Kg
					1,1-Dichloroethene	1.4 UJ	µg/Kg
					1,2,4-Trichlorobenzene	0.60 UJ	µg/Kg
					1,2-Dibromo-3-chloropropane (DBCP)	1.7 UJ	µg/Kg
					1,2-Dibromoethane (Ethylene dibromide)	0.88 UJ	µg/Kg
					1,2-Dichlorobenzene	0.55 UJ	µg/Kg
					1,2-Dichloroethane	0.73 UJ	µg/Kg
					1,2-Dichloropropane	0.78 UJ	µg/Kg
					1,3-Dichlorobenzene	0.73 UJ	µg/Kg
					1,4-Dichlorobenzene	0.88 UJ	µg/Kg
					2-Butanone (Methyl ethyl ketone) (MEK)	9.9 J	µg/Kg
					2-Hexanone	1.5 UJ	µg/Kg
					4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	2.2 UJ	µg/Kg
					Acetone	81 J	µg/Kg
					Benzene	0.90 J	µg/Kg
					Bromodichloromethane	0.83 UJ	µg/Kg
					Bromoform	1.0 UJ	µg/Kg
					Bromomethane (Methyl bromide)	1.5 UJ	µg/Kg
					Carbon disulfide	0.53 UJ	µg/Kg
					Carbon tetrachloride	0.63 UJ	µg/Kg
					Chlorobenzene	0.83 UJ	µg/Kg
					Chloroethane	0.96 UJ	µg/Kg

Table 7

Qualified Sample Data Due to Outlying of Surrogate Recoveries
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

Parameter	Sample ID	Surrogate	Surrogate % Recovery	Control Limits % Recovery	Analyte	Qualified Result	Units
VOCs	S-38443-051718-JC-082				Chloroform (Trichloromethane)	0.58 UJ	µg/Kg
					Chloromethane (Methyl chloride)	0.96 UJ	µg/Kg
					cis-1,2-Dichloroethene	0.70 UJ	µg/Kg
					cis-1,3-Dichloropropene	0.65 UJ	µg/Kg
					Cyclohexane	1.2 J	µg/Kg
					Dibromochloromethane	0.75 UJ	µg/Kg
					Dichlorodifluoromethane (CFC-12)	0.88 UJ	µg/Kg
					Ethylbenzene	0.68 UJ	µg/Kg
					Isopropyl benzene	0.50 UJ	µg/Kg
					Methyl acetate	2.9 UJ	µg/Kg
					Methyl cyclohexane	2.0 J	µg/Kg
					Methyl tert butyl ether (MTBE)	0.68 UJ	µg/Kg
					Methylene chloride	0.60 UJ	µg/Kg
					Styrene	0.68 UJ	µg/Kg
					Tetrachloroethene	0.93 UJ	µg/Kg
					Toluene	1.2 J	µg/Kg
					trans-1,2-Dichloroethene	0.96 UJ	µg/Kg
					trans-1,3-Dichloropropene	0.53 UJ	µg/Kg
					Trichloroethene	1.0 UJ	µg/Kg
					Trichlorofluoromethane (CFC-11)	0.60 UJ	µg/Kg
					Trifluorotrichloroethane (CFC-113)	1.2 UJ	µg/Kg
					Vinyl chloride	0.70 UJ	µg/Kg
					Xylenes (total)	1.0 UJ	µg/Kg
VOCs	S-38443-052918-JC-088	p-Bromofluorobenzene	39	61-132	1,1,1-Trichloroethane	0.75 UJ	µg/Kg
					1,1,2,2-Tetrachloroethane	1.3 UJ	µg/Kg
					1,1,2-Trichloroethane	1.0 UJ	µg/Kg
					1,1-Dichloroethane	0.64 UJ	µg/Kg
					1,1-Dichloroethene	0.83 UJ	µg/Kg
					1,2,4-Trichlorobenzene	0.53 UJ	µg/Kg
					1,2-Dibromo-3-chloropropane (DBCP)	3.3 UJ	µg/Kg
					1,2-Dibromoethane (Ethylene dibromide)	0.71 UJ	µg/Kg
					1,2-Dichlorobenzene	1.0 UJ	µg/Kg
					1,2-Dichloroethane	0.71 UJ	µg/Kg
					1,2-Dichloropropane	0.78 UJ	µg/Kg
					1,3-Dichlorobenzene	0.75 UJ	µg/Kg
					1,4-Dichlorobenzene	0.81 UJ	µg/Kg

Table 7

Qualified Sample Data Due to Outlying of Surrogate Recoveries
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
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Parameter	Sample ID	Surrogate	Surrogate % Recovery	Control Limits % Recovery	Analyte	Qualified Result	Units
VOCs	S-38443-052918-JC-088				2-Butanone (Methyl ethyl ketone) (MEK)	3.3 UJ	µg/Kg
					2-Hexanone	3.8 UJ	µg/Kg
					4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	3.4 UJ	µg/Kg
					Acetone	19 UJ	µg/Kg
					Benzene	0.64 UJ	µg/Kg
					Bromodichloromethane	0.62 UJ	µg/Kg
					Bromoform	2.2 UJ	µg/Kg
					Bromomethane (Methyl bromide)	0.91 UJ	µg/Kg
					Carbon disulfide	1.1 UJ	µg/Kg
					Carbon tetrachloride	3.0 UJ	µg/Kg
					Chlorobenzene	0.84 UJ	µg/Kg
					Chloroethane	1.1 UJ	µg/Kg
					Chloroform (Trichloromethane)	0.73 UJ	µg/Kg
					Chloromethane (Methyl chloride)	0.96 UJ	µg/Kg
					cis-1,2-Dichloroethene	0.60 UJ	µg/Kg
					cis-1,3-Dichloropropene	1.3 UJ	µg/Kg
					Cyclohexane	1.3 UJ	µg/Kg
					Dibromochloromethane	2.6 UJ	µg/Kg
					Dichlorodifluoromethane (CFC-12)	0.87 UJ	µg/Kg
					Ethylbenzene	0.96 UJ	µg/Kg
					Isopropyl benzene	0.77 UJ	µg/Kg
					Methyl acetate	3.1 UJ	µg/Kg
					Methyl cyclohexane	1.1 UJ	µg/Kg
					Methyl tert butyl ether (MTBE)	0.75 UJ	µg/Kg
					Methylene chloride	11 UJ	µg/Kg
					Styrene	1.1 UJ	µg/Kg
					Tetrachloroethene	0.67 UJ	µg/Kg
					Toluene	0.71 UJ	µg/Kg
					trans-1,2-Dichloroethene	0.43 UJ	µg/Kg
					trans-1,3-Dichloropropene	0.95 UJ	µg/Kg
					Trichloroethene	0.58 UJ	µg/Kg
					Trichlorofluoromethane (CFC-11)	0.99 UJ	µg/Kg
					Trifluorotrichloroethane (CFC-113)	1.2 UJ	µg/Kg
					Vinyl chloride	0.77 UJ	µg/Kg
					Xylenes (total)	1.5 UJ	µg/Kg

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Qualified Sample Data Due to Outlying of Surrogate Recoveries
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

Parameter	Sample ID	Surrogate	Surrogate % Recovery	Control Limits % Recovery	Analyte	Qualified Result	Units
VOCs	S-38443-053018-JC-111	Toluene-D8	137	66-125	Acetone	180 J	µg/Kg
		p-Bromofluorobenzene	174	61-132	Tetrachloroethene	3.5 J	µg/Kg
							µg/Kg
VOCs	S-38443-053018-JC-104	p-Bromofluorobenzene	54	61-132	1,1,1-Trichloroethane	1.3 UJ	µg/Kg
					1,1,2,2-Tetrachloroethane	2.4 UJ	µg/Kg
					1,1,2-Trichloroethane	1.9 UJ	µg/Kg
					1,1-Dichloroethane	1.1 UJ	µg/Kg
					1,1-Dichloroethene	1.5 UJ	µg/Kg
					1,2,4-Trichlorobenzene	0.94 UJ	µg/Kg
					1,2-Dibromo-3-chloropropane (DBCP)	5.9 UJ	µg/Kg
					1,2-Dibromoethane (Ethylene dibromide)	1.3 UJ	µg/Kg
					1,2-Dichlorobenzene	1.8 UJ	µg/Kg
					1,2-Dichloroethane	1.3 UJ	µg/Kg
					1,2-Dichloropropane	1.4 UJ	µg/Kg
					1,3-Dichlorobenzene	1.3 UJ	µg/Kg
					1,4-Dichlorobenzene	1.5 UJ	µg/Kg
					2-Butanone (Methyl ethyl ketone) (MEK)	5.9 UJ	µg/Kg
					2-Hexanone	6.7 UJ	µg/Kg
					4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	6.1 UJ	µg/Kg
					Acetone	35 UJ	µg/Kg
					Benzene	1.1 UJ	µg/Kg
					Bromodichloromethane	1.1 UJ	µg/Kg
					Bromoform	4.0 UJ	µg/Kg
					Bromomethane (Methyl bromide)	1.6 UJ	µg/Kg
					Carbon disulfide	1.9 UJ	µg/Kg
					Carbon tetrachloride	5.4 UJ	µg/Kg
					Chlorobenzene	1.5 UJ	µg/Kg
					Chloroethane	2.0 UJ	µg/Kg
					Chloroform (Trichloromethane)	1.3 UJ	µg/Kg
					Chloromethane (Methyl chloride)	1.7 UJ	µg/Kg
					cis-1,2-Dichloroethene	1.1 UJ	µg/Kg
					cis-1,3-Dichloropropene	2.4 UJ	µg/Kg
					Cyclohexane	2.3 UJ	µg/Kg
					Dibromochloromethane	4.6 UJ	µg/Kg
					Dichlorodifluoromethane (CFC-12)	1.6 UJ	µg/Kg
					Ethylbenzene	1.7 UJ	µg/Kg
					Isopropyl benzene	1.4 UJ	µg/Kg

Table 7

Qualified Sample Data Due to Outlying of Surrogate Recoveries
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

Parameter	Sample ID	Surrogate	Surrogate % Recovery	Control Limits % Recovery	Analyte	Qualified Result	Units
VOCs	S-38443-053018-JC-104				Methyl acetate	5.6 UJ	µg/Kg
					Methyl cyclohexane	2.0 UJ	µg/Kg
					Methyl tert butyl ether (MTBE)	1.3 UJ	µg/Kg
					Methylene chloride	20 UJ	µg/Kg
					Styrene	1.9 UJ	µg/Kg
					Tetrachloroethene	1.2 UJ	µg/Kg
					Toluene	1.3 UJ	µg/Kg
					trans-1,2-Dichloroethene	0.77 UJ	µg/Kg
					trans-1,3-Dichloropropene	1.7 UJ	µg/Kg
					Trichloroethene	1.0 UJ	µg/Kg
					Trichlorofluoromethane (CFC-11)	1.8 UJ	µg/Kg
					Trifluorotrichloroethane (CFC-113)	2.1 UJ	µg/Kg
					Vinyl chloride	1.4 UJ	µg/Kg
					Xylenes (total)	2.6 UJ	µg/Kg
VOCs	S-38443-053018-JC-108	Dibromofluoromethane	20	43-131	1,1,1-Trichloroethane	1.2 UJ	µg/Kg
					1,1,2,2-Tetrachloroethane	2.1 UJ	µg/Kg
					1,1,2-Trichloroethane	1.6 UJ	µg/Kg
					1,1-Dichloroethane	1.0 UJ	µg/Kg
					1,1-Dichloroethene	1.3 UJ	µg/Kg
					1,2,4-Trichlorobenzene	0.83 UJ	µg/Kg
					1,2-Dibromo-3-chloropropane (DBCP)	5.2 UJ	µg/Kg
					1,2-Dibromoethane (Ethylene dibromide)	1.1 UJ	µg/Kg
					1,2-Dichlorobenzene	1.6 UJ	µg/Kg
					1,2-Dichloroethane	1.1 UJ	µg/Kg
					1,2-Dichloropropane	1.2 UJ	µg/Kg
					1,3-Dichlorobenzene	1.2 UJ	µg/Kg
					1,4-Dichlorobenzene	1.3 UJ	µg/Kg
					2-Butanone (Methyl ethyl ketone) (MEK)	16 J	µg/Kg
					2-Hexanone	5.9 UJ	µg/Kg
					4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	5.4 UJ	µg/Kg
					Acetone	140 J	µg/Kg
					Benzene	1.0 UJ	µg/Kg
					Bromodichloromethane	0.98 UJ	µg/Kg
					Bromoform	3.5 UJ	µg/Kg
					Bromomethane (Methyl bromide)	1.4 UJ	µg/Kg
					Carbon disulfide	1.7 UJ	µg/Kg

Table 7

Qualified Sample Data Due to Outlying of Surrogate Recoveries
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

Parameter	Sample ID	Surrogate	Surrogate % Recovery	Control Limits % Recovery	Analyte	Qualified Result	Units
VOCs	S-38443-053018-JC-108				Carbon tetrachloride	4.7 UJ	µg/Kg
					Chlorobenzene	1.3 UJ	µg/Kg
					Chloroethane	1.8 UJ	µg/Kg
					Chloroform (Trichloromethane)	1.1 UJ	µg/Kg
					Chloromethane (Methyl chloride)	1.5 UJ	µg/Kg
					cis-1,2-Dichloroethene	0.94 UJ	µg/Kg
					cis-1,3-Dichloropropene	2.1 UJ	µg/Kg
					Cyclohexane	2.0 UJ	µg/Kg
					Dibromochloromethane	4.0 UJ	µg/Kg
					Dichlorodifluoromethane (CFC-12)	1.4 UJ	µg/Kg
					Ethylbenzene	1.5 UJ	µg/Kg
					Isopropyl benzene	1.2 UJ	µg/Kg
					Methyl acetate	4.9 UJ	µg/Kg
					Methyl cyclohexane	1.8 UJ	µg/Kg
					Methyl tert butyl ether (MTBE)	1.2 UJ	µg/Kg
					Methylene chloride	17 UJ	µg/Kg
					Styrene	1.7 UJ	µg/Kg
					Tetrachloroethene	1.1 UJ	µg/Kg
					Toluene	1.4 J	µg/Kg
					trans-1,2-Dichloroethene	0.67 UJ	µg/Kg
					trans-1,3-Dichloropropene	1.5 UJ	µg/Kg
					Trichloroethene	0.91 UJ	µg/Kg
					Trichlorofluoromethane (CFC-11)	1.6 UJ	µg/Kg
					Trifluorotrichloroethane (CFC-113)	1.8 UJ	µg/Kg
					Vinyl chloride	1.2 UJ	µg/Kg
					Xylenes (total)	2.3 UJ	µg/Kg
VOCs	S-38443-053018-JC-109	p-Bromofluorobenzene	53	61-132	1,1,1-Trichloroethane	1.1 UJ	µg/Kg
					1,1,2,2-Tetrachloroethane	1.9 UJ	µg/Kg
					1,1,2-Trichloroethane	1.5 UJ	µg/Kg
					1,1-Dichloroethane	0.90 UJ	µg/Kg
					1,1-Dichloroethene	1.2 UJ	µg/Kg
					1,2,4-Trichlorobenzene	0.75 UJ	µg/Kg
					1,2-Dibromo-3-chloropropane (DBCP)	4.7 UJ	µg/Kg
					1,2-Dibromoethane (Ethylene dibromide)	1.0 UJ	µg/Kg
					1,2-Dichlorobenzene	1.5 UJ	µg/Kg
					1,2-Dichloroethane	1.0 UJ	µg/Kg

Table 7

Qualified Sample Data Due to Outlying of Surrogate Recoveries
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

Parameter	Sample ID	Surrogate	Surrogate % Recovery	Control Limits % Recovery	Analyte	Qualified Result	Units
VOCs	S-38443-053018-JC-109				1,2-Dichloropropane	1.1 UJ	µg/Kg
					1,3-Dichlorobenzene	1.1 UJ	µg/Kg
					1,4-Dichlorobenzene	1.2 UJ	µg/Kg
					2-Butanone (Methyl ethyl ketone) (MEK)	5.3 J	µg/Kg
					2-Hexanone	5.3 UJ	µg/Kg
					4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	4.8 UJ	µg/Kg
					Acetone	35 J	µg/Kg
					Benzene	0.91 UJ	µg/Kg
					Bromodichloromethane	0.89 UJ	µg/Kg
					Bromoform	3.1 UJ	µg/Kg
					Bromomethane (Methyl bromide)	1.3 UJ	µg/Kg
					Carbon disulfide	1.5 UJ	µg/Kg
					Carbon tetrachloride	4.2 UJ	µg/Kg
					Chlorobenzene	1.2 UJ	µg/Kg
					Chloroethane	1.6 UJ	µg/Kg
					Chloroform (Trichloromethane)	1.0 UJ	µg/Kg
					Chloromethane (Methyl chloride)	1.4 UJ	µg/Kg
					cis-1,2-Dichloroethene	0.85 UJ	µg/Kg
					cis-1,3-Dichloropropene	1.9 UJ	µg/Kg
					Cyclohexane	1.8 UJ	µg/Kg
					Dibromochloromethane	3.6 UJ	µg/Kg
					Dichlorodifluoromethane (CFC-12)	1.2 UJ	µg/Kg
					Ethylbenzene	1.4 UJ	µg/Kg
					Isopropyl benzene	1.1 UJ	µg/Kg
					Methyl acetate	4.4 UJ	µg/Kg
					Methyl cyclohexane	1.6 UJ	µg/Kg
					Methyl tert butyl ether (MTBE)	1.1 UJ	µg/Kg
					Methylene chloride	16 UJ	µg/Kg
					Styrene	1.5 UJ	µg/Kg
					Tetrachloroethene	0.95 UJ	µg/Kg
					Toluene	1.0 UJ	µg/Kg
					trans-1,2-Dichloroethene	0.61 UJ	µg/Kg
					trans-1,3-Dichloropropene	1.3 UJ	µg/Kg
					Trichloroethene	0.83 UJ	µg/Kg
					Trichlorofluoromethane (CFC-11)	1.4 UJ	µg/Kg
					Trifluorotrichloroethane (CFC-113)	1.7 UJ	µg/Kg
					Vinyl chloride	1.1 UJ	µg/Kg

Table 7

Qualified Sample Data Due to Outlying of Surrogate Recoveries
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

Parameter	Sample ID	Surrogate	Surrogate % Recovery	Control Limits % Recovery	Analyte	Qualified Result	Units
VOCs	S-38443-053018-JC-109				Xylenes (total)	2.1 UJ	µg/Kg
							µg/Kg
VOCs	S-38443-053118-JC-118	p-Bromofluorobenzene	59	61-132	1,1,1-Trichloroethane	1.6 UJ	µg/Kg
					1,1,2,2-Tetrachloroethane	2.8 UJ	µg/Kg
					1,1,2-Trichloroethane	2.2 UJ	µg/Kg
					1,1-Dichloroethane	1.3 UJ	µg/Kg
					1,1-Dichloroethene	1.7 UJ	µg/Kg
					1,2,4-Trichlorobenzene	1.1 UJ	µg/Kg
					1,2-Dibromo-3-chloropropane (DBCP)	6.9 UJ	µg/Kg
					1,2-Dibromoethane (Ethylene dibromide)	1.5 UJ	µg/Kg
					1,2-Dichlorobenzene	2.1 UJ	µg/Kg
					1,2-Dichloroethane	1.5 UJ	µg/Kg
					1,2-Dichloropropane	1.6 UJ	µg/Kg
					1,3-Dichlorobenzene	1.6 UJ	µg/Kg
					1,4-Dichlorobenzene	1.7 UJ	µg/Kg
					2-Butanone (Methyl ethyl ketone) (MEK)	6.8 UJ	µg/Kg
					2-Hexanone	7.9 UJ	µg/Kg
					4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	7.1 UJ	µg/Kg
					Acetone	67 J	µg/Kg
					Benzene	1.3 UJ	µg/Kg
					Bromodichloromethane	1.3 UJ	µg/Kg
					Bromoform	4.6 UJ	µg/Kg
					Bromomethane (Methyl bromide)	1.9 UJ	µg/Kg
					Carbon disulfide	2.2 UJ	µg/Kg
					Carbon tetrachloride	6.3 UJ	µg/Kg
					Chlorobenzene	1.8 UJ	µg/Kg
					Chloroethane	2.3 UJ	µg/Kg
					Chloroform (Trichloromethane)	1.5 UJ	µg/Kg
					Chloromethane (Methyl chloride)	2.0 UJ	µg/Kg
					cis-1,2-Dichloroethene	1.3 UJ	µg/Kg
					cis-1,3-Dichloropropene	2.8 UJ	µg/Kg
					Cyclohexane	2.6 UJ	µg/Kg
					Dibromochloromethane	5.4 UJ	µg/Kg
					Dichlorodifluoromethane (CFC-12)	1.8 UJ	µg/Kg
					Ethylbenzene	2.0 UJ	µg/Kg
					Isopropyl benzene	1.6 UJ	µg/Kg
					Methyl acetate	6.5 UJ	µg/Kg

Table 7

Qualified Sample Data Due to Outlying of Surrogate Recoveries
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

Parameter	Sample ID	Surrogate	Surrogate % Recovery	Control Limits % Recovery	Analyte	Qualified Result	Units
VOCs	S-38443-053118-JC-118				Methyl cyclohexane	2.4 UJ	µg/Kg
					Methyl tert butyl ether (MTBE)	1.6 UJ	µg/Kg
					Methylene chloride	23 UJ	µg/Kg
					Styrene	2.2 UJ	µg/Kg
					Tetrachloroethene	1.4 UJ	µg/Kg
					Toluene	1.5 J	µg/Kg
					trans-1,2-Dichloroethene	0.90 UJ	µg/Kg
					trans-1,3-Dichloropropene	2.0 UJ	µg/Kg
					Trichloroethene	1.2 UJ	µg/Kg
					Trichlorofluoromethane (CFC-11)	2.1 UJ	µg/Kg
					Trifluorotrichloroethane (CFC-113)	2.5 UJ	µg/Kg
					Vinyl chloride	1.6 UJ	µg/Kg
					Xylenes (total)	3.1 UJ	µg/Kg
VOCs	S-38443-053118-JC-119	Dibromofluoromethane	19	43-131	1,1,1-Trichloroethane	2.5 UJ	µg/Kg
					1,1,2,2-Tetrachloroethane	4.4 UJ	µg/Kg
					1,1,2-Trichloroethane	3.5 UJ	µg/Kg
					1,1-Dichloroethane	2.1 UJ	µg/Kg
					1,1-Dichloroethene	2.8 UJ	µg/Kg
					1,2,4-Trichlorobenzene	1.8 UJ	µg/Kg
					1,2-Dibromo-3-chloropropane (DBCP)	11 UJ	µg/Kg
					1,2-Dibromoethane (Ethylene dibromide)	2.4 UJ	µg/Kg
					1,2-Dichlorobenzene	3.4 UJ	µg/Kg
					1,2-Dichloroethane	2.4 UJ	µg/Kg
					1,2-Dichloropropane	2.6 UJ	µg/Kg
					1,3-Dichlorobenzene	2.5 UJ	µg/Kg
					1,4-Dichlorobenzene	2.7 UJ	µg/Kg
					2-Butanone (Methyl ethyl ketone) (MEK)	38 J	µg/Kg
					2-Hexanone	13 UJ	µg/Kg
					4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	11 UJ	µg/Kg
					Acetone	250 J	µg/Kg
					Benzene	2.2 UJ	µg/Kg
					Bromodichloromethane	2.1 UJ	µg/Kg
					Bromoform	7.4 UJ	µg/Kg
					Bromomethane (Methyl bromide)	3.1 UJ	µg/Kg
					Carbon disulfide	3.6 UJ	µg/Kg
					Carbon tetrachloride	10 UJ	µg/Kg

Table 7

Qualified Sample Data Due to Outlying of Surrogate Recoveries
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

Parameter	Sample ID	Surrogate	Surrogate % Recovery	Control Limits % Recovery	Analyte	Qualified Result	Units
VOCs	S-38443-053118-JC-119				Chlorobenzene	2.8 UJ	µg/Kg
					Chloroethane	3.8 UJ	µg/Kg
					Chloroform (Trichloromethane)	2.4 UJ	µg/Kg
					Chloromethane (Methyl chloride)	3.2 UJ	µg/Kg
					cis-1,2-Dichloroethene	2.0 UJ	µg/Kg
					cis-1,3-Dichloropropene	4.4 UJ	µg/Kg
					Cyclohexane	4.8 J	µg/Kg
					Dibromochloromethane	8.6 UJ	µg/Kg
					Dichlorodifluoromethane (CFC-12)	2.9 UJ	µg/Kg
					Ethylbenzene	3.6 J	µg/Kg
					Isopropyl benzene	2.6 UJ	µg/Kg
					Methyl acetate	11 UJ	µg/Kg
					Methyl cyclohexane	6.7 J	µg/Kg
					Methyl tert butyl ether (MTBE)	2.5 UJ	µg/Kg
					Methylene chloride	37 UJ	µg/Kg
					Styrene	3.6 UJ	µg/Kg
					Tetrachloroethene	4.0 J	µg/Kg
					Toluene	8.9 J	µg/Kg
					trans-1,2-Dichloroethene	1.4 UJ	µg/Kg
					trans-1,3-Dichloropropene	3.2 UJ	µg/Kg
					Trichloroethene	2.0 UJ	µg/Kg
					Trichlorofluoromethane (CFC-11)	3.3 UJ	µg/Kg
					Trifluorotrichloroethane (CFC-113)	4.0 UJ	µg/Kg
					Vinyl chloride	2.6 UJ	µg/Kg
					Xylenes (total)	16 J	µg/Kg
VOCs	S-38443-010818-JC-031	p-Bromofluorobenzene	54	58-142	1,1,1-Trichloroethane	190 UJ	µg/Kg
					1,1,2,2-Tetrachloroethane	170 UJ	µg/Kg
					1,1,2-Trichloroethane	160 UJ	µg/Kg
					1,1-Dichloroethane	220 UJ	µg/Kg
					1,1-Dichloroethene	250 UJ	µg/Kg
					1,2,4-Trichlorobenzene	180 UJ	µg/Kg
					1,2-Dibromo-3-chloropropane (DBCP)	330 UJ	µg/Kg
					1,2-Dibromoethane (Ethylene dibromide)	160 UJ	µg/Kg
					1,2-Dichlorobenzene	130 UJ	µg/Kg
					1,2-Dichloroethane	210 UJ	µg/Kg
					1,2-Dichloropropane	210 UJ	µg/Kg

Table 7

Qualified Sample Data Due to Outlying of Surrogate Recoveries
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

Parameter	Sample ID	Surrogate	Surrogate % Recovery	Control Limits % Recovery	Analyte	Qualified Result	Units
VOCs	S-38443-010818-JC-031				1,3-Dichlorobenzene	260 UJ	µg/Kg
					1,4-Dichlorobenzene	190 UJ	µg/Kg
					2-Butanone (Methyl ethyl ketone) (MEK)	350 UJ	µg/Kg
					2-Hexanone	600 UJ	µg/Kg
					4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	280 UJ	µg/Kg
					Acetone	670 UJ	µg/Kg
					Benzene	170 UJ	µg/Kg
					Bromodichloromethane	130 UJ	µg/Kg
					Bromoform	160 UJ	µg/Kg
					Bromomethane (Methyl bromide)	190 UJ	µg/Kg
					Carbon disulfide	130 UJ	µg/Kg
					Carbon tetrachloride	190 UJ	µg/Kg
					Chlorobenzene	210 UJ	µg/Kg
					Chloroethane	190 UJ	µg/Kg
					Chloroform (Trichloromethane)	170 UJ	µg/Kg
					Chloromethane (Methyl chloride)	130 UJ	µg/Kg
					cis-1,2-Dichloroethene	2100 J	µg/Kg
					cis-1,3-Dichloropropene	160 UJ	µg/Kg
					Cyclohexane	210 UJ	µg/Kg
					Dibromochloromethane	240 UJ	µg/Kg
					Dichlorodifluoromethane (CFC-12)	150 UJ	µg/Kg
					Ethylbenzene	240 UJ	µg/Kg
					Isopropyl benzene	240 UJ	µg/Kg
					Methyl acetate	520 UJ	µg/Kg
					Methyl cyclohexane	260 UJ	µg/Kg
					Methyl tert butyl ether (MTBE)	180 UJ	µg/Kg
					Methylene chloride	450 UJ	µg/Kg
					Styrene	70 UJ	µg/Kg
					Tetrachloroethene	2500 J	µg/Kg
					Toluene	170 UJ	µg/Kg
					trans-1,2-Dichloroethene	240 UJ	µg/Kg
					trans-1,3-Dichloropropene	100 UJ	µg/Kg
					Trichloroethene	28000 J	µg/Kg
					Trichlorofluoromethane (CFC-11)	240 UJ	µg/Kg
					Trifluorotrichloroethane (CFC-113)	160 UJ	µg/Kg
					Vinyl chloride	120 UJ	µg/Kg
					Xylenes (total)	190 UJ	µg/Kg

Table 7

Qualified Sample Data Due to Outlying of Surrogate Recoveries
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

Parameter	Sample ID	Surrogate	Surrogate % Recovery	Control Limits % Recovery	Analyte	Qualified Result		Units
VOCs	S-38443-010818-JC-034	p-Bromofluorobenzene	44	58-142	1,1,1-Trichloroethane	150	UJ	µg/Kg
					1,1,2,2-Tetrachloroethane	130	UJ	µg/Kg
					1,1,2-Trichloroethane	130	UJ	µg/Kg
					1,1-Dichloroethane	170	UJ	µg/Kg
					1,1-Dichloroethene	200	UJ	µg/Kg
					1,2,4-Trichlorobenzene	140	UJ	µg/Kg
					1,2-Dibromo-3-chloropropane (DBCP)	260	UJ	µg/Kg
					1,2-Dibromoethane (Ethylene dibromide)	130	UJ	µg/Kg
					1,2-Dichlorobenzene	99	UJ	µg/Kg
					1,2-Dichloroethane	1200	J	µg/Kg
					1,2-Dichloropropane	1800	J	µg/Kg
					1,3-Dichlorobenzene	210	UJ	µg/Kg
					1,4-Dichlorobenzene	150	UJ	µg/Kg
					2-Butanone (Methyl ethyl ketone) (MEK)	270	UJ	µg/Kg
					2-Hexanone	470	UJ	µg/Kg
					4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	220	UJ	µg/Kg
					Acetone	530	UJ	µg/Kg
					Benzene	11000	J	µg/Kg
					Bromodichloromethane	99	UJ	µg/Kg
					Bromoform	130	UJ	µg/Kg
					Bromomethane (Methyl bromide)	150	UJ	µg/Kg
					Carbon disulfide	99	UJ	µg/Kg
					Carbon tetrachloride	150	UJ	µg/Kg
					Chlorobenzene	160	UJ	µg/Kg
					Chloroethane	150	UJ	µg/Kg
					Chloroform (Trichloromethane)	130	UJ	µg/Kg
					Chloromethane (Methyl chloride)	99	UJ	µg/Kg
					cis-1,2-Dichloroethene	35000	J	µg/Kg
					cis-1,3-Dichloropropene	130	UJ	µg/Kg
					Cyclohexane	250	J	µg/Kg
					Dibromochloromethane	190	UJ	µg/Kg
					Dichlorodifluoromethane (CFC-12)	120	UJ	µg/Kg
					Ethylbenzene	6300	J	µg/Kg
					Isopropyl benzene	270	J	µg/Kg
					Methyl acetate	410	UJ	µg/Kg
					Methyl cyclohexane	2200	J	µg/Kg

Table 7

Qualified Sample Data Due to Outlying of Surrogate Recoveries
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

Parameter	Sample ID	Surrogate	Surrogate % Recovery	Control Limits % Recovery	Analyte	Qualified Result	Units
VOCs	S-38443-010818-JC-034				Methyl tert butyl ether (MTBE)	140 UJ	µg/Kg
					Methylene chloride	360 UJ	µg/Kg
					Styrene	55 UJ	µg/Kg
					Tetrachloroethene	120 UJ	µg/Kg
					Toluene	15000 J	µg/Kg
					trans-1,2-Dichloroethene	300 J	µg/Kg
					trans-1,3-Dichloropropene	82 UJ	µg/Kg
					Trichloroethene	1500 J	µg/Kg
					Trichlorofluoromethane (CFC-11)	190 UJ	µg/Kg
					Trifluorotrichloroethane (CFC-113)	130 UJ	µg/Kg
					Vinyl chloride	1100 J	µg/Kg
					Xylenes (total)	7400 J	µg/Kg
SVOCs	S-38443-121917-JC-013	Terphenyl-d14	7	41-120	bis(2-Ethylhexyl)phthalate (DEHP)	68 J	µg/Kg
					Diethyl phthalate	R	µg/Kg
					2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	R	µg/Kg
					2,4-Dinitrotoluene	R	µg/Kg
					2,6-Dinitrotoluene	R	µg/Kg
					2-Chloronaphthalene	R	µg/Kg
					2-Methylnaphthalene	R	µg/Kg
					2-Nitroaniline	R	µg/Kg
					3,3'-Dichlorobenzidine	R	µg/Kg
					3-Nitroaniline	R	µg/Kg
					4-Bromophenyl phenyl ether	R	µg/Kg
					4-Chloroaniline	R	µg/Kg
					4-Chlorophenyl phenyl ether	R	µg/Kg
					4-Nitroaniline	R	µg/Kg
					Acenaphthene	R	µg/Kg
					Acenaphthylene	R	µg/Kg
					Acetophenone	R	µg/Kg
					Anthracene	R	µg/Kg
					Atrazine	R	µg/Kg
					Benzaldehyde	R	µg/Kg
					Benzo(a)anthracene	R	µg/Kg
					Benzo(a)pyrene	R	µg/Kg
					Benzo(b)fluoranthene	R	µg/Kg
					Benzo(g,h,i)perylene	R	µg/Kg

Table 7

Qualified Sample Data Due to Outlying of Surrogate Recoveries
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

Parameter	Sample ID	Surrogate	Surrogate % Recovery	Control Limits % Recovery	Analyte	Qualified Result	Units
SVOCs	S-38443-121917-JC-013				Benzo(k)fluoranthene	R	µg/Kg
					Biphenyl (1,1-Biphenyl)	R	µg/Kg
					bis(2-Chloroethoxy)methane	R	µg/Kg
					bis(2-Chloroethyl)ether	R	µg/Kg
					Butyl benzylphthalate (BBP)	R	µg/Kg
					Caprolactam	R	µg/Kg
					Carbazole	R	µg/Kg
					Chrysene	R	µg/Kg
					Di-n-butylphthalate (DBP)	R	µg/Kg
					Di-n-octyl phthalate (DnOP)	R	µg/Kg
					Dibenz(a,h)anthracene	R	µg/Kg
					Dibenzofuran	R	µg/Kg
					Dimethyl phthalate	R	µg/Kg
					Fluoranthene	R	µg/Kg
					Fluorene	R	µg/Kg
					Hexachlorobenzene	R	µg/Kg
					Hexachlorobutadiene	R	µg/Kg
					Hexachlorocyclopentadiene	R	µg/Kg
					Hexachloroethane	R	µg/Kg
					Indeno(1,2,3-cd)pyrene	R	µg/Kg
					Isophorone	R	µg/Kg
					N-Nitrosodi-n-propylamine	R	µg/Kg
					N-Nitrosodiphenylamine	R	µg/Kg
					Naphthalene	R	µg/Kg
					Nitrobenzene	R	µg/Kg
					Phenanthrene	R	µg/Kg
					Pyrene	R	µg/Kg
PCBs	S-38443-122117-JC-022	Decachlorobiphenyl	179	10-132	Aroclor-1254 (PCB-1254)	150 J	µg/Kg
PCBs	S-38443-122117-JC-023	Decachlorobiphenyl	223	10-132	Aroclor-1254 (PCB-1254)	71 J	µg/Kg

Table 7

Qualified Sample Data Due to Outlying of Surrogate Recoveries
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

Parameter	Sample ID	Surrogate	Surrogate % Recovery	Control Limits % Recovery	Analyte	Qualified Result	Units
PCBs	S-38443-010418-JC-027	Decachlorobiphenyl	153	10-132	Aroclor-1254 (PCB-1254)	450 J	µg/Kg
PCBs	S-38443-012318-JC-061	Decachlorobiphenyl	133	10-132	Aroclor-1242 (PCB-1242)	230 J	µg/Kg
Pesticides	S-38443-012318-JC-061	Tetrachloro-m-xylene	128	30-120	4,4'-DDT	5.1 J	µg/Kg

Notes:

J - Estimated concentration
PCBs - Polychlorinated Biphenyls
R - Rejected
SVOCs - Semi-volatile Organic Compounds
UJ - Not detected; associated reporting limit is estimated
VOCs - Volatile Organic Compounds

Table 8

Qualified Sample Results Due to Outlying Internal Standard (IS) Recoveries
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

Parameter	Sample ID	Internal Standard	IS Area Count (percent)	Control Limits (percent)	Analytes	Qualified Results	Units
VOCs	S-38443-120717-JC-002	Fluorobenzene	40	50-200	1,1,1-Trichloroethane	R	µg/Kg
		Chlorobenzene-d5	40		1,1,2,2-Tetrachloroethane	R	µg/Kg
		1,4-Dichlorobenzene-d4	37		1,1,2-Trichloroethane	R	µg/Kg
					1,1-Dichloroethane	R	µg/Kg
					1,1-Dichloroethene	R	µg/Kg
					1,2,4-Trichlorobenzene	R	µg/Kg
					1,2-Dibromo-3-chloropropane (DBCP)	R	µg/Kg
					1,2-Dibromoethane (Ethylene dibromide)	R	µg/Kg
					1,2-Dichlorobenzene	R	µg/Kg
					1,2-Dichloroethane	R	µg/Kg
					1,2-Dichloropropane	R	µg/Kg
					1,3-Dichlorobenzene	R	µg/Kg
					1,4-Dichlorobenzene	R	µg/Kg
					2-Butanone (Methyl ethyl ketone) (MEK)	R	µg/Kg
					2-Hexanone	R	µg/Kg
					4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	R	µg/Kg
					Acetone	R	µg/Kg
					Benzene	R	µg/Kg
					Bromodichloromethane	R	µg/Kg
					Bromoform	R	µg/Kg
					Bromomethane (Methyl bromide)	R	µg/Kg
					Carbon disulfide	R	µg/Kg
					Carbon tetrachloride	R	µg/Kg
					Chlorobenzene	R	µg/Kg
					Chloroethane	R	µg/Kg
					Chloroform (Trichloromethane)	R	µg/Kg
					Chloromethane (Methyl chloride)	R	µg/Kg
					cis-1,2-Dichloroethene	R	µg/Kg
					cis-1,3-Dichloropropene	R	µg/Kg
					Cyclohexane	R	µg/Kg
					Dibromochloromethane	R	µg/Kg
					Dichlorodifluoromethane (CFC-12)	R	µg/Kg
					Ethylbenzene	R	µg/Kg
					Isopropyl benzene	R	µg/Kg
					Methyl acetate	R	µg/Kg
					Methyl cyclohexane	R	µg/Kg
					Methyl tert butyl ether (MTBE)	R	µg/Kg
					Methylene chloride	R	µg/Kg
					Styrene	R	µg/Kg
					Tetrachloroethene	R	µg/Kg
					Toluene	R	µg/Kg

Table 8

Qualified Sample Results Due to Outlying Internal Standard (IS) Recoveries
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

Parameter	Sample ID	Internal Standard	IS Area Count (percent)	Control Limits (percent)	Analytes	Qualified Results	Units
VOCs	S-38443-120717-JC-002				trans-1,2-Dichloroethene	R	µg/Kg
					trans-1,3-Dichloropropene	R	µg/Kg
					Trichloroethene	R	µg/Kg
					Trichlorofluoromethane (CFC-11)	R	µg/Kg
					Trifluorotrichloroethane (CFC-113)	R	µg/Kg
					Vinyl chloride	R	µg/Kg
					Xylenes (total)	R	µg/Kg
VOCs	S-38443-121817-JC-009	1,4-Dichlorobenzene-d4	38	50-200	1,1,2,2-Tetrachloroethane	R	µg/Kg
					1,2,4-Trichlorobenzene	R	µg/Kg
					1,2-Dibromo-3-chloropropane (DBCP)	R	µg/Kg
					1,2-Dichlorobenzene	R	µg/Kg
					1,3-Dichlorobenzene	R	µg/Kg
					1,4-Dichlorobenzene	R	µg/Kg
VOCs	S-38443-121917-JC-013	Chlorobenzene-d5	36	50-200	Ethylbenzene	0.95 J	µg/Kg
		1,4-Dichlorobenzene-d4	5		Toluene	24 J	µg/Kg
					4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	9.9 J	µg/Kg
					1,1,2,2-Tetrachloroethane	R	µg/Kg
					1,1,2-Trichloroethane	R	µg/Kg
					1,2,4-Trichlorobenzene	R	µg/Kg
					1,2-Dibromo-3-chloropropane (DBCP)	R	µg/Kg
					1,2-Dibromoethane (Ethylene dibromide)	R	µg/Kg
					1,2-Dichlorobenzene	R	µg/Kg
					1,3-Dichlorobenzene	R	µg/Kg
					1,4-Dichlorobenzene	R	µg/Kg
					2-Butanone (Methyl ethyl ketone) (MEK)	R	µg/Kg
					2-Hexanone	R	µg/Kg
					Bromoform	R	µg/Kg
					Chlorobenzene	R	µg/Kg
					Dibromochloromethane	R	µg/Kg
					Isopropyl benzene	R	µg/Kg
					Styrene	R	µg/Kg
					Tetrachloroethene	R	µg/Kg
					trans-1,3-Dichloropropene	R	µg/Kg
					Xylenes (total)	R	µg/Kg

Table 8

Qualified Sample Results Due to Outlying Internal Standard (IS) Recoveries
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

Parameter	Sample ID	Internal Standard	IS Area Count (percent)	Control Limits (percent)	Analytes	Qualified Results	Units
VOCs	S-38443-121917-JC-014	1,4-Dichlorobenzene-d4	45	50-200	1,1,2,2-Tetrachloroethane	0.28 UJ	µg/Kg
					1,2,4-Trichlorobenzene	0.26 UJ	µg/Kg
					1,2-Dibromo-3-chloropropane (DBCP)	0.73 UJ	µg/Kg
					1,2-Dichlorobenzene	0.24 UJ	µg/Kg
					1,3-Dichlorobenzene	0.31 UJ	µg/Kg
					1,4-Dichlorobenzene	0.38 UJ	µg/Kg
VOCs	S-38443-122017-JC-018	1,4-Dichlorobenzene-d4	42	50-200	1,1,2,2-Tetrachloroethane	R	µg/Kg
					1,2,4-Trichlorobenzene	R	µg/Kg
					1,2-Dibromo-3-chloropropane (DBCP)	R	µg/Kg
					1,2-Dichlorobenzene	R	µg/Kg
					1,3-Dichlorobenzene	R	µg/Kg
					1,4-Dichlorobenzene	R	µg/Kg
VOCs	S-38443-051718-JC-076	Chlorobenzene-d5	39	50-200	1,1,2,2-Tetrachloroethane	R	µg/Kg
		1,4-Dichlorobenzene-d4	12	50-200	1,1,2-Trichloroethane	R	µg/Kg
					1,2,4-Trichlorobenzene	R	µg/Kg
					1,2-Dibromo-3-chloropropane (DBCP)	R	µg/Kg
					1,2-Dibromoethane (Ethylene dibromide)	R	µg/Kg
					1,2-Dichlorobenzene	R	µg/Kg
					1,3-Dichlorobenzene	R	µg/Kg
					1,4-Dichlorobenzene	R	µg/Kg
					2-Hexanone	R	µg/Kg
					Bromoform	R	µg/Kg
					Chlorobenzene	R	µg/Kg
					Dibromochloromethane	R	µg/Kg
					Ethylbenzene	R	µg/Kg
					Isopropyl benzene	R	µg/Kg
					Styrene	R	µg/Kg
					Tetrachloroethene	R	µg/Kg
					Toluene	R	µg/Kg
					trans-1,3-Dichloropropene	R	µg/Kg
					Xylenes (total)	R	µg/Kg
VOCs	S-38443-051718-JC-080	Chlorobenzene-d5	49	50-200	1,1,2,2-Tetrachloroethane	R	µg/Kg
		1,4-Dichlorobenzene-d4	33	50-200	1,2,4-Trichlorobenzene	R	µg/Kg
					1,2-Dibromo-3-chloropropane (DBCP)	R	µg/Kg
					1,2-Dichlorobenzene	R	µg/Kg
					1,3-Dichlorobenzene	R	µg/Kg
					1,4-Dichlorobenzene	R	µg/Kg
					1,1,2-Trichloroethane	0.63 UJ	µg/Kg

Table 8

Qualified Sample Results Due to Outlying Internal Standard (IS) Recoveries
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

Parameter	Sample ID	Internal Standard	IS Area Count (percent)	Control Limits (percent)	Analytes	Qualified Results	Units
VOCs	S-38443-051718-JC-080				1,2-Dibromoethane (Ethylene dibromide)	0.57 UJ	µg/Kg
					2-Hexanone	0.94 UJ	µg/Kg
					Bromoform	0.65 UJ	µg/Kg
					Chlorobenzene	0.53 UJ	µg/Kg
					Dibromochloromethane	0.49 UJ	µg/Kg
					Ethylbenzene	0.44 UJ	µg/Kg
					Isopropyl benzene	0.32 UJ	µg/Kg
					Styrene	0.44 UJ	µg/Kg
					Tetrachloroethene	0.60 UJ	µg/Kg
					Toluene	0.55 UJ	µg/Kg
					trans-1,3-Dichloropropene	0.34 UJ	µg/Kg
					Xylenes (total)	0.65 UJ	µg/Kg
VOCs	S-38443-052918-JC-088	Chlorobenzene-d5	28	50-200	1,1,2,2-Tetrachloroethane	R	µg/Kg
		1,4-Dichlorobenzene-d4	7	50-200	1,1,2-Trichloroethane	R	µg/Kg
					1,2,4-Trichlorobenzene	R	µg/Kg
					1,2-Dibromo-3-chloropropane (DBCP)	R	µg/Kg
					1,2-Dibromoethane (Ethylene dibromide)	R	µg/Kg
					1,2-Dichlorobenzene	R	µg/Kg
					1,3-Dichlorobenzene	R	µg/Kg
					1,4-Dichlorobenzene	R	µg/Kg
					2-Hexanone	R	µg/Kg
					Bromoform	R	µg/Kg
					Chlorobenzene	R	µg/Kg
					Dibromochloromethane	R	µg/Kg
					Ethylbenzene	R	µg/Kg
					Isopropyl benzene	R	µg/Kg
					Styrene	R	µg/Kg
					Tetrachloroethene	R	µg/Kg
					Toluene	R	µg/Kg
					trans-1,3-Dichloropropene	R	µg/Kg
					Xylenes (total)	R	µg/Kg

Table 8

Qualified Sample Results Due to Outlying Internal Standard (IS) Recoveries
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

Parameter	Sample ID	Internal Standard	IS Area Count (percent)	Control Limits (percent)	Analytes	Qualified Results	Units
VOCs	S-38443-052918-JC-099	1,4-Dichlorobenzene-d4	31	50-200	1,1,2,2-Tetrachloroethane	R	µg/Kg
					1,2,4-Trichlorobenzene	R	µg/Kg
					1,2-Dibromo-3-chloropropane (DBCP)	R	µg/Kg
					1,2-Dichlorobenzene	R	µg/Kg
					1,3-Dichlorobenzene	R	µg/Kg
					1,4-Dichlorobenzene	R	µg/Kg
VOCs	S-38443-053018-JC-100	1,4-Dichlorobenzene-d4	28	50-200	1,1,2,2-Tetrachloroethane	R	µg/Kg
					1,2,4-Trichlorobenzene	R	µg/Kg
					1,2-Dibromo-3-chloropropane (DBCP)	R	µg/Kg
					1,2-Dichlorobenzene	R	µg/Kg
					1,3-Dichlorobenzene	R	µg/Kg
					1,4-Dichlorobenzene	R	µg/Kg
VOCs	S-38443-053018-JC-102	1,4-Dichlorobenzene-d4	39	50-200	1,1,2,2-Tetrachloroethane	R	µg/Kg
					1,2,4-Trichlorobenzene	R	µg/Kg
					1,2-Dibromo-3-chloropropane (DBCP)	R	µg/Kg
					1,2-Dichlorobenzene	R	µg/Kg
					1,3-Dichlorobenzene	R	µg/Kg
					1,4-Dichlorobenzene	R	µg/Kg
VOCs	S-38443-053018-JC-104	1,4-Dichlorobenzene-d4	23	50-200	1,1,2,2-Tetrachloroethane	R	µg/Kg
					1,2,4-Trichlorobenzene	R	µg/Kg
					1,2-Dibromo-3-chloropropane (DBCP)	R	µg/Kg
					1,2-Dichlorobenzene	R	µg/Kg
					1,3-Dichlorobenzene	R	µg/Kg
					1,4-Dichlorobenzene	R	µg/Kg

Table 8

Qualified Sample Results Due to Outlying Internal Standard (IS) Recoveries
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

Parameter	Sample ID	Internal Standard	IS Area Count (percent)	Control Limits (percent)	Analytes	Qualified Results	Units
	S-38443-053018-JC-109	1,4-Dichlorobenzene-d4	21	50-200	1,1,2,2-Tetrachloroethane	R	µg/Kg
					1,2,4-Trichlorobenzene	R	µg/Kg
					1,2-Dibromo-3-chloropropane (DBCP)	R	µg/Kg
					1,2-Dichlorobenzene	R	µg/Kg
					1,3-Dichlorobenzene	R	µg/Kg
					1,4-Dichlorobenzene	R	µg/Kg
VOCs	S-38443-053018-JC-111	1,4-Dichlorobenzene-d4	21	50-200	1,1,2,2-Tetrachloroethane	R	µg/Kg
					1,2,4-Trichlorobenzene	R	µg/Kg
					1,2-Dibromo-3-chloropropane (DBCP)	R	µg/Kg
					1,2-Dichlorobenzene	R	µg/Kg
					1,3-Dichlorobenzene	R	µg/Kg
					1,4-Dichlorobenzene	R	µg/Kg
VOCs	S-38443-053118-JC-118	1,4-Dichlorobenzene-d4	26	50-200	1,1,2,2-Tetrachloroethane	R	µg/Kg
					1,2,4-Trichlorobenzene	R	µg/Kg
					1,2-Dibromo-3-chloropropane (DBCP)	R	µg/Kg
					1,2-Dichlorobenzene	R	µg/Kg
					1,3-Dichlorobenzene	R	µg/Kg
					1,4-Dichlorobenzene	R	µg/Kg
VOCs	S-38443-010818-JC-029	1,4-Dichlorobenzene-d4	42	50-200	1,1,2,2-Tetrachloroethane	R	µg/Kg
					1,2,4-Trichlorobenzene	R	µg/Kg
					1,2-Dibromo-3-chloropropane (DBCP)	R	µg/Kg
					1,2-Dichlorobenzene	R	µg/Kg
					1,3-Dichlorobenzene	R	µg/Kg
					1,4-Dichlorobenzene	R	µg/Kg
Dioxin/Furan	S-38443-010818-JC-034	13C-1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	34	40-135	1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	17 J	pg/g
Dioxin/Furan	S-38443-011718-JC-047	13C-1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	39	40-135	1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	3.0 J	pg/g
		13C-1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	38	40-135	1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	11 J	pg/g
		13C-1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	35	40-135	1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	7.9 J	pg/g
		13C-1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	37	40-135	1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	1.1 UJ	pg/g
		13C-2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	38	40-135	2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	6.0 J	pg/g

Table 8

Qualified Sample Results Due to Outlying Internal Standard (IS) Recoveries
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

Parameter	Sample ID	Internal Standard	IS Area Count (percent)	Control Limits (percent)	Analytes	Qualified Results	Units
Dioxin/Furan	S-38443-012218-JC-057	13C-1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	20	40-135	1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	1.3 J	pg/g
		13C-1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	25	40-135	1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	4.9 J	pg/g
		13C-1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	25	40-135	1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	1.4 J	pg/g
		13C-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	29	40-135	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	0.23 UJ	pg/g
		13C-1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	27	40-135	1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	0.12 UJ	pg/g
		13C-1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	30	40-135	1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	0.13 UJ	pg/g
		13C-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	35	40-135	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	0.27 UJ	pg/g
		13C-1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	30	40-135	1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	0.51 J	pg/g
		13C-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	35	40-135	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	0.28 UJ	pg/g
		13C-1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	30	40-135	1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	0.17 UJ	pg/g
		13C-1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	30	40-135	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	0.26 UJ	pg/g
		13C-1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	36	40-135	1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	0.22 UJ	pg/g
		13C-2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	32	40-135	2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	0.13 UJ	pg/g
		13C2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	38	40-135	2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	0.18 UJ	pg/g
Dioxin/Furan	S-38443-012318-JC-061	2,3,7,8-Tetrachlorodibenzofuran (TCDF)	32	40-135	2,3,7,8-Tetrachlorodibenzofuran (TCDF)	0.30 UJ	pg/g
		13C-1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	35	40-135	1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	1.0 J	pg/g
		13C-1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	38	40-135	1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	0.099 UJ	pg/g
		13C-1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	39	40-135	1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	0.074 UJ	pg/g
Dioxin/Furan	S-38443-012318-JC-062	13C-1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	13	40-135	1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	3.5 J	pg/g
		13C-1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	18	40-135	1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	81 J	pg/g
		13C-1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	18	40-135	1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	3.4 J	pg/g
		13C-1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	21	40-135	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	7.2 J	pg/g
		13C-1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	19	40-135	1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	0.30 UJ	pg/g
		13C-1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	23	40-135	1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	0.24 UJ	pg/g
		13C-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	26	40-135	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	0.019 UJ	pg/g
		13C-1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	24	40-135	1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	0.22 UJ	pg/g
		13C-1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	26	40-135	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	0.021 UJ	pg/g
		13C-1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	22	40-135	1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	0.32 UJ	pg/g
		13C-1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	22	40-135	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	0.019 UJ	pg/g
		13C-1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	32	40-135	1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	0.16 UJ	pg/g
		13C-1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	34	40-135	1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	0.46 UJ	pg/g
		13C-2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	25	40-135	2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	0.22 UJ	pg/g
		13C-2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	34	40-135	2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	0.13 UJ	pg/g

Table 8

Qualified Sample Results Due to Outlying Internal Standard (IS) Recoveries
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

Parameter	Sample ID	Internal Standard	IS Area Count (percent)	Control Limits (percent)	Analytes	Qualified Results	Units
Dioxin/Furan	S-38443-121917-JC-014	13C-1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	30	40-135	1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	4.0 J	pg/g
		13C-1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	26	40-135	1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	79 J	pg/g
		13C-1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	31	40-135	1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	1.7 J	pg/g
		13C-1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	33	40-135	1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	0.21 UJ	pg/g
		13C-1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	32	40-135	1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	0.22 UJ	pg/g
		13C-1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	38	40-135	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	0.097 UJ	pg/g
		13C-1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	32	40-135	1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	0.20 UJ	pg/g
		13C-1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	38	40-135	1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	0.24 UJ	pg/g
		13C-2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	38	40-135	2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	0.20 UJ	pg/g

Notes:

J - Estimated concentration
R - Rejected
RPD - Relative Percent Difference
UJ - Not detected; associated reporting limit is estimated
VOCs - Volatile Organic Compounds

Table 9

Qualified Sample Results Due to Outlying Laboratory Control Sample (LCS) Results
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

Parameter	Analyte	LCS Date (mm/dd/yyyy)	LCS % Recovery	Control Limits % Recovery	Associated Sample ID	Qualified Result	Units
VOCs	Acetone	12/26/2017	136	24-125	S-38443-121917-JC-013	78 J	µg/Kg
					S-38443-121917-JC-014	55 J	µg/Kg
VOCs	1,1,2,2-Tetrachloroethane	12/29/2017	77	78-120	S-38443-122017-JC-020	47 UJ	µg/Kg
	1,1-Dichloroethene		52	58-130		70 UJ	µg/Kg
	1,2-Dibromoethane (Ethylene dibromide)		77	80-120		45 UJ	µg/Kg
	cis-1,2-Dichloroethene		75	78-120		68 UJ	µg/Kg
	cis-1,3-Dichloropropene		62	66-126		45 UJ	µg/Kg
	trans-1,3-Dichloropropene		53	55-121		29 UJ	µg/Kg
	Trifluorotrichloroethane (CFC-113)		59	64-125		45 UJ	µg/Kg
VOCs	1,1-Dichloroethene	12/30/2017	54	58-130	S-38443-122117-JC-022	46 UJ	µg/Kg
					S-38443-122117-JC-023	48 UJ	µg/Kg
VOCs	Cyclohexane	12/30/2017	64	66-129	S-38443-122117-JC-022	38 UJ	µg/Kg
					S-38443-122117-JC-023	40 UJ	µg/Kg
VOCs	Methyl cyclohexane	12/30/2017	67	71-126	S-38443-122117-JC-022	47 UJ	µg/Kg
					S-38443-122117-JC-023	49 UJ	µg/Kg
VOCs	Trifluorotrichloroethane (CFC-113)	12/30/2017	61	64-125	S-38443-122117-JC-022	29 UJ	µg/Kg
					S-38443-122117-JC-023	31 UJ	µg/Kg
VOCs	Trifluorotrichloroethane (CFC-113)	01/18/2018	61	64-125	S-38443-011618-JC-044	39 UJ	µg/Kg
					S-38443-011618-JC-045	28 UJ	µg/Kg

Table 9

Qualified Sample Results Due to Outlying Laboratory Control Sample (LCS) Results
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

Parameter	Analyte	LCS Date (mm/dd/yyyy)	LCS % Recovery	Control Limits % Recovery	Associated Sample ID	Qualified Result	Units
VOCs	Acetone	06/02/2018	132	24-125	S-38443-053018-JC-101	19 J	µg/Kg
					S-38443-053018-JC-103	31 J	µg/Kg
					S-38443-053018-JC-106	110 J	µg/Kg
					S-38443-053018-JC-109	35 J	µg/Kg
VOCs	Acetone	01/10/2018	129	24-125	S-38443-010818-JC-029	34 J	µg/Kg
VOCs	2-Butanone (Methyl ethyl ketone) (MEK)	01/25/2018	133	51-120	S-38443-012318-JC-061	16 J	µg/Kg
					S-38443-012318-JC-062	28 J	µg/Kg
VOCs	Acetone	01/25/2018	130	24-125	S-38443-012318-JC-061	71 J	µg/Kg
					S-38443-012318-JC-062	120 J	µg/Kg
SVOCs	Benzaldehyde	05/15/2018	12	48-120	S-38443-050818-JC-070	15 J	µg/Kg
					S-38443-050818-JC-071	14 UJ	µg/Kg
SVOCs	Benzaldehyde	05/25/2018	16	48-120	S-38443-051718-JC-081	120 J	µg/Kg
					S-38443-051718-JC-076	39 J	µg/Kg
					S-38443-051718-JC-080	57 J	µg/Kg
					S-38443-051718-JC-082	43 UJ	µg/Kg
					S-38443-051718-JC-079	35 UJ	µg/Kg
					S-38443-051718-JC-078	32 UJ	µg/Kg
					S-38443-051718-JC-077	25 UJ	µg/Kg
					S-38443-051718-JC-083	24 UJ	µg/Kg
					S-38443-051718-JC-075	98 UJ	µg/Kg

Table 9

Qualified Sample Results Due to Outlying Laboratory Control Sample (LCS) Results
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

Parameter	Analyte	LCS Date (mm/dd/yyyy)	LCS % Recovery	Control Limits % Recovery	Associated Sample ID	Qualified Result	Units
Pesticides	4,4'-DDE	01/09/2018	128	46-120	S-38443-122017-JC-020	8.1 J	µg/Kg
					S-38443-122117-JC-022	3.8 J	µg/Kg
Metals	Mercury	12/22/2017	130	80-120	S-38443-121917-JC-013	0.090 J	mg/kg
					S-38443-121917-JC-015	0.037 J	mg/kg
					S-38443-122017-JC-016	0.028 J	mg/kg
					S-38443-122017-JC-018	0.28 J	mg/kg

Notes:

J - Estimated concentration
LCS - Laboratory Control Sample
SVOCs - Semi-volatile Organic Compounds
UJ - Not detected; associated reporting limit is estimated
VOCs - Volatile Organic Compounds

Table 10

Qualified Sample Results Due to Outlying MS/MSD Results
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

Parameter	Sample ID	Analyte	MS % Recovery	MSD % Recovery	RPD (percent)	Control Limits % Recovery	Control Limits RPD	Qualified Result	Units
VOCs	S-38443-011118-JC-039	Ethylbenzene	63	36	41	18-126	40	8.6 J	µg/Kg
		Isopropyl benzene	72	43	46	10-128	40	1.4 J	µg/Kg
SVOCs	S-38443-120717-JC-004	Hexachlorocyclopentadiene	0	0	NC	10-120	40	R	µg/Kg
		Phenanthrene	105	207	46	28-120	40	460.0 J	µg/Kg
SVOCs	S-38443-120817-JC-006	Hexachlorocyclopentadiene	0	0	NC	10-120	40	R	µg/Kg
SVOCs	S-38443-011118-JC-039	2,4,6-Trichlorophenol	19	18	45	19-120	36	13 UJ	µg/Kg
		2,4-Dimethylphenol	19	22	17	28-120	35	30 UJ	µg/Kg
		2-Methylphenol	13	21	45	31-120	36	16 UJ	µg/Kg
		3&4-Methylphenol	30	36	19	33-120	29	30 UJ	µg/Kg
		3,3'-Dichlorobenzidine	4	4	18	10-120	40	R	µg/Kg
		Anthracene	58	80	33	42-120	32	6.9 J	µg/Kg
		Benzo(a)anthracene	46	89	61	35-120	40	30 J	µg/Kg
		Benzo(a)pyrene	31	68	71	33-120	40	25 J	µg/Kg
		Benzo(b)fluoranthene	38	85	71	26-120	40	48 J	µg/Kg
		Benzo(g,h,i)perylene	20	50	80	16-120	40	24 J	µg/Kg
		Benzo(k)fluoranthene	36	72	64	33-120	40	16 J	µg/Kg
		Chrysene	47	93	62	33-120	40	42 J	µg/Kg
		Dibenz(a,h)anthracene	27	41	40	30-120	40	0.98 UJ	µg/Kg
		Fluoranthene	53	137	81	26-121	40	86 J	µg/Kg
		Hexachlorocyclopentadiene	5	11	76	10-120	40	R	µg/Kg
		Indeno(1,2,3-cd)pyrene	23	47	65	24-120	40	15 J	µg/Kg
		N-Nitrosodiphenylamine	21	28	28	29-120	30	31 UJ	µg/Kg
		Pentachlorophenol	21	6	108	10-120	40	R	µg/Kg
		Phenanthrene	58	123	65	28-120	40	90 J	µg/Kg
		Pyrene	56	135	76	28-120	40	73 J	µg/Kg
SVOCs	S-38443-012218-JC-059	Hexachlorocyclopentadiene	2	7	113	10-120	40	R	µg/Kg
SVOCs	S-38443-050818-JC-071	Benzaldehyde	17	15	14	28-120	40	14 UJ	µg/Kg
		Hexachlorocyclopentadiene	5	6	8	10-120	40	R	µg/Kg
SVOCs	S-38443-052918-JC-095	2,4-Dinitrophenol	0	0	NC	10-120	40	R	µg/Kg
		2-Methylnaphthalene	153	73	59	31-120	33	160 J	µg/Kg
		4,6-Dinitro-2-methylphenol	0	0	NC	10-120	40	R	µg/Kg
		Hexachlorocyclopentadiene	0	0	NC	10-120	40	R	µg/Kg
		Naphthalene	131	71	52	29-120	34	110 J	µg/Kg

Table 10

Qualified Sample Results Due to Outlying MS/MSD Results
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

Parameter	Sample ID	Analyte	MS % Recovery	MSD % Recovery	RPD (percent)	Control Limits % Recovery	Control Limits RPD	Qualified Result	Units
SVOCs	S-38443-053118-JC-119	2,4-Dinitrophenol	33	0	NC	10-120	40	R	µg/Kg
		4-Nitrophenol	0	0	NC	32-120	31	R	µg/Kg
Pesticides	S-38443-012318-JC-062	4,4'-DDD	40	17	84	27-120	40	4.6 UJ	µg/Kg
		alpha-BHC	50	29	55	30-120	40	2.2 UJ	µg/Kg
		gamma-BHC (lindane)	37	20	60	27-120	40	4.0 UJ	µg/Kg
Metals	S-38443-010318-JC-025	Aluminum	216	199	4	75 - 125	20	2500 J	mg/kg
	S-38443-010318-JC-026							9000 J	mg/kg
Metals	S-38443-051718-JC-075	Aluminum	230	174	10	75 - 125	20	3500 J	mg/kg
	S-38443-051718-JC-083							1500 J	mg/kg
	S-38443-051718-JC-076							4800 J	mg/kg
	S-38443-051718-JC-077							2500 J	mg/kg
	S-38443-051718-JC-078							7500 J	mg/kg
	S-38443-051718-JC-079							9200 J	mg/kg
	S-38443-051718-JC-080							13000 J	mg/kg
	S-38443-051718-JC-081							15000 J	mg/kg
	S-38443-051718-JC-082							2400 J	mg/kg
Metals	S-38443-122017-JC-020	Antimony	67	58	9	75 - 125	20	4.1 J	mg/kg
Metals	S-38443-010318-JC-025	Antimony	48	52	8	75 - 125	20	0.55 J	mg/kg
	S-38443-010318-JC-026							0.48 J	mg/kg
Metals	S-38443-120717-JC-002	Antimony	38	37	2	75 - 125	20	0.35 J	mg/kg
	S-38443-120717-JC-003							2.4 J	mg/kg
	S-38443-120717-JC-004							0.34 J	mg/kg
Metals	S-38443-010818-JC-029	Antimony	57	41	15	75 - 125	20	6.8 J	mg/kg
	S-38443-010818-JC-030							5.3 J	mg/kg
	S-38443-010818-JC-031							7.2 J	mg/kg
	S-38443-010818-JC-032							0.41 J	mg/kg
	S-38443-010818-JC-033							0.42 J	mg/kg
	S-38443-010818-JC-034							2.9 J	mg/kg
Metals	S-38443-011118-JC-038	Antimony	51	50	1	75 - 125	20	2.8 J	mg/kg
	S-38443-011118-JC-039							1.1 J	mg/kg
	S-38443-011118-JC-040							0.60 J	mg/kg
	S-38443-011118-JC-041							0.23 J	mg/kg
	S-38443-011118-JC-042							2.1 J	mg/kg

Table 10

Qualified Sample Results Due to Outlying MS/MSD Results
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

Parameter	Sample ID	Analyte	MS % Recovery	MSD % Recovery	RPD (percent)	Control Limits % Recovery	Control Limits RPD	Qualified Result	Units
Metals	S-38443-011718-JC-047	Antimony	41	46	9	75 - 125	20	1.8 J	mg/kg
	S-38443-011718-JC-048							1.3 J	mg/kg
Metals	S-38443-011818-JC-050	Antimony	39	35	8	75 - 125	20	0.34 UJ	mg/kg
	S-38443-011818-JC-051							2.0 J	mg/kg
	S-38443-011818-JC-052							1.3 J	mg/kg
	S-38443-011818-JC-053							1.2 J	mg/kg
Metals	SO-38443-032018-BW-001	Antimony	61	57	6	75 - 125	20	0.61 J	mg/kg
	SO-38443-032018-BW-002							0.50 J	mg/kg
Metals	S-38443-051618-JC-072	Antimony	40	58	26	75 - 125	20	1.9 J	mg/kg
	S-38443-051618-JC-073							0.59 J	mg/kg
	S-38443-051618-JC-074							0.23 J	mg/kg
Metals	S-38443-051718-JC-075	Antimony	50	50	1	75 - 125	20	0.15 J	mg/kg
	S-38443-051718-JC-083							0.12 UJ	mg/kg
	S-38443-051718-JC-076							0.23 J	mg/kg
	S-38443-051718-JC-077							0.12 UJ	mg/kg
	S-38443-051718-JC-078							12 J	mg/kg
	S-38443-051718-JC-079							1.1 J	mg/kg
	S-38443-051718-JC-080							0.66 J	mg/kg
	S-38443-051718-JC-081							0.82 J	mg/kg
	S-38443-051718-JC-082							0.20 UJ	mg/kg
Metals	S-38443-052918-JC-085	Antimony	42	37	11	75 - 125	20	0.56 J	mg/kg
	S-38443-052918-JC-094							0.19 J	mg/kg
	S-38443-052918-JC-095							0.15 J	mg/kg
	S-38443-052918-JC-096							0.16 J	mg/kg
	S-38443-052918-JC-097							0.19 J	mg/kg
	S-38443-052918-JC-098							1.1 J	mg/kg
	S-38443-052918-JC-099							5.0 J	mg/kg
	S-38443-052918-JC-086							0.22 J	mg/kg
	S-38443-052918-JC-087							0.16 J	mg/kg
	S-38443-052918-JC-088							0.34 J	mg/kg
	S-38443-052918-JC-089							0.36 J	mg/kg
	S-38443-052918-JC-090							0.24 J	mg/kg
	S-38443-052918-JC-091							0.13 J	mg/kg
	S-38443-052918-JC-092							0.16 J	mg/kg
	S-38443-052918-JC-093							0.13 UJ	mg/kg

Table 10

Qualified Sample Results Due to Outlying MS/MSD Results
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

Parameter	Sample ID	Analyte	MS % Recovery	MSD % Recovery	RPD (percent)	Control Limits % Recovery	Control Limits RPD	Qualified Result	Units
Metals	S-38443-053018-JC-100	Antimony	40	39	1	75 - 125	20	0.66 J	mg/kg
	S-38443-053018-JC-109							0.60 J	mg/kg
	S-38443-053018-JC-110							0.20 J	mg/kg
	S-38443-053018-JC-111							0.14 UJ	mg/kg
	S-38443-053018-JC-112							0.32 J	mg/kg
	S-38443-053018-JC-101							0.75 J	mg/kg
	S-38443-053018-JC-102							0.56 J	mg/kg
	S-38443-053018-JC-103							0.16 J	mg/kg
	S-38443-053018-JC-104							0.23 J	mg/kg
	S-38443-053018-JC-105							0.25 J	mg/kg
	S-38443-053018-JC-106							5.4 J	mg/kg
	S-38443-053018-JC-107							0.45 J	mg/kg
	S-38443-053018-JC-108							0.28 J	mg/kg
Metals	S-38443-011118-JC-038	Barium	150	171	11	75 - 125	20	200 J	mg/kg
	S-38443-011118-JC-039							440 J	mg/kg
	S-38443-011118-JC-040							68 J	mg/kg
	S-38443-011118-JC-041							42 J	mg/kg
	S-38443-011118-JC-042							220 J	mg/kg
Metals	S-38443-051618-JC-072	Barium	139	179	15	75 - 125	20	110 J	mg/kg
	S-38443-051618-JC-073							59 J	mg/kg
	S-38443-051618-JC-074							82 J	mg/kg
Metals	SO-38443-032018-BW-001	Calcium	127	135	2	75 - 125	20	2600 J	mg/kg
	SO-38443-032018-BW-002							140000 J	mg/kg
Metals	S-38443-122017-JC-020	Copper	380	206	30	75 - 125	20	400 J	mg/kg
Metals	S-38443-122017-JC-020	Lead	199	49	31	75 - 125	20	500 J	mg/kg
Metals	S-38443-051618-JC-072	Lead	101	146	26	75 - 125	20	28 J	mg/kg
	S-38443-051618-JC-073							23 J	mg/kg
	S-38443-051618-JC-074							34 J	mg/kg
Metals	S-38443-122017-JC-016	Manganese	13	121	25	75 - 125	20	250 J	mg/kg
	S-38443-122017-JC-018							410 J	mg/kg

Table 10

Qualified Sample Results Due to Outlying MS/MSD Results
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

Parameter	Sample ID	Analyte	MS % Recovery	MSD % Recovery	RPD (percent)	Control Limits % Recovery	Control Limits RPD	Qualified Result	Units
Metals	S-38443-011818-JC-050	Manganese	151	197	8	75 - 125	20	450 J	mg/kg
	S-38443-011818-JC-051							470 J	mg/kg
	S-38443-011818-JC-052							890 J	mg/kg
	S-38443-011818-JC-053							380 J	mg/kg
Metals	S-38443-051718-JC-075	Manganese	-25	-8	8	75 - 125	20	370 J	mg/kg
	S-38443-051718-JC-083							340 J	mg/kg
	S-38443-051718-JC-076							320 J	mg/kg
	S-38443-051718-JC-077							280 J	mg/kg
	S-38443-051718-JC-078							280 J	mg/kg
	S-38443-051718-JC-079							76 J	mg/kg
	S-38443-051718-JC-080							130 J	mg/kg
	S-38443-051718-JC-081							230 J	mg/kg
	S-38443-051718-JC-082							37 J	mg/kg
Metals	S-38443-011718-JC-047	Mercury	176	101	28	75 - 125	20	0.35 J	mg/kg
Metals	SO-38443-032018-BW-001	Potassium	153	148	3	75 - 125	20	970 J	mg/kg
	SO-38443-032018-BW-002							470 J	mg/kg
Metals	S-38443-122017-JC-016	Sodium	55	58	2	75 - 125	20	120 J	mg/kg
	S-38443-122017-JC-018	Sodium						1000 J	mg/kg
Metals	S-38443-010318-JC-025	Zinc	175	136	14	75 - 125	20	140 J	mg/kg
	S-38443-010318-JC-026							40 J	mg/kg

Notes:

J - Estimated concentration
MS - Matrix Spike
MSD - Matrix Spike Duplicate
R - Rejected
RPD - Relative Percent Difference
SVOCs - Semi-volatile Organic Compounds
UJ - Not detected; associated reporting limit is estimated
VOCs - Volatile Organic Compounds

Table 11

Qualified Sample Data Due to Outlying ICP Serial Dilution Results
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

Parameter	Serial Dilution Sample ID	Analyte	%D	Associated Sample ID	Qualified Result	Units
Metals	S-38443-052918-JC-085	Lead - coarse fraction	11	S-38443-052918-JC-085	33 J	mg/Kg
				S-38443-052918-JC-098	100 J	mg/Kg
				S-38443-053018-JC-102	41 J	mg/Kg
Metals	S-38443-120717-JC-002	Copper	12	S-38443-120717-JC-002	42 J	mg/kg
				S-38443-120717-JC-003	26 J	mg/kg
				S-38443-120717-JC-004	22 J	mg/kg
Metals	S-38443-010318-JC-025	Copper	11	S-38443-010318-JC-025	110 J	mg/kg
				S-38443-010318-JC-026	12 J	mg/kg
Metals	S-38443-011118-JC-039	Aluminum	13	S-38443-011118-JC-038	12000 J	mg/kg
				S-38443-011118-JC-039	14000 J	mg/kg
				S-38443-011118-JC-040	5900 J	mg/kg
				S-38443-011118-JC-041	3900 J	mg/kg
				S-38443-011118-JC-042	10000 J	mg/kg

Notes:

%D - Percent Difference
ICP - Inductively Coupled Plasma
J - Estimated concentration

Table 12

Qualified Sample Data Due to Variability in Field Duplicate Results
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

Parameter	Analyte	RPD	Diff	RL	Sample ID	Qualified Result	Field Duplicate Sample ID	Qualified Result	Units
VOCs	1,1,1-Trichloroethane	196	93	8.1	S-38443-051718-JC-080	1.0 J	S-38443-051718-JC-081	94 J	µg/Kg
SVOCs	2-Methylnaphthalene	108	91	7.8	S-38443-122117-JC-022	39 J	S-38443-122117-JC-023	130 J	µg/Kg
	Acenaphthene	184	402	7.8		18 J		420 J	µg/Kg
	Anthracene	173	538	7.8		42 J		580 J	µg/Kg
	Benzo(a)anthracene	160	1600	7.8		200 J		1800 J	µg/Kg
	Benzo(a)pyrene	147	1100	7.8		200 J		1300 J	µg/Kg
	Benzo(b)fluoranthene	147	1610	7.8		290 J		1900 J	µg/Kg
	Benzo(g,h,i)perylene	112	480	7.8		190 J		670 J	µg/Kg
	Benzo(k)fluoranthene	144	570	7.8		110 J		680 J	µg/Kg
	bis(2-Ethylhexyl)phthalate (DEHP)	181	1235	82		65 J		1300 J	µg/Kg
	Chrysene	156	1580	7.8		220 J		1800 J	µg/Kg
	Dibenz(a,h)anthracene	133	200	7.8		50 J		250 J	µg/Kg
	Dibenzofuran	123	122	59		38 J		160 J	µg/Kg
	Fluoranthene	168	3920	7.8		380 J		4300 J	µg/Kg
	Fluorene	184	259	7.8		11 J		270 J	µg/Kg
	Indeno(1,2,3-cd)pyrene	127	490	7.8		140 J		630 J	µg/Kg
	Naphthalene	117	111	7.8		39 J		150 J	µg/Kg
	Phenanthrene	173	2410	7.8		190 J		2600 J	µg/Kg
	Pyrene	167	3090	7.8		310 J		3400 J	µg/Kg
SVOCs	Benzo(a)anthracene	56	220	71	S-38443-010818-JC-032	280 J	S-38443-010818-JC-033	500 J	µg/Kg
	Benzo(a)pyrene	71	410	71		370 J		780 J	µg/Kg
	Benzo(b)fluoranthene	86	1080	71		720 J		1800 J	µg/Kg
	Benzo(g,h,i)perylene	106	360	71		160 J		520 J	µg/Kg
	Benzo(k)fluoranthene	104	410	71		190 J		600 J	µg/Kg
	Chrysene	78	450	71		350 J		800 J	µg/Kg
	Indeno(1,2,3-cd)pyrene	75	230	71		190 J		420 J	µg/Kg
SVOCs	2-Methylnaphthalene	104	24	7.0	S-38443-011818-JC-051	11 J	S-38443-011818-JC-052	35 J	µg/Kg
	Anthracene	149	29	7.0		5.0 J		34 J	µg/Kg
	Fluoranthene	117	148	7.0		52 J		200 J	µg/Kg
	Naphthalene	91	25	7.0		15 J		40 J	µg/Kg
	Phenanthrene	133	152	7.0		38 J		190 J	µg/Kg
	Pyrene	108	105	7.0		45 J		150 J	µg/Kg

Table 12

Qualified Sample Data Due to Variability in Field Duplicate Results
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

Parameter	Analyte	RPD	Diff	RL	Sample ID	Qualified Result	Field Duplicate Sample ID	Qualified Result	Units
SVOCs	Benzo(a)anthracene	171	405	180	S-38443-012318-JC-061	440 J	S-38443-012318-JC-062	35 J	µg/Kg
	Benzo(a)pyrene	197	486	180		490 J		3.7 UJ	µg/Kg
	Benzo(b)fluoranthene	168	593	180		650 J		57 J	µg/Kg
	Benzo(g,h,i)perylene	198	388	180		390 J		2.0 UJ	µg/Kg
	Chrysene	183	564	180		590 J		26 J	µg/Kg
	Fluoranthene	178	1130	180		1200 J		70 J	µg/Kg
	Phenanthrene	176	1218	180		1300 J		82 J	µg/Kg
	Pyrene	180	852	180		900 J		48 J	µg/Kg
SVOCs	Fluoranthene	77	35	11	S-38443-051718-JC-080	28 J	S-38443-051718-JC-081	63 J	µg/Kg
	Pyrene	78	32	11		25 J		57 J	µg/Kg
SVOCs	Benzo(a)anthracene	190	27	7.7	S-38443-052918-JC-096	0.73 UJ	S-38443-052918-JC-097	28 J	µg/Kg
	Benzo(a)pyrene	104	24	7.7		11 J		35 J	µg/Kg
	Benzo(b)fluoranthene	102	31	7.7		15 J		46 J	µg/Kg
	Benzo(g,h,i)perylene	193	24	7.7		0.41 UJ		24 J	µg/Kg
	Benzo(k)fluoranthene	182	16	7.7		0.79 UJ		17 J	µg/Kg
	Chrysene	186	34	7.7		1.3 UJ		35 J	µg/Kg
	Fluoranthene	101	39	7.7		19 J		58 J	µg/Kg
	Indeno(1,2,3-cd)pyrene	193	24	7.7		0.41 UJ		24 J	µg/Kg
	Phenanthrene	104	17	7.7		7.9 J		25 J	µg/Kg
	Pyrene	99	33	7.7		17 J		50 J	µg/Kg
PCBs	Aroclor-1254 (PCB-1254)	128	1560	260	S-38443-010818-JC-032	2000 J	S-38443-010818-JC-033	440 J	µg/Kg
Metals	Calcium	168	14600	200	S-38443-011818-JC-051	1400 J	S-38443-011818-JC-052	16000 J	mg/kg
	Magnesium	161	5090	200		610 J		5700 J	mg/kg
Metals	Cadmium	112	0.79	0.27	S-38443-012318-JC-061	1.1 J	S-38443-012318-JC-062	0.31 J	mg/kg
	Silver	114	0.233	0.27		0.32 J		0.087 J	mg/kg
	Mercury	121	1.28	0.16		1.7 J		0.42 J	mg/kg
	Cyanide (total)	136	1.7	0.70		2.1 J		0.40 J	mg/kg
Metals	Silver	176	4.68	0.27	S-38443-010818-JC-032	0.32 J	S-38443-010818-JC-033	5.0 J	mg/kg
	Mercury	190	0.789	0.16		0.021 UJ		0.81 J	mg/kg

Notes:

Diff - Difference (<2XRL for soils)
J - Estimated concentration
PCBs - Polychlorinated Biphenyls
RL - Reporting Limit
RPD - Relative Percent Difference
SVOCs - Semi-volatile Organic Compounds
UJ - Not detected; associated reporting limit is estimated
VOCs - Volatile Organic Compounds

Table 13

Qualified Sample Data Due to Low Percent Solid Content
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

Parameter	Associated Sample ID	Total Solids (percent)	Analyte	Qualified Result	Units
PCBs	S-38443-053118-JC-119	44.4	Aroclor-1016 (PCB-1016)	48 UJ	µg/Kg
			Aroclor-1221 (PCB-1221)	52 UJ	µg/Kg
			Aroclor-1232 (PCB-1232)	50 UJ	µg/Kg
			Aroclor-1242 (PCB-1242)	42 UJ	µg/Kg
			Aroclor-1248 (PCB-1248)	52 UJ	µg/Kg
			Aroclor-1254 (PCB-1254)	50 UJ	µg/Kg
			Aroclor-1260 (PCB-1260)	48 UJ	µg/Kg
Pesticides	S-38443-053118-JC-119	44.4	4,4'-DDD	3.5 UJ	µg/Kg
			4,4'-DDE	3.5 UJ	µg/Kg
			4,4'-DDT	2.7 UJ	µg/Kg
			Aldrin	1.8 UJ	µg/Kg
			alpha-BHC	2.1 UJ	µg/Kg
			alpha-Chlordane	3.5 UJ	µg/Kg
			beta-BHC	4.1 UJ	µg/Kg
			delta-BHC	4.0 UJ	µg/Kg
			Dieldrin	2.6 UJ	µg/Kg
			Endosulfan I	2.8 UJ	µg/Kg
			Endosulfan II	3.5 UJ	µg/Kg
			Endosulfan sulfate	3.0 UJ	µg/Kg
			Endrin	4.5 UJ	µg/Kg
			Endrin aldehyde	3.1 UJ	µg/Kg
			Endrin ketone	2.1 UJ	µg/Kg
			gamma-BHC (lindane)	4.2 UJ	µg/Kg
			gamma-Chlordane	2.9 UJ	µg/Kg
			Heptachlor	3.7 UJ	µg/Kg
			Heptachlor epoxide	3.4 UJ	µg/Kg
			Methoxychlor	15 UJ	µg/Kg
			Toxaphene	59 UJ	µg/Kg

Table 13

Qualified Sample Data Due to Low Percent Solid Content
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

Parameter	Associated Sample ID	Total Solids (percent)	Analyte	Qualified Result	Units
SVOCs	S-38443-053118-JC-119	44.4	Naphthalene	110 J	µg/Kg
			Biphenyl (1,1-Biphenyl)	130 J	µg/Kg
			Indeno(1,2,3-cd)pyrene	21 J	µg/Kg
			Phenanthrene	210 J	µg/Kg
			Benzo(a)pyrene	27 J	µg/Kg
			Chrysene	40 J	µg/Kg
			Benzo(a)anthracene	41 J	µg/Kg
			Benzo(b)fluoranthene	43 J	µg/Kg
			Fluoranthene	72 J	µg/Kg
			2-Methylnaphthalene	750 J	µg/Kg
			Pyrene	77 J	µg/Kg
			2,2'-Oxybis(1-chloropropane)	22 UJ	µg/Kg
			2,4,5-Trichlorophenol	150 UJ	µg/Kg
			2,4,6-Trichlorophenol	140 UJ	µg/Kg
			2,4-Dichlorophenol	99 UJ	µg/Kg
			2,4-Dimethylphenol	90 UJ	µg/Kg
			2,4-Dinitrophenol	320 UJ	µg/Kg
			2,4-Dinitrotoluene	140 UJ	µg/Kg
			2,6-Dinitrotoluene	130 UJ	µg/Kg
			2-Chloronaphthalene	31 UJ	µg/Kg
			2-Chlorophenol	22 UJ	µg/Kg
			2-Methylphenol	70 UJ	µg/Kg
			2-Nitroaniline	90 UJ	µg/Kg
			2-Nitrophenol	29 UJ	µg/Kg
			3&4-Methylphenol	65 UJ	µg/Kg
			3,3'-Dichlorobenzidine	97 UJ	µg/Kg
			3-Nitroaniline	110 UJ	µg/Kg
			4,6-Dinitro-2-methylphenol	180 UJ	µg/Kg
			4-Bromophenyl phenyl ether	31 UJ	µg/Kg
			4-Chloro-3-methylphenol	100 UJ	µg/Kg
			4-Chloroaniline	67 UJ	µg/Kg

Table 13

Qualified Sample Data Due to Low Percent Solid Content
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

Parameter	Associated Sample ID	Total Solids (percent)	Analyte	Qualified Result	Units
SVOCs	S-38443-053118-JC-119	44.4	4-Chlorophenyl phenyl ether	31 UJ	µg/Kg
			4-Nitroaniline	130 UJ	µg/Kg
			4-Nitrophenol	210 UJ	µg/Kg
			Acenaphthene	1.7 UJ	µg/Kg
			Acenaphthylene	0.79 UJ	µg/Kg
			Acetophenone	25 UJ	µg/Kg
			Anthracene	1.8 UJ	µg/Kg
			Atrazine	81 UJ	µg/Kg
			Benzaldehyde	52 UJ	µg/Kg
			Benzo(g,h,i)perylene	0.79 UJ	µg/Kg
			Benzo(k)fluoranthene	1.5 UJ	µg/Kg
			bis(2-Chloroethoxy)methane	27 UJ	µg/Kg
			bis(2-Chloroethyl)ether	27 UJ	µg/Kg
			bis(2-Ethylhexyl)phthalate (DEHP)	110 UJ	µg/Kg
			Butyl benzylphthalate (BBP)	49 UJ	µg/Kg
			Caprolactam	170 UJ	µg/Kg
			Carbazole	43 UJ	µg/Kg
			Di-n-butylphthalate (DBP)	49 UJ	µg/Kg
			Di-n-octyl phthalate (DnOP)	63 UJ	µg/Kg
			Dibenz(a,h)anthracene	1.5 UJ	µg/Kg
			Dibenzofuran	29 UJ	µg/Kg
			Diethyl phthalate	70 UJ	µg/Kg
			Dimethyl phthalate	31 UJ	µg/Kg
			Fluorene	1.2 UJ	µg/Kg
			Hexachlorobenzene	4.7 UJ	µg/Kg
			Hexachlorobutadiene	27 UJ	µg/Kg
			Hexachlorocyclopentadiene	140 UJ	µg/Kg
			Hexachloroethane	20 UJ	µg/Kg
			Isophorone	27 UJ	µg/Kg
			N-Nitrosodi-n-propylamine	25 UJ	µg/Kg
			N-Nitrosodiphenylamine	27 UJ	µg/Kg

Table 13

Qualified Sample Data Due to Low Percent Solid Content
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

Parameter	Associated Sample ID	Total Solids (percent)	Analyte	Qualified Result	Units
SVOCs	S-38443-053118-JC-119	44.4	Nitrobenzene	29 UJ	µg/Kg
			Pentachlorophenol	130 UJ	µg/Kg
			Phenol	18 UJ	µg/Kg
VOCs	S-38443-053118-JC-119	44.4	Xylenes (total)	16 J	µg/Kg
			Acetone	250 J	µg/Kg
			Ethylbenzene	3.6 J	µg/Kg
			2-Butanone (Methyl ethyl ketone) (MEK)	38 J	µg/Kg
			Tetrachloroethene	4.0 J	µg/Kg
			Cyclohexane	4.8 J	µg/Kg
			Methyl cyclohexane	6.7 J	µg/Kg
			Toluene	8.9 J	µg/Kg
			1,1,1-Trichloroethane	2.5 UJ	µg/Kg
			1,1,2,2-Tetrachloroethane	4.4 UJ	µg/Kg
			1,1,2-Trichloroethane	3.5 UJ	µg/Kg
			1,1-Dichloroethane	2.1 UJ	µg/Kg
			1,1-Dichloroethene	2.8 UJ	µg/Kg
			1,2,4-Trichlorobenzene	1.8 UJ	µg/Kg
			1,2-Dibromo-3-chloropropane (DBCP)	11 UJ	µg/Kg
			1,2-Dibromoethane (Ethylene dibromide)	2.4 UJ	µg/Kg
			1,2-Dichlorobenzene	3.4 UJ	µg/Kg
			1,2-Dichloroethane	2.4 UJ	µg/Kg
			1,2-Dichloropropane	2.6 UJ	µg/Kg
			1,3-Dichlorobenzene	2.5 UJ	µg/Kg
			1,4-Dichlorobenzene	2.7 UJ	µg/Kg
			2-Hexanone	13 UJ	µg/Kg
			4-Methyl-2-pentanone	11 UJ	µg/Kg
			Benzene	2.2 UJ	µg/Kg
			Bromodichloromethane	2.1 UJ	µg/Kg
			Bromoform	7.4 UJ	µg/Kg
			Bromomethane (Methyl bromide)	3.1 UJ	µg/Kg

Table 13

Qualified Sample Data Due to Low Percent Solid Content
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

Parameter	Associated Sample ID	Total Solids (percent)	Analyte	Qualified Result	Units
VOCs	S-38443-053118-JC-119	44.4	Carbon disulfide	3.6 UJ	µg/Kg
			Carbon tetrachloride	10 UJ	µg/Kg
			Chlorobenzene	2.8 UJ	µg/Kg
			Chloroethane	3.8 UJ	µg/Kg
			Chloroform (Trichloromethane)	2.4 UJ	µg/Kg
			Chloromethane (Methyl chloride)	3.2 UJ	µg/Kg
			cis-1,2-Dichloroethene	2.0 UJ	µg/Kg
			cis-1,3-Dichloropropene	4.4 UJ	µg/Kg
			Dibromochloromethane	8.6 UJ	µg/Kg
			Dichlorodifluoromethane (CFC-12)	2.9 UJ	µg/Kg
			Isopropyl benzene	2.6 UJ	µg/Kg
			Methyl acetate	11 UJ	µg/Kg
			Methyl tert butyl ether (MTBE)	2.5 UJ	µg/Kg
			Methylene chloride	37 UJ	µg/Kg
			Styrene	3.6 UJ	µg/Kg
			trans-1,2-Dichloroethene	1.4 UJ	µg/Kg
			trans-1,3-Dichloropropene	3.2 UJ	µg/Kg
			Trichloroethene	2.0 UJ	µg/Kg
			Trichlorofluoromethane (CFC-11)	3.3 UJ	µg/Kg
			Trifluorotrichloroethane (CFC-113)	4.0 UJ	µg/Kg
			Vinyl chloride	2.6 UJ	µg/Kg
Metals	S-38443-053118-JC-119	44.4	Silver	0.078 J	mg/kg
			Cadmium	0.13 J	mg/kg
			Beryllium	0.57 J	mg/kg
			Sodium	110 J	mg/kg
			Aluminum	11000 J	mg/kg
			Iron	11000 J	mg/kg
			Calcium	120000 J	mg/kg
			Nickel	13 J	mg/kg
			Copper	14 J	mg/kg

Table 13

Qualified Sample Data Due to Low Percent Solid Content
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

Parameter	Associated Sample ID	Total Solids (percent)	Analyte	Qualified Result	Units
Metals	S-38443-053118-JC-119	44.4	Lead	15 J	mg/kg
			Vanadium	24 J	mg/kg
			Magnesium	26000 J	mg/kg
			Manganese	290 J	mg/kg
			Cobalt	3.7 J	mg/kg
			Potassium	380 J	mg/kg
			Arsenic	6.5 J	mg/kg
			Chromium	63 J	mg/kg
			Barium	75 J	mg/kg
			Zinc	93 J	mg/kg
			Antimony	0.25 UJ	mg/kg
			Selenium	0.24 UJ	mg/kg
			Thallium	0.095 UJ	mg/kg
			Chromium III (trivalent)	55 J	mg/kg
			Chromium VI (hexavalent)	7.5 J	mg/kg
			Mercury	0.045 UJ	mg/kg
			Cyanide (total)	0.48 J	mg/kg

Notes:

J - Estimated concentration
UJ - Not detected; associated reporting limit is estimated
VOCs - Volatile Organic Compounds
SVOCs - Semi-volatile Organic Compounds
PCBs - Polychlorinated Biphenyls

Table 14

Qualified Sample Data Due to Differences in Dual Column Results
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

Parameter	Analyte	RPD (percent)	Criteria (percent)	Associated Sample ID	Result		Units
PCBs	Aroclor-1254 (PCB-1254)	146	40	S-38443-010418-JC-027	450	NJ	µg/Kg
							µg/Kg
PCBs	Aroclor-1242 (PCB-1242)	48	40	S-38443-012318-JC-061	230	J	µg/Kg
Pesticides	Endrin	134	40	S-38443-120717-JC-002	130	NJ	µg/Kg
	Heptachlor epoxide	130	40		130	NJ	µg/Kg
Pesticides	Methoxychlor	84	40	S-38443-122017-JC-016	3.1	NJ	µg/Kg
Pesticides	gamma-BHC (lindane)	64	40	S-38443-122017-JC-018	3400	J	µg/Kg
Pesticides	4,4'-DDE	96	40	S-38443-122017-JC-020	8.1	NJ	µg/Kg
Pesticides	4,4'-DDE	112	40	S-38443-122117-JC-022	3.8	NJ	µg/Kg
	4,4'-DDD	106	40		6.8	NJ	µg/Kg
Pesticides	4,4'-DDT	104	40	S-38443-010818-JC-031	61	NJ	µg/Kg
Pesticides	4,4'-DDT	88	40	S-38443-011118-JC-039	3.1	NJ	µg/Kg
	Endrin aldehyde	73	40		5.4	J	µg/Kg
Pesticides	Methoxychlor	122	40	S-38443-011118-JC-042	1.5	NJ	µg/Kg
Pesticides	Methoxychlor	176	40	S-38443-011218-JC-043	7.1	NJ	µg/Kg
Pesticides	gamma-Chlordane	108	40	S-38443-011718-JC-048	2.6	NJ	µg/Kg
Pesticides	Methoxychlor	113	40	S-38443-011818-JC-050	1.5	NJ	µg/Kg

Table 14

Qualified Sample Data Due to Differences in Dual Column Results
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

Parameter	Analyte	RPD (percent)	Criteria (percent)	Associated Sample ID	Result	Units
Pesticides	Methoxychlor	170	40	S-38443-011918-JC-054	1.8 NJ	µg/Kg
Pesticides	4,4'-DDD	58	40	S-38443-051718-JC-076	1.8 J	µg/Kg
Pesticides	4,4'-DDD	107	40	S-38443-051718-JC-081	2.8 NJ	µg/Kg
Pesticides	Endrin ketone	85	40	S-38443-052918-JC-085	1.4 NJ	µg/Kg
	4,4'-DDT	111	40		2.3 NJ	µg/Kg
Pesticides	4,4'-DDT	125	40	S-38443-052918-JC-086	3.7 NJ	µg/Kg
Pesticides	4,4'-DDD	41	40	S-38443-052918-JC-087	1.9 J	µg/Kg
Pesticides	Endrin ketone	42	40	S-38443-052918-JC-089	21 J	µg/Kg
Pesticides	4,4'-DDT	60	40	S-38443-053018-JC-112	1.3 J	µg/Kg
Pesticides	beta-BHC	122	40	S-38443-053018-JC-106	1.9 NJ	µg/Kg
Pesticides	Endrin aldehyde	131	40	S-38443-053118-JC-118	1.8 NJ	µg/Kg

Table 14

Qualified Sample Data Due to Differences in Dual Column Results
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

Parameter	Analyte	RPD (percent)	Criteria (percent)	Associated Sample ID	Result	Units
Pesticides	Dieldrin	104	40	S-38443-052918-JC-092	2.0 NJ	µg/Kg
	gamma-Chlordane	69			30 J	µg/Kg
	Endosulfan II	112			4.3 NJ	µg/Kg
	Heptachlor epoxide	147			8.0 NJ	µg/Kg
	gamma-BHC (lindane)	74			3.8 J	µg/Kg
Pesticides	beta-BHC	47	40	S-38443-053018-JC-110	4.5 J	µg/Kg

Notes:

J - Estimated concentration
NJ - Presumptively Identified, Estimated concentration
PCBs - Polychlorinated Biphenyls
RPD - Relative Percent Difference

Table 15

Qualified Sample Results Due to Outlying Identification Criteria
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

Parameter	Analyte	Associated Sample ID	Qualified Result	Units
Dioxin/Furan	1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	S-38443-010418-JC-027	200 J	pg/g
	1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)		71 J	pg/g
Dioxin/Furan	1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	S-38443-010818-JC-029	14 J	pg/g
Dioxin/Furan	2,3,7,8-Tetrachlorodibenzofuran (TCDF)	S-38443-010818-JC-030	14 J	pg/g
Dioxin/Furan	1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	S-38443-010818-JC-031	69 J	pg/g
Dioxin/Furan	1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	S-38443-010818-JC-033	48 J	pg/g
	2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)		1.3 J	pg/g
Dioxin/Furan	1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	S-38443-010918-JC-036	17 J	pg/g
Dioxin/Furan	2,3,7,8-Tetrachlorodibenzofuran (TCDF)	S-38443-121917-JC-015	1.7 J	pg/g
Dioxin/Furan	1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	SO-38443-032018-BW-001	110 J	pg/g
Dioxin/Furan	1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	SO-38443-032018-BW-002	3.8 J	pg/g
Dioxin/Furan	1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	SO-38443-032018-BW-002	2.6 J	pg/g

Notes:

J - Estimated concentration

Table 16

Summary of Qualified Sample Data Due to Matrix Interference
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017, January through May 2018

Parameter	Sample ID	Analyte	Qualified Result	Units
Dioxin/Furan	S-38443-010818-JC-029	2,3,7,8-Tetrachlorodibenzofuran (TCDF)	70 J	pg/g
Dioxin/Furan	S-38443-010818-JC-031	1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	160 J	pg/g
		2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	110 J	pg/g
		2,3,7,8-Tetrachlorodibenzofuran (TCDF)	34 J	pg/g

Notes:

J - Estimated concentration

Memorandum

Revised May 10, 2019
April 17, 2019
July 16, 2019

To:	Julian Hayward	Ref. No.:	038443-320
From:	Angela Bown/cs/52-NF	Tel:	513-942-4750
cc:	Brent Ramdial, Valerie Chan		

Subject: **Analytical Results and Full/Innovative Validation**
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

1. Introduction

This document details a validation of analytical results for soil samples collected in support of the Soil Sampling Program at the Moraine, Ohio site during October through December 2018. Samples were submitted to TestAmerica Laboratories, Inc. (TA) located in North Canton, Ohio and Knoxville, Tennessee. A sample collection and analysis summary is presented in Table 1. The validated analytical results are summarized in Table 2. A summary of the analytical methodology is presented in Table 3.

Full Contract Laboratory Program (CLP) equivalent raw data deliverables were provided by the laboratory. Evaluation of the data was based on information obtained from the finished data sheets, raw data, chain of custody forms, calibration data, blank data, duplicate data, recovery data from surrogate spikes/laboratory control samples (LCS)/matrix spike (MS) samples and field quality assurance/quality (QA/QC) samples. The assessment of analytical and in-house data included checks for data consistency (by observing comparability of duplicate analyses), adherence to accuracy and precision criteria, and transmittal errors.

The QA/QC criteria by which these data have been assessed are outlined in the analytical methods referenced in Table 3 and applicable guidance from the documents entitled:

i) "Remedial Investigation/Feasibility Study (RI/FS) Work Plan for Operable Units 1 and 2, Appendix E-Quality Assurance Project Plan", September 20, 2017

ii) "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review", USEPA 540-R-10-011, January 2010

iii) "USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review", USEPA 540-R-08-01, June 2008

iv) "National Functional Guidelines for High Resolution Superfund Methods Data Review", United States Environmental Protection Agency (USEPA) 542-B-16-001, April 2016.

Items ii), iii), and iv) will subsequently be referred to as the "Guidelines" in this Memorandum.

This memo was revised to correct the total lead result for fractionated lead analysis for sample SS-38443-103018-JC-059 in Table 2.

2. Sample Holding Time and Preservation

The sample holding time criteria for the analyses are summarized in Table 3. Sample chain of custody documents and analytical reports were used to determine sample holding times. All samples were prepared and analyzed within the required holding times with the exception of one sample for volatile organic compounds (VOC) analysis. Table 4 presents the qualified sample results.

All samples were properly preserved, delivered on ice, and stored by the laboratory at the required temperature (0-6°C).

3. Gas Chromatography/Mass Spectrometer (GC/MS) – Tuning and Mass Calibration (Instrument Performance Check) and Inductively Coupled Plasma/Mass Spectrometer (ICP/MS)

3.1 Organic Analyses

Prior to VOC and semi-volatile organic compound (SVOC) analysis, GC/MS instrumentation is tuned to ensure optimization over the mass range of interest. To evaluate instrument tuning, methods require the analysis of specific tuning compounds bromofluorobenzene (BFB) and decafluorotriphenylphosphine (DFTPP), respectively. The resulting spectra must meet the criteria cited in the methods before analysis is initiated. Analysis of the tuning compound must then be repeated every 12 hours throughout sample analysis to ensure the continued optimization of the instrument.

Tuning compounds were analyzed at the required frequency throughout VOC and SVOC analysis periods. All tuning criteria were met indicating that proper optimization of the instrumentation was achieved.

3.2 High Resolution GC/MS Analyses

GC/MS system performance checks are performed to ensure mass resolution, identification, and calibration. The following criteria must be met before sample analysis can begin:

i) For the PFK (perfluorokerosene) molecular leak, the resolution must be greater than or equal to 10,000. The deviation between the exact mass and the theoretical mass for each of the three to five ions monitored must be less than 5 parts per million (ppm).

ii) The Window Defining Mix (WDM) should be analyzed after the PFK, prior to calibration and every 12 hours during sample analysis.

iii) The Isomer Specificity Check standard should be analyzed after the WMD, prior to calibration and every 12 hours during sample analysis.

All GC/MS performance checks were performed and all criteria were met.

3.3 Inorganic Analyses

To ensure adequate mass resolution, identification, and to some degree, sensitivity, the performance of each ICP/MS instrument used for metals analyses is checked prior to calibration and initiating an analysis sequence through the analysis of a tuning solution.

Instrument performance check data were reviewed. The tuning solution was analyzed at the required frequency throughout the analyses. The results of all instrument performance checks were within the method acceptance criteria, indicating that proper optimization of the instrumentation was achieved.

4. Initial Calibration - Organic Analyses

4.1 GC/MS

To quantify VOCs and SVOCs of interest in samples, calibration of the GC/MS over a specific concentration range must be performed. Initially, a five-point calibration curve containing all compounds of interest is analyzed to characterize instrument response for each analyte over a specific concentration range. Linearity of the calibration curve and instrument sensitivity are evaluated against the following criteria:

i) All relative response factors (RRFs) must be greater than or equal to 0.050 (greater than or equal to 0.010 for compounds that exhibit poor response)

ii) The percent relative standard deviation (%RSD) values must not exceed 20.0 percent (40.0 percent for compounds that exhibit poor response) or a minimum correlation coefficient (R) and minimum coefficient of determination (R^2) of 0.995 and 0.99, respectively, if linear and quadratic equation calibration curves are used

The initial calibration data for VOCs and SVOCs were reviewed. All compounds met the above criteria for sensitivity and linearity.

4.2 High Resolution GC/MS

To quantify dioxins/furans of interest, calibration of the GC/MS over a specific concentration range must be performed. Initially, a five-point calibration curve containing all compounds required by the method is analyzed to characterize instrument response for each analyte over a specific concentration range. Linearity and sensitivity of the calibration curve are evaluated against the following criteria:

i) The percent relative standard deviation (%RSD) for the relative response (RR) of congeners calibrated by isotope dilution must not exceed 20.0 percent or a minimum correlation coefficient (R) of 0.99 if linear calibration curves are used

ii) The percent relative standard deviation (%RSD) for the relative response factor (RRF) of congeners calibrated by internal standard must not exceed 35.0 percent or a minimum correlation coefficient (R) of 0.99 if linear calibration curves are used

iii) The signal to noise ratio (S/N) must be ≥ 10 percent for all analytes and the ion abundance ratios must be within the method required window

The initial calibration data were reviewed. All compounds met the above criteria for linearity and sensitivity.

4.3 GC

To quantify pesticides, the performance evaluation mixture (PEM) is analyzed at the beginning and end of the initial calibration sequence and throughout the analytical sequence. The results of these analyses are used to evaluate dichlorodiphenyltrichloroethane (DDT)/endrin breakdown, using the method degradation criteria of <15 percent. PEM standards were analyzed at the required frequency throughout sample analysis and all method performance criteria were met.

4.3.1 Internal Standard Calibration – PCBs and Organochlorine Pesticides

In order to quantify organic compounds of interest by GC, calibration of the gas chromatograph over a specific concentration range must be performed. Polychlorinated biphenyls (PCBs) and organochlorine pesticides were calibrated with a dual column analysis using internal standardization. Five peaks, representing five congeners, were used for the analysis of each Aroclor with a separate curve fitted to the calibration data for each congener. A calibration curve consisting of a minimum of five concentration levels was analyzed for all single component compounds of interest. Linearity of the calibration curves are evaluated against the following criteria:

i) The percent relative standard deviation (%RSD) values for the response factors (RF) must not exceed 20.0 percent

ii) A minimum correlation coefficient (R) or minimum coefficient of determination (R^2) of 0.99 if linear or quadratic equation calibration curves are used

Retention time windows are also calculated from the initial calibration analyses. These windows are then used to identify all compounds of interest in subsequent analyses.

All initial calibration standards were analyzed at the required frequencies. All retention time, peak resolution, and linearity criteria were satisfied as specified in the methods.

4.3.2 External Standard Calibration – Herbicides

In order to quantify organic compounds of interest by GC, calibration of the gas chromatograph over a specific concentration range must be performed. Initially, a calibration curve consisting of a minimum of five concentration levels is analyzed for all single component compounds of interest. Linearity of the calibration curve is acceptable if all RSD values are less than or equal to 20.0 percent or if the correlation coefficient (R) is 0.995 or greater for linear regression curves.

Retention time windows are also calculated from the initial calibration analyses. These windows are then used to identify all compounds of interest in subsequent analyses.

All initial calibration standards were analyzed at the required frequencies. All retention time, peak resolution, and linearity criteria were satisfied as specified in the methods.

5. Initial Calibration – Inorganic Analyses

Initial calibration of the instruments ensures that they are capable of producing satisfactory quantitative data at the beginning of a series of analyses. For ICP/MS analysis, a calibration blank and at least one standard must be analyzed at each wavelength to establish the analytical curve. For mercury atomic absorption (AA) analyses, a calibration blank and a minimum of five standards must be analyzed to establish the analytical curve, and resulting correlation coefficients (R) must be 0.995 or greater. For instrumental general chemistry analyses, a calibration blank and a minimum of five standards must be analyzed to establish the analytical curve, and resulting correlation coefficients (R) must be 0.995 or greater.

After the analyses of the calibration curves, an initial calibration verification (ICV) standard must be analyzed to verify the analytical accuracy of the calibration curves. All analyte recoveries from the analyses of the ICVs must be within the following control limits:

Analytical Method	Parameter	Control Limits
ICP/MS	Metals	90 - 110%
Cold Vapor AA	Mercury	80 - 120%
Instrumental General Chemistry	Cyanide, Total Organic Carbon	85 - 115% or laboratory acceptance criteria

Upon review of the data, it was determined that the calibration curves and ICVs were analyzed at the proper frequencies and that all of the above-specified criteria were met. The laboratory effectively demonstrated that the instrumentation used for metals and general chemistry analyses were properly calibrated prior to sample analysis.

6. Continuing Calibration - Organic Analyses

6.1 GC/MS

To ensure that instrument calibration for VOC and SVOC analyses is acceptable throughout the sample analysis period, continuing calibration standards must be analyzed and compared to the initial calibration curve every 12 hours.

The following criteria were employed to evaluate continuing calibration data:

i) All RRF values must be greater than or equal to 0.050 (greater than or equal to 0.010 for compounds that exhibit poor response)

ii) Percent difference (%D) values must not exceed 25.0 percent (40.0 percent for compounds that exhibit poor response)

Calibration standards were analyzed at the required frequency, and the results met the above criteria for instrument sensitivity and stability with the exception of the sample results presented with qualifiers in Table 5.

6.2 High Resolution GC/MS

To ensure that instrument calibration is acceptable throughout the sample analysis period, continuing calibration standards must be analyzed and compared to the initial calibration curve every 12 hours.

The following criteria were employed to evaluate continuing calibration data:

i) The percent difference (%D) for the relative response (RR) of congeners calibrated by isotope dilution must not exceed 25.0 percent

ii) The percent difference (%D) for the relative response factor (RRF) of congeners calibrated by internal standard must not exceed 35.0 percent

iii) The signal to noise ratio (S/N) must be ≥ 10 percent for all analytes and the ion abundance ratios must be within the method required window

Calibration standards were analyzed at the required frequency, and the results met the above criteria for instrument sensitivity and stability

6.3 GC

To ensure that the calibration of the instrument for organic analyses by GC is valid throughout the sample analysis period, continuing calibration standards are analyzed and evaluated on a regular basis. To evaluate the continued linearity of the calibration, %D values are calculated for each compound. As specified in the methods, all %D values should not exceed 15 percent. To ensure that compound retention times do not vary over the analysis period, all retention times for continuing calibration compounds must fall within the established retention time windows.

All continuing calibration standards were analyzed at the required frequency. All %D values and compound retention times met the above criteria indicating acceptable instrument calibration throughout the analysis period with the exception of the results presented with qualifiers in Table 5.

7. Continuing Calibration - Inorganic Analyses

To ensure that instrument calibration is acceptable throughout the sample analysis period, continuing calibration verification (CCV) standards are analyzed on a regular basis. Each CCV is deemed acceptable if all analyte recoveries are within the control limits specified above for the ICVs. If some of the CCV analyte recoveries are outside the control limits, samples analyzed before and after the CCV, up until the previous and proceeding CCV analyses, are affected.

For this study, CCVs were analyzed at the proper frequency. All analyte recoveries reported for the CCVs were within the specified limits.

8. Laboratory Blank Analyses

Method blanks are prepared from a purified matrix and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the analytical procedures. Additionally, initial and continuing calibration blanks (ICBs/CCBs) are routinely analyzed after each ICV/CCV for the inorganic parameters.

For this study, laboratory method blanks were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

8.1 Organic Analyses

Most method blank results were non-detect. Table 6 presents the sample results that were qualified as non-detect due to analyte concentrations in the method blanks.

8.2 Inorganic Analyses

ICBs, CCBs, and method blanks were reviewed. All results were either non-detect or were at a level that did not impact the associated sample results. Qualification of the sample data was not necessary on this basis.

9. Surrogate Spike Recoveries

In accordance with the methods employed, all samples, blanks, and QC samples analyzed for organics are spiked with surrogate compounds prior to sample extraction and/or analysis. Surrogate recoveries provide a means to evaluate the effects of laboratory performance on individual sample matrices.

All samples submitted for organic determinations were spiked with the appropriate number of surrogate compounds prior to sample extraction and/or analysis.

Each individual surrogate compound is expected to meet the laboratory control limits with the exception of SVOC analyses. According to the "Guidelines" for SVOC analyses, up to one outlying surrogate in the base/neutral or acid fractions is acceptable as long as the recovery is at least 10 percent.

Surrogate recoveries were assessed against laboratory control limits. Due to dilutions equal to or greater than 5 times that were necessary to successfully analyze the samples, numerous surrogate recoveries in investigative samples analyzed for pesticides, PCBs, and SVOCs were not assessed. Most remaining surrogate recoveries were within the laboratory criteria. Where surrogate recoveries were above the control limits, non-detect sample results were not impacted by the implied high bias and were not qualified. Detected sample results were qualified as estimated. Where surrogate recoveries were less than 10 percent, the associated non-detect sample results were rejected and the detected results were qualified as estimated. Table 7 presents the sample results that were qualified or rejected due to outlying surrogate recoveries.

10. Spiked C-13 Labeled PCDD/PCDF

In accordance with the method employed, all samples, blanks, and QC samples analyzed for PCDD/PCDF are spiked with labeled congeners prior to extraction to be an internal standard for the quantitation of native congeners, and to serve as surrogates for the assessment of method performance in the sample matrix.

All samples submitted for PCDD/PCDF determinations were spiked with the appropriate number of labeled compounds prior to sample extraction analysis.

Labeled congener recoveries were assessed against method control limits. All recoveries met the method criteria with the exception of the qualified sample results in Table 7.

11. Internal Standards (IS) Analyses

IS data were evaluated for all VOC, SVOC, PCB, Pesticide, and ICP/MS metals sample analyses.

11.1 Organics Analyses

To ensure that changes in the GC/MS and GC sensitivity and response do not affect sample analysis results IS compounds are added to each sample prior to analysis. All results are then calculated as a ratio of the IS responses.

The sample IS results were evaluated against the following criteria:

i) The retention time of the IS must not vary more than ±30 seconds from the associated calibration standard

ii) IS area counts must not vary by more than a factor of two (-50 percent to +100 percent) from the associated calibration standard

Most organic IS recoveries and retention times met the above criteria. Table 8 presents the sample results that were qualified or rejected due to outlying IS recoveries.

11.2 Inorganic Analyses

IS elements were added to all samples prior to metals analysis by ICP/MS. Overall instrument stability and performance for metals analyses were monitored using the IS intensity data. IS recoveries were assessed using control limits of 60-125 percent.

All inorganic IS recoveries were within the acceptance limits.

12. Cleanup Standard Recoveries-High Resolution GC/MS-PCDD/PCDF

Two C-13 labeled cleanup standards are added to all samples, blanks, and blank spike samples subsequent to extraction, but prior to the cleanup procedures to assess the efficiency of the cleanup procedures.

Cleanup standards were added to all samples and blanks prior to cleanup. All recoveries were within the method acceptable ranges.

13. Laboratory Control Sample Analyses

LCS or LCS/laboratory control sample duplicates (LCSD) are prepared and analyzed as samples to assess the analytical efficiencies of the methods employed, independent of sample matrix effects. The relative percent difference (RPD) of the LCS/LCSD recoveries is used to evaluate analytical precision.

For this study, LCS or LCS/LCSD were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

13.1 Organic Analyses

The LCS or LCS/LCSD contained all compounds of interest or the compounds specified in the method. Most LCS recoveries and RPDs were within the laboratory control limits demonstrating acceptable analytical accuracy and precision. Several VOC LCS recoveries were outside of the control limits. Table 9 presents the sample results that were qualified or rejected (<10 percent recovery) due to outlying LCS recoveries.

13.2 Inorganic Analyses

The LCS or LCS/LCSD contained all analytes of interest. LCS recoveries were assessed per the "Guidelines". All LCS recoveries and RPDs were within the control limits demonstrating acceptable analytical accuracy and precision.

14. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analyses

To evaluate the effects of sample matrices on the preparation process, measurement procedures, and accuracy of a particular analysis, samples are spiked with a known concentration of the analyte of concern and analyzed as MS/MSD samples. The RPD between the MS and MSD is used to assess analytical precision.

If the original sample concentration is significantly greater than the spike concentration, the recovery is not assessed.

If only the MS or MSD recovery was outside of control limits, no qualification of the data was performed based on the acceptable recovery of the companion spike and the acceptable RPD with the exception of any recoveries of <10 percent. All associated non-detect sample results were rejected and all positive results were qualified as estimated.

Due to dilutions that were necessary to successfully analyze the samples, some MS/MSD recoveries were not assessed.

MS/MSD analyses were performed as specified in Table 1.

14.1 Organic Analyses

The MS/MSD samples were spiked with all compounds of interest or the compounds specified in the method. Most percent recoveries and RPD values were within the laboratory control limits demonstrating acceptable analytical accuracy and precision. Table 10 presents the sample results that were qualified or rejected due to outlying MS/MSD recoveries and/or RPDs.

14.2 Inorganic Analyses

The MS or MS/MSD samples were spiked with the analytes of interest, and the results were evaluated using the "Guidelines". All percent recoveries and RPD values, if applicable, were within the control limits, demonstrating acceptable analytical accuracy and precision with the exception of the sample results that were rejected or qualified in Table 10.

15. Duplicate Sample Analyses – Inorganic Analyses

Analytical precision is evaluated based on the analysis of laboratory duplicate samples. For this study, duplicate samples were prepared and analyzed by the laboratory as specified in Table 1. The duplicate results were evaluated per the "Guidelines".

All duplicate analyses performed were acceptable, demonstrating acceptable analytical precision.

16. ICP/MS Serial Dilution

The serial dilution determines whether significant physical or chemical interferences exist due to sample matrix. A minimum of 1 per 20 investigative samples or at least 1 per analytical batch must be analyzed at a five-fold dilution. For samples with sufficient analyte concentrations (>50 times the method detection limit), the serial dilution results must agree within 10 percent of the original results.

A serial dilution was performed on each MS/MSD sample. Most results met the criteria above. Table 11 presents the qualified sample results.

17. ICP Interference Check Sample Analysis (ICS)

To verify that the laboratory has established proper inter-element and background correction factors, ICSs are analyzed. These samples contain high concentrations of aluminum, calcium, magnesium, and iron and are analyzed at the beginning and end of each sample analysis period. The ICSs are evaluated against recovery control limits in the "Guidelines" of 80 to 120 percent.

ICS analysis results were evaluated for all samples using the criteria in the "Guidelines". All ICS recoveries and results were acceptable.

18. Field QA/QC Samples

The field QA/QC consisted of 8 trip blank samples, 11 rinse blank samples, and 11 field duplicate sample sets.

18.1 Trip Blank Sample Analysis

To evaluate contamination from sample collection, transportation, storage, and analytical activities, 8 trip blank samples were submitted to the laboratory for VOC analysis. All results were non-detect for the compounds of interest or were at a level that did not impact the associated sample results.

18.2 Rinse Blank Sample Analysis

To assess field decontamination procedures, ambient conditions at the site, and cleanliness of sample containers, 11 rinse blank samples were submitted for analysis, as identified in Table 1. Most results were non-detect for the analytes of interest. Table 12 presents the sample results that were qualified as non-detect due to results that were similar to the rinse blank sample.

18.3 Field Duplicate Sample Analysis

To assess the analytical and sampling protocol precision, 11 field duplicate sample sets were collected and submitted "blind" to the laboratory, as specified in Table 1. The RPDs associated with these duplicate samples must be less than 100 percent for soil samples. If the reported concentration in either the investigative sample or its duplicate is less than five times the reporting limit (RL), the evaluation criterion is two times the RL value for soil samples.

Most field duplicate results were within acceptable agreement, demonstrating acceptable sampling and analytical precision. Table 13 presents the sample results that were qualified due to variability in the field duplicate results.

19. Analyte Reporting

The laboratory reported detected results down to the laboratory's method detection limit (MDL) for each analyte adjusted for specific sample dilutions, weights, and volumes. Positive analyte detections less than the RL but greater than the sample-specific MDL were qualified as estimated (J) in Table 2 unless qualified otherwise in this memorandum. Non-detect results were presented as non-detect at the sample specific MDL in Table 2.

All soil results were reported on a dry weight basis. All sample percent solids were greater than 50% with the exception of sample SS-38443-102618-JC-034. All associated sample results were qualified as estimated as the amount of moisture present can introduce analytical variability. (See Table 14).

20. Miscellaneous

20.1 Dual Column Reporting

GC analyses were performed using dual column analyses. In general, the results showed good correlation between the two columns (<40 RPD). Variability was observed between some of the results (see Table 15). The associated data were qualified as estimated (J) or presumptively identified and estimated (NJ) where RPD > 80 to reflect the indicated variability.

20.2 Identification of Dioxin/Furans

Numerous sample results for several samples for dioxin/furan analysis did not meet the identification criteria of the analytical method. Table 16 presents the qualified sample results.

20.3 Exceedance of Calibration Range

The 1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD) result for sample SS-38443-102618-JC-033 was qualified as estimated in Table 17 due to a response which exceeded the linear calibration for that compound. Based on the nature of the analytical method, sample dilutions are typically not performed.

21. Target Compound Identification

To minimize erroneous compound identification during organic analyses, qualitative criteria including compound retention time and mass spectra (if applicable) were evaluated according to the identification criteria established by the methods. The samples identified in Table 1 were reviewed. The organic compounds reported adhered to the specified identification criteria.

22. Conclusion

Based on the assessment detailed in the foregoing, the data summarized in Table 2 are acceptable with the specific exceptions and qualifications noted herein.

Table 1

Sample Collection and Analysis Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October - December 2018

Sample Identification	Location	Start Depth (ft bgs)	End Depth (ft bgs)	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters												Comments
							VOCs	SVOCs	Pesticides	PCBs	Herbicides	Dioxins & Furans	Select Metals	Fractionated Lead	Mercury	Total Organic Carbon	Hexavalent & Trivalent Cr	Cyanide	
SS-38443-102618-JC-105	SS-105	0	2	Soil	10/26/2018	10:30					X								
SS-38443-102618-JC-026	SS-26	0	2	Soil	10/26/2018	10:30	X	X	X	X		X	X		X	X	X	X	
SS-38443-102618-JC-027	SS-27	0	2	Soil	10/26/2018	10:40	X	X	X	X		X	X		X	X	X	X	
SS-38443-102618-JC-028	SS-28	0	2	Soil	10/26/2018	10:50	X	X	X	X		X	X	X	X	X	X	X	MS/MSD
SS-38443-102618-JC-033	SS-33	0	2	Soil	10/26/2018	11:15	X	X	X	X		X	X	X	X	X	X	X	
SS-38443-102618-JC-034	SS-34	0	2	Soil	10/26/2018	11:25	X	X	X	X		X	X		X	X	X	X	
SS-38443-102918-JC-130	SS-130	0	2	Soil	10/29/2018	11:05	X	X	X	X			X		X		X	X	MS/MSD
SS-38443-102918-JC-114	SS-130	0	2	Soil	10/29/2018	11:10	X	X	X	X			X		X		X	X	FD(SS-38443-102918-JC-130)
SS-38443-102918-JC-131	SS-131	0	2	Soil	10/29/2018	11:30	X	X	X	X			X	X	X		X	X	
SS-38443-102918-JC-141	SS-141	0	2	Soil	10/29/2018	11:33	X	X	X	X			X	X	X		X	X	
SS-38443-102918-JC-137	SS-137	0	2	Soil	10/29/2018	11:40	X	X	X	X			X		X		X	X	
SS-38443-102918-JC-143	SS-143	0	2	Soil	10/29/2018	11:42	X	X	X	X			X		X		X	X	
SS-38443-102918-JC-136	SS-136	0	2	Soil	10/29/2018	12:38	X	X	X	X			X	X	X		X	X	
SS-38443-102918-JC-125	SS-125	0	2	Soil	10/29/2018	12:38					X								
SS-38443-102918-JC-133	SS-133	0	2	Soil	10/29/2018	12:49	X	X	X	X			X		X		X	X	
RB-38443-102918-JC-001	-	-	-	Water	10/29/2018	13:00	X	X	X	X			X		X		X	X	Rinse Blank
SS-38443-102918-JC-135	SS-135	0	2	Soil	10/29/2018	13:25	X	X	X	X			X		X		X	X	
SS-38443-102918-JC-134	SS-134	0	2	Soil	10/29/2018	13:40	X	X	X	X			X		X		X	X	
SS-38443-102918-JC-050	SS-50	0	2	Soil	10/29/2018	13:45	X	X	X	X			X	X	X		X	X	
SS-38443-102918-JC-049	SS-49	0	2	Soil	10/29/2018	13:55	X	X	X	X			X		X		X	X	
SS-38443-102918-JC-052	SS-52	0	2	Soil	10/29/2018	13:55					X								MS/MSD
SS-38443-102918-JC-051	SS-51	0	2	Soil	10/29/2018	14:05	X	X	X	X			X		X		X	X	
SS-38443-102918-JC-048	SS-48	0	2	Soil	10/29/2018	14:16	X	X	X	X			X	X	X		X	X	
SS-38443-102918-JC-053	SS-53	0	2	Soil	10/29/2018	14:23	X	X	X	X			X		X		X	X	
SS-38443-102918-JC-055	SS-55	0	2	Soil	10/29/2018	14:30	X	X	X	X			X		X		X	X	

Table 1

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Moraine, Ohio
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							Analysis/Parameters											
Sample Identification	**Location**	**Start Depth (ft bgs)**	**End Depth (ft bgs)**	**Matrix**	**Collection Date (mm/dd/yyyy)**	**Collection Time (hr:min)**	**VOCs**	**SVOCs**	**Pesticides**	**PCBs**	**Herbicides**	**Dioxins & Furans**	**Select Metals**	**Fractionated Lead**	**Mercury**	**Total Organic Carbon**	**Hexavalent & Trivalent Cr**	**Cyanide**	**Comments**
SS-38443-102918-JC-115	SS-55	0	2	Soil	10/29/2018	14:35	X	X	X	X			X		X		X	X	FD(SS-38443-102918-JC-055); MS/MSD
TB-38443-102918-JC-044	-	-	-	Water	10/29/2018	-	X												Trip Blank
RB-38443-103018-JC-002	-	-	-	Water	10/30/2018	07:15	X	X	X	X			X		X		X	X	Rinse Blank
SS-38443-103018-JC-046	SS-46	0	2	Soil	10/30/2018	08:38	X	X	X	X			X		X		X	X	MS/MSD
SS-38443-103018-JC-061	SS-61	0	2	Soil	10/30/2018	08:51	X	X	X	X			X	X	X		X	X	
SS-38443-103018-JC-056	SS-56	0	2	Soil	10/30/2018	09:09	X	X	X	X			X		X		X	X	
SS-38443-103018-JC-057	SS-57	0	2	Soil	10/30/2018	09:14	X	X	X	X			X		X		X	X	
SS-38443-103018-JC-054	SS-54	0	2	Soil	10/30/2018	09:23	X	X	X	X			X		X		X	X	
SS-38443-103018-JC-117	SS-54	0	2	Soil	10/30/2018	09:30	X	X	X	X			X		X		X	X	FD(SS-38443-103018-JC-054)
SS-38443-103018-JC-060	SS-60	0	2	Soil	10/30/2018	09:49	X	X	X	X			X		X		X	X	
SS-38443-103018-JC-066	SS-66	0	2	Soil	10/30/2018	10:02	X	X	X	X			X	X	X		X	X	
SS-38443-103018-JC-067	SS-67	0	2	Soil	10/30/2018	10:13	X	X	X	X			X		X		X	X	
SS-38443-103018-JC-068	SS-68	0	2	Soil	10/30/2018	10:27	X	X	X	X			X		X		X	X	
SS-38443-103018-JC-063	SS-63	0	2	Soil	10/30/2018	10:57	X	X	X	X			X		X		X	X	
RB-38443-103018-JC-003	-	-	-	Water	10/30/2018	11:10	X	X	X	X			X		X		X	X	Rinse Blank
SS-38443-103018-JC-071	SS-71	0	2	Soil	10/30/2018	11:19	X	X	X	X			X		X		X	X	
SS-38443-103018-JC-070	SS-70	0	2	Soil	10/30/2018	11:24	X	X	X	X			X	X	X		X	X	
SS-38443-103018-JC-076	SS-76	0	2	Soil	10/30/2018	11:30	X	X	X	X			X		X		X	X	
SS-38443-103018-JC-074	SS-74	0	2	Soil	10/30/2018	11:38	X	X	X	X			X		X		X	X	
SS-38443-103018-JC-073	SS-73	0	2	Soil	10/30/2018	11:43	X	X	X	X			X		X		X	X	
SS-38443-103018-JC-059	SS-59	0	2	Soil	10/30/2018	13:34	X	X	X	X			X	X	X		X	X	
SS-38443-103018-JC-069	SS-69	0	2	Soil	10/30/2018	13:40	X	X	X	X			X		X		X	X	
SS-38443-103018-JC-064	SS-64	0	2	Soil	10/30/2018	13:45	X	X	X	X			X		X		X	X	MS/MSD
SS-38443-103018-JC-065	SS-65	0	2	Soil	10/30/2018	13:53	X	X	X	X			X		X		X	X	
SS-38443-103018-JC-118	SS-65	0	2	Soil	10/30/2018	13:55	X	X	X	X			X		X		X	X	FD(SS-38443-103018-JC-065)
SS-38443-103018-JC-075	SS-75	0	2	Soil	10/30/2018	14:33	X	X	X	X			X		X		X	X	
SS-38443-103018-JC-072	SS-72	0	2	Soil	10/30/2018	14:40	X	X	X	X			X	X	X		X	X	
RB-38443-103018-JC-004	-	-	-	Water	10/30/2018	15:05	X	X	X	X			X		X		X	X	Rinse Blank
SS-38443-103018-JC-077	SS-77	0	2	Soil	10/30/2018	14:33					X								
SS-38443-103018-JC-089	SS-89	0	2	Soil	10/30/2018	13:45					X								
SS-38443-103018-JC-094	SS-94	0	2	Soil	10/30/2018	13:34					X								
SS-38443-103018-JC-062	SS-62	0	2	Soil	10/30/2018	09:56	X	X	X	X			X		X		X	X	

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October - December 2018

Sample Identification	Location	Start Depth (ft bgs)	End Depth (ft bgs)	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters												Comments
							VOCs	SVOCs	Pesticides	PCBs	Herbicides	Dioxins & Furans	Select Metals	Fractionated Lead	Mercury	Total Organic Carbon	Hexavalent & Trivalent Cr	Cyanide	
TB-38443-103018-JC-045	-	-	-	Water	10/30/2018	-	X												Trip Blank
SS-38443-103118-JC-081	SS-81	0	2	Soil	10/31/2018	09:35	X	X	X	X			X	X	X		X	X	
SS-38443-103118-JC-032	SS-32	0	2	Soil	10/31/2018	09:38	X	X	X	X			X		X		X	X	
SS-38443-103118-JC-085	SS-85	0	2	Soil	10/31/2018	09:38					X								
SS-38443-103118-JC-087	SS-87	0	2	Soil	10/31/2018	09:42	X	X	X	X			X		X		X	X	
SS-38443-103118-JC-119	SS-87	0	2	Soil	10/31/2018	09:45	X	X	X	X			X		X		X	X	FD(SS-38443-103118-JC-087)
SS-38443-103118-JC-091	SS-91	0	2	Soil	10/31/2018	09:49	X	X	X	X			X		X		X	X	
SS-38443-103118-JC-088	SS-88	0	2	Soil	10/31/2018	09:49					X								
SS-38443-103118-JC-090	SS-90	0	2	Soil	10/31/2018	09:53	X	X	X	X			X		X		X	X	
SS-38443-103118-JC-084	SS-84	0	2	Soil	10/31/2018	09:56	X	X	X	X			X		X		X	X	
SS-38443-103118-JC-092	SS-92	0	2	Soil	10/31/2018	10:00	X	X	X	X			X		X		X	X	
SS-38443-103118-JC-093	SS-93	0	2	Soil	10/31/2018	10:03	X	X	X	X			X		X		X	X	
RB-38443-103118-JC-005	-	-	-	Water	10/31/2018	10:05	X	X	X	X			X		X		X	X	Rinse Blank
SS-38443-103118-JC-083	SS-83	0	2	Soil	10/31/2018	10:07	X	X	X	X			X		X		X	X	
SS-38443-103118-JC-082	SS-82	0	2	Soil	10/31/2018	10:12	X	X	X	X			X		X		X	X	
SS-38443-103118-JC-078	SS-78	0	2	Soil	10/31/2018	10:16	X	X	X	X			X		X		X	X	
SS-38443-103118-JC-079	SS-79	0	2	Soil	10/31/2018	10:19	X	X	X	X			X	X	X		X	X	
SS-38443-103118-JC-080	SS-80	0	2	Soil	10/31/2018	10:31	X	X	X	X			X		X		X	X	
TB-38443-103118-JC-046	-			Water	10/31/2018	-	X												Trip Blank
SS-38443-110218-JC-047	SS-47	0	2	Soil	11/02/2018	09:35	X	X	X	X			X		X		X	X	
SS-38443-110218-JC-099	SS-99	0	2	Soil	11/02/2018	09:55	X	X	X	X			X		X		X	X	MS/MSD
SS-38443-110218-JC-100	SS-100	0	2	Soil	11/02/2018	10:05	X	X	X	X			X	X	X		X	X	
SS-38443-110218-JC-121	SS-100	0	2	Soil	11/02/2018	10:10	X	X	X	X			X		X		X	X	FD(SS-38443-110218-JC-100)
SS-38443-110218-JC-101	SS-101	0	2	Soil	11/02/2018	10:20	X	X	X	X			X		X		X	X	
RB-38443-110218-JC-006	-	-	-	Water	11/02/2018	09:00	X	X	X	X			X		X		X	X	Rinse Blank
TB-38443-110218-JC-047	-	-	-	Water	11/02/2018	-	X												Trip Blank
SS-38443-111618-JC-111	SS-111 (SS-30/TT-38)	0	2	Soil	11/16/2018	14:15					X								
SS-38443-111618-JC-108	SS-108 (SS-22/TT-32)	0	2	Soil	11/16/2018	14:40					X								
SS-38443-111618-JC-113	SS-113 (SS-35/TP-15)	0	2	Soil	11/16/2018	15:30					X								MS/MSD
SS-38443-111918-JC-023	SS-23	0	2	Soil	11/19/2018	12:15	X	X	X	X			X	X	X		X	X	MS/MSD
SS-38443-111918-JC-107	SS-107	0	2	Soil	11/19/2018	12:15					X								
SS-38443-111918-JC-110	SS-110 (SS-31/TT39)	0	2	Soil	11/19/2018	12:50					X								
SS-38443-111918-JC-126	SS-110 (SS-31/TT39)	0	2	Soil	11/19/2018	13:00					X								FD(SS-38443-111918-JC-110)

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ITW Corporate-South Dayton Dump and Landfill
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Sample Identification	Location	Start Depth (ft bgs)	End Depth (ft bgs)	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters												Comments
							VOCs	SVOCs	Pesticides	PCBs	Herbicides	Dioxins & Furans	Select Metals	Fractionated Lead	Mercury	Total Organic Carbon	Hexavalent & Trivalent Cr	Cyanide	
SS-38443-111918-JC-021	SS-21	0	2	Soil	11/19/2018	13:50	X	X	X	X			X		X		X	X	MS/MSD
SS-38443-111918-JC-106	SS-106	0	2	Soil	11/19/2018	13:50					X								MS/MSD
RB-38443-112018-JC-007	-	-	-	Water	11/20/2018	09:30	X	X	X	X	X		X		X			X	Rinse Blank
TB-38443-112018-JC-048	-	-	-	Water	11/20/2018	-	X												Trip Blank
SS-38443-112018-JC-017	SS-17	0	2	Soil	11/20/2018	10:30	X	X	X	X			X		X		X	X	
SS-38443-112018-JC-018	SS-18	0	2	Soil	11/20/2018	10:50	X	X	X	X			X		X		X	X	
SS-38443-112018-JC-152	SS-152	0	2	Soil	11/20/2018	10:50					X								
SS-38443-112018-JC-015	SS-15	0	2	Soil	11/20/2018	11:15	X	X	X	X			X	X	X		X	X	
SS-38443-112018-JC-016	SS-16	0	2	Soil	11/20/2018	11:35	X	X	X	X			X		X		X	X	
SS-38443-112018-JC-148	SS-148	0	2	Soil	11/20/2018	11:35					X								
SS-38443-112018-JC-014	SS-14	0	2	Soil	11/20/2018	11:45	X	X	X	X			X		X		X	X	
SS-38443-112018-JC-037	SS-37	0	2	Soil	11/20/2018	13:35	X	X	X	X			X		X		X	X	
SS-38443-112018-JC-038	SS-38	0	2	Soil	11/20/2018	13:45	X	X	X	X			X		X		X	X	
SS-38443-112018-JC-041	SS-41	0	2	Soil	11/20/2018	13:45					X								
SS-38443-112018-JC-040	SS-40	0	2	Soil	11/20/2018	13:50	X	X	X	X			X		X		X	X	MS/MSD
SS-38443-112018-JC-122	SS-122	0	2	Soil	11/20/2018	13:50					X								MS/MSD
RB-38443-112718-AS-008	-	-	-	Water	11/27/2018	08:00	X	X	X	X	X		X		X			X	Rinse Blank
TB-38443-112718-AS-049	-	-	-	Water	11/27/2018	-	X												Trip Blank
SS-38443-112718-AS-043	SS-43	0	2	Soil	11/27/2018	09:30	X	X	X	X			X		X		X	X	
SS-38443-112718-AS-044	SS-44	0	2	Soil	11/27/2018	09:40	X	X	X	X			X	X	X		X	X	
SS-38443-112718-AS-045	SS-45	0	2	Soil	11/27/2018	09:50	X	X	X	X			X		X		X	X	MS/MSD
SS-38443-112718-AS-124	SS-124	0	2	Soil	11/27/2018	09:50					X								
SS-38443-112718-AS-042	SS-42	0	2	Soil	11/27/2018	10:05	X	X	X	X			X	X	X		X	X	
RB-38443-120718-JC-009	-	-	-	Water	12/07/2018	08:35		X					X		X				Rinse Blank
SS-38443-120718-JC-209	SS-209	0	2	Soil	12/07/2018	10:50		X					X		X				
SS-38443-120718-JC-210	SS-210	0	2	Soil	12/07/2018	10:40		X					X		X				
SS-38443-120718-JC-211	SS-211	0	2	Soil	12/07/2018	09:50		X					X		X				
SS-38443-120718-JC-212	SS-212	0	2	Soil	12/07/2018	09:40		X					X		X				
SS-38443-120718-JC-213	SS-213	0	2	Soil	12/07/2018	09:20		X					X		X				
SS-38443-120718-JC-214	SS-214	0	2	Soil	12/07/2018	09:10		X					X		X				
SS-38443-120718-JC-215	SS-215	0	2	Soil	12/07/2018	09:00		X					X		X				
SS-38443-120718-JC-216	SS-216	0	2	Soil	12/07/2018	09:45		X					X		X				
SS-38443-120718-JC-217	SS-211	0	2	Soil	12/07/2018	09:50		X					X		X				FD(SS-38443-120718-JC-211)

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Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October - December 2018

							Analysis/Parameters											
Sample Identification	**Location**	**Start Depth (ft bgs)**	**End Depth (ft bgs)**	**Matrix**	**Collection Date (mm/dd/yyyy)**	**Collection Time (hr:min)**	**VOCs**	**SVOCs**	**Pesticides**	**PCBs**	**Herbicides**	**Dioxins & Furans**	**Select Metals**	**Fractionated Lead**	**Mercury**	**Total Organic Carbon**	**Hexavalent & Trivalent Cr**	**Cyanide**	**Comments**
SS-38443-121018-JC-208	SS-208	0	0.5	Soil	12/10/2018	10:25	X	X	X	X	X		X		X			X	MS/MSD
SS-38443-121018-JC-225	SS-208	0.5	2	Soil	12/10/2018	10:30	X	X	X	X	X		X		X			X	
SS-38443-121018-JC-199	SS-208	0.5	2	Soil	12/10/2018	10:32	X	X	X	X	X		X		X			X	FD(SS-38443-121018-JC-225)
SS-38443-121018-JC-207	SS-207	0	0.5	Soil	12/10/2018	10:40	X	X	X	X	X		X		X			X	MS/MSD
SS-38443-121018-JC-224	SS-207	0.5	2	Soil	12/10/2018	10:45	X	X	X	X	X		X		X			X	
RB-38443-121018-JC-010	-	-	-	Water	12/10/2018	10:48	X	X	X	X	X		X		X			X	Rinse Blank
TB-38443-121018-JC-050	-	-	-	Water	12/10/2018	-	X												Trip Blank
SS-38443-121018-JC-206	SS-206	0	0.5	Soil	12/10/2018	10:50	X	X	X	X	X		X		X			X	
SS-38443-121018-JC-223	SS-206	0.5	2	Soil	12/10/2018	10:55	X	X	X	X	X		X		X			X	
SS-38443-121018-JC-205	SS-205	0	0.5	Soil	12/10/2018	11:30	X	X	X	X	X		X		X			X	
SS-38443-121018-JC-222	SS-205	0.5	2	Soil	12/10/2018	11:35	X	X	X	X	X		X		X			X	
SS-38443-121018-JC-204	SS-204	0	0.5	Soil	12/10/2018	11:40	X	X	X	X	X		X		X			X	
SS-38443-121018-JC-221	SS-204	0.5	2	Soil	12/10/2018	11:45	X	X	X	X	X		X		X			X	
SS-38443-121018-JC-200	SS-204	0.5	2	Soil	12/10/2018	11:47	X	X	X	X	X		X		X			X	FD(SS-38443-121018-JC-221)
SS-38443-121018-JC-203	SS-203	0	0.5	Soil	12/10/2018	11:50	X	X	X	X	X		X		X			X	
SS-38443-121018-JC-220	SS-203	0.5	2	Soil	12/10/2018	11:55	X	X	X	X	X		X		X			X	MS/MSD
SS-38443-121018-JC-202	SS-202	0	0.5	Soil	12/10/2018	12:10	X	X	X	X	X		X		X			X	
SS-38443-121018-JC-219	SS-202	0.5	2	Soil	12/10/2018	12:15	X	X	X	X	X		X		X			X	
SS-38443-121018-JC-201	SS-201	0	0.5	Soil	12/10/2018	12:20	X	X	X	X	X		X		X			X	
SS-38443-121018-JC-218	SS-201	0.5	2	Soil	12/10/2018	12:25	X	X	X	X	X		X		X			X	MS/MSD
S-38443-121418-JC-150	BH98-18	2	5.5	Soil	12/14/2018	10:30	X	X	X	X			X		X		X	X	
S-38443-121418-JC-151	BH99-18	6	9.5	Soil	12/14/2018	12:30	X	X	X	X			X		X		X	X	
S-38443-121418-JC-152	BH100-18	4	7.5	Soil	12/14/2018	13:00	X	X	X	X			X		X		X	X	
SS-38443-122018-JC-004	SS-4	0	2	Soil	12/20/2018	09:15	X	X	X	X			X		X		X	X	
SS-38443-122018-JC-096	SS-96	0	2	Soil	12/20/2018	09:15					X								
SS-38443-122018-JC-005	SS-5	0	2	Soil	12/20/2018	09:20	X	X	X	X			X		X		X	X	
SS-38443-122018-JC-226	SS-5	0	2	Soil	12/20/2018	09:25	X	X	X	X			X		X		X	X	FD(SS-38443-122018-JC-005)
SS-38443-122018-JC-006	SS-6	0	2	Soil	12/20/2018	09:30	X	X	X	X			X	X	X		X	X	
SS-38443-122018-JC-097	SS-97	0	2	Soil	12/20/2018	09:30					X								

Table 1

Sample Collection and Analysis Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October - December 2018

Sample Identification	Location	Start Depth (ft bgs)	End Depth (ft bgs)	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters												Comments
							VOCs	SVOCs	Pesticides	PCBs	Herbicides	Dioxins & Furans	Select Metals	Fractionated Lead	Mercury	Total Organic Carbon	Hexavalent & Trivalent Cr	Cyanide	
SS-38443-122018-JC-007	SS-7	0	2	Soil	12/20/2018	09:50	X	X	X	X			X		X		X	X	MS/MSD
SS-38443-122018-JC-008	SS-8	0	2	Soil	12/20/2018	10:00	X	X	X	X			X	X	X		X	X	
SS-38443-122018-JC-127	SS-127	0	2	Soil	12/20/2018	10:00					X								
SS-38443-122018-JC-009	SS-9	0	2	Soil	12/20/2018	10:20	X	X	X	X			X		X		X	X	
SS-38443-122018-JC-128	SS-128	0	2	Soil	12/20/2018	10:20					X								
SS-38443-122018-JC-010	SS-10	0	2	Soil	12/20/2018	10:30	X	X	X	X			X	X	X		X	X	
SS-38443-122018-JC-011	SS-11	0	2	Soil	12/20/2018	10:45	X	X	X	X			X		X		X	X	
SS-38443-122018-JC-129	SS-129	0	2	Soil	12/20/2018	10:45					X								
SS-38443-122018-JC-095	SS-95	0	2	Soil	12/20/2018	14:30					X								
RB-38443-122018-JC-011	-	-	-	Water	12/20/2018	10:10	X	X	X	X	X		X		X			X	Rinse Blank
TB-38443-122018-JC-051	-	-	-	Water	12/20/2018	-													Trip Blank

Notes:

-	- Not applicable
FD	- Field Duplicate sample of sample in parentheses
ft bgs	- Feet below ground surface
MS/MSD	- Matrix Spike/Matrix Spike Duplicate
PCBs	- Polychlorinated Biphenyls
SVOCs	- Semi-volatile Organic Compounds
VOCs	- Volatile Organic Compounds

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**BH98-18**	**BH99-18**	**BH100-18**
	Sample Name:	**S-38443-121418-JC-150**	**S-38443-121418-JC-151**	**S-38443-121418-JC-152**
	Sample Date:	**12/14/2018**	**12/14/2018**	**12/14/2018**
	Depth:	**2-5.5 ft BGS**	**6-9.5 ft BGS**	**4-7.5 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/kg	0.85 U	0.76 U	0.87 U
1,1,2,2-Tetrachloroethane	µg/kg	1.5 U	1.3 U	1.5 UJ
1,1,2-Trichloroethane	µg/kg	1.2 U	1.1 U	1.2 U
1,1-Dichloroethane	µg/kg	0.72 U	0.64 U	0.74 U
1,1-Dichloroethene	µg/kg	0.93 U	0.84 U	0.96 U
1,2,4-Trichlorobenzene	µg/kg	0.59 U	0.53 U	0.61 UJ
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	3.7 U	3.4 U	3.8 UJ
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	0.80 U	0.72 U	0.82 U
1,2-Dichlorobenzene	µg/kg	1.1 U	1.0 U	1.2 UJ
1,2-Dichloroethane	µg/kg	0.80 U	0.72 U	0.82 U
1,2-Dichloropropane	µg/kg	0.88 U	0.79 U	0.91 U
1,3-Dichlorobenzene	µg/kg	0.84 U	0.76 U	0.87 UJ
1,4-Dichlorobenzene	µg/kg	0.91 U	0.82 U	0.94 UJ
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	3.7 U	3.3 U	7.2 J
2-Hexanone	µg/kg	4.2 U	3.8 U	4.3 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	3.8 U	3.4 U	4.0 U
Acetone	µg/kg	22 U	23	22 U
Benzene	µg/kg	0.72 U	0.65 U	0.74 U
Bromodichloromethane	µg/kg	0.70 U	0.63 U	0.72 U
Bromoform	µg/kg	2.5 U	2.2 U	2.6 U
Bromomethane (Methyl bromide)	µg/kg	1.0 UJ	0.92 UJ	1.1 UJ
Carbon disulfide	µg/kg	1.2 U	1.1 U	1.2 U
Carbon tetrachloride	µg/kg	3.4 U	3.0 U	3.5 U
Chlorobenzene	µg/kg	0.95 U	0.85 U	0.97 U
Chloroethane	µg/kg	1.3 U	1.1 U	1.3 U
Chloroform (Trichloromethane)	µg/kg	0.81 U	0.73 U	0.84 U
Chloromethane (Methyl chloride)	µg/kg	1.1 U	0.97 U	1.1 U
cis-1,2-Dichloroethene	µg/kg	0.67 U	0.60 U	0.69 U
cis-1,3-Dichloropropene	µg/kg	1.5 U	1.3 U	1.5 U
Cyclohexane	µg/kg	1.4 U	1.3 U	1.5 U
Dibromochloromethane	µg/kg	2.9 U	2.6 U	3.0 U
Dichlorodifluoromethane (CFC-12)	µg/kg	0.98 U	0.88 U	1.0 U
Ethylbenzene	µg/kg	1.1 U	0.97 U	1.1 U
Isopropyl benzene	µg/kg	0.86 U	0.77 U	0.89 U
Methyl acetate	µg/kg	3.5 U	3.2 U	3.6 U
Methyl cyclohexane	µg/kg	1.3 U	1.1 U	1.3 U
Methyl tert butyl ether (MTBE)	µg/kg	0.85 U	0.76 U	0.87 U
Methylene chloride	µg/kg	12 U	11 U	13 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**BH98-18**	**BH99-18**	**BH100-18**
	Sample Name:	**S-38443-121418-JC-150**	**S-38443-121418-JC-151**	**S-38443-121418-JC-152**
	Sample Date:	**12/14/2018**	**12/14/2018**	**12/14/2018**
	Depth:	**2-5.5 ft BGS**	**6-9.5 ft BGS**	**4-7.5 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
Styrene	µg/kg	1.2 U	1.1 U	1.2 U
Tetrachloroethene	µg/kg	0.75 U	0.68 U	0.78 U
Toluene	µg/kg	0.80 U	1.1 J	0.82 U
trans-1,2-Dichloroethene	µg/kg	0.48 U	0.43 U	0.49 U
trans-1,3-Dichloropropene	µg/kg	1.1 U	0.96 U	1.1 U
Trichloroethene	µg/kg	0.65 U	0.59 U	0.67 U
Trichlorofluoromethane (CFC-11)	µg/kg	1.1 U	1.0 U	1.1 U
Trifluorotrichloroethane (CFC-113)	µg/kg	1.3 U	1.2 U	1.4 U
Vinyl chloride	µg/kg	0.87 U	0.78 U	0.89 U
Xylenes (total)	µg/kg	1.6 U	1.5 U	1.7 U
Semivolatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	12 U	11 U	11 U
2,4,5-Trichlorophenol	µg/kg	80 U	74 U	78 U
2,4,6-Trichlorophenol	µg/kg	74 U	69 U	73 U
2,4-Dichlorophenol	µg/kg	51 U	47 U	50 U
2,4-Dimethylphenol	µg/kg	46 U	43 U	45 U
2,4-Dinitrophenol	µg/kg	160 U	150 U	160 U
2,4-Dinitrotoluene	µg/kg	72 U	66 U	70 U
2,6-Dinitrotoluene	µg/kg	65 U	60 U	64 U
2-Chloronaphthalene	µg/kg	16 U	15 U	16 U
2-Chlorophenol	µg/kg	12 U	11 U	11 U
2-Methylnaphthalene	µg/kg	2.3 U	2.1 U	23
2-Methylphenol	µg/kg	36 U	33 U	35 U
2-Nitroaniline	µg/kg	46 U	43 U	45 U
2-Nitrophenol	µg/kg	15 U	14 U	15 U
3&4-Methylphenol	µg/kg	33 U	31 U	33 U
3,3'-Dichlorobenzidine	µg/kg	50 U	46 U	49 U
3-Nitroaniline	µg/kg	57 U	53 U	56 U
4,6-Dinitro-2-methylphenol	µg/kg	92 U	86 U	91 U
4-Bromophenyl phenyl ether	µg/kg	16 U	15 U	16 U
4-Chloro-3-methylphenol	µg/kg	52 U	48 U	51 U
4-Chloroaniline	µg/kg	35 U	32 U	34 U
4-Chlorophenyl phenyl ether	µg/kg	16 U	15 U	16 U
4-Nitroaniline	µg/kg	69 U	64 U	68 U
4-Nitrophenol	µg/kg	110 U	100 U	110 U
Acenaphthene	µg/kg	3.3 U	3.1 U	3.3 U
Acenaphthylene	µg/kg	4.6 U	4.3 U	4.6 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**BH98-18**	**BH99-18**	**BH100-18**
	Sample Name:	**S-38443-121418-JC-150**	**S-38443-121418-JC-151**	**S-38443-121418-JC-152**
	Sample Date:	**12/14/2018**	**12/14/2018**	**12/14/2018**
	Depth:	**2-5.5 ft BGS**	**6-9.5 ft BGS**	**4-7.5 ft BGS**
Parameters	**Unit**			
Semivolatile Organic Compounds				
Acetophenone	µg/kg	13 U	12 U	13 U
Anthracene	µg/kg	4.2 J	2.6 U	2.7 U
Atrazine	µg/kg	42 U	39 U	41 U
Benzaldehyde	µg/kg	27 U	25 U	26 U
Benzo(a)anthracene	µg/kg	24	3.7 U	3.9 U
Benzo(a)pyrene	µg/kg	29	16	31
Benzo(b)fluoranthene	µg/kg	46	7.0 U	40
Benzo(g,h,i)perylene	µg/kg	8.2 U	7.6 U	33
Benzo(k)fluoranthene	µg/kg	17	7.4 U	7.9 U
Biphenyl (1,1-Biphenyl)	µg/kg	20 U	18 U	19 U
bis(2-Chloroethoxy)methane	µg/kg	14 U	13 U	14 U
bis(2-Chloroethyl)ether	µg/kg	14 U	13 U	14 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	59 U	55 U	58 U
Butyl benzylphthalate (BBP)	µg/kg	25 U	24 U	25 U
Caprolactam	µg/kg	87 U	80 U	85 U
Carbazole	µg/kg	22 U	20 U	22 U
Chrysene	µg/kg	28	1.6 U	1.7 U
Di-n-butylphthalate (DBP)	µg/kg	25 U	24 U	25 U
Di-n-octyl phthalate (DnOP)	µg/kg	32 U	30 U	32 U
Dibenz(a,h)anthracene	µg/kg	8.0 U	7.4 U	7.9 U
Dibenzofuran	µg/kg	15 U	14 U	15 U
Diethyl phthalate	µg/kg	36 U	33 U	35 U
Dimethyl phthalate	µg/kg	16 U	15 U	16 U
Fluoranthene	µg/kg	47	13 J	28
Fluorene	µg/kg	3.2 U	2.9 U	3.1 U
Hexachlorobenzene	µg/kg	3.3 U	3.1 UJ	3.2 UJ
Hexachlorobutadiene	µg/kg	14 U	13 U	14 U
Hexachlorocyclopentadiene	µg/kg	72 U	66 UJ	70 UJ
Hexachloroethane	µg/kg	10 U	9.6 U	10 U
Indeno(1,2,3-cd)pyrene	µg/kg	8.5 U	7.9 U	29
Isophorone	µg/kg	14 U	13 U	14 U
N-Nitrosodi-n-propylamine	µg/kg	13 U	12 U	13 U
N-Nitrosodiphenylamine	µg/kg	14 U	13 U	14 U
Naphthalene	µg/kg	2.8 U	2.6 U	17
Nitrobenzene	µg/kg	15 U	14 U	15 U
Pentachlorophenol	µg/kg	67 U	62 U	66 U
Phenanthrene	µg/kg	29	2.4 U	2.5 U
Phenol	µg/kg	9.2 U	8.6 U	9.1 U
Pyrene	µg/kg	38	16	34

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**BH98-18**	**BH99-18**	**BH100-18**
	Sample Name:	**S-38443-121418-JC-150**	**S-38443-121418-JC-151**	**S-38443-121418-JC-152**
	Sample Date:	**12/14/2018**	**12/14/2018**	**12/14/2018**
	Depth:	**2-5.5 ft BGS**	**6-9.5 ft BGS**	**4-7.5 ft BGS**
Parameters	**Unit**			
Herbicides				
2,4,5-T	µg/kg	--	--	--
2,4,5-TP (Silvex)	µg/kg	--	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/kg	--	--	--
PCBs				
Aroclor-1016 (PCB-1016)	µg/kg	25 U	24 U	26 U
Aroclor-1221 (PCB-1221)	µg/kg	27 U	26 U	28 U
Aroclor-1232 (PCB-1232)	µg/kg	26 U	25 U	27 U
Aroclor-1242 (PCB-1242)	µg/kg	21 U	21 U	22 U
Aroclor-1248 (PCB-1248)	µg/kg	27 U	26 U	28 U
Aroclor-1254 (PCB-1254)	µg/kg	26 U	25 U	27 U
Aroclor-1260 (PCB-1260)	µg/kg	25 U	24 U	26 U
Pesticides				
4,4'-DDD	µg/kg	1.7 U	1.6 U	1.7 U
4,4'-DDE	µg/kg	1.8 U	1.6 U	1.8 U
4,4'-DDT	µg/kg	1.3 U	1.5 J	1.3 U
Aldrin	µg/kg	0.90 U	0.83 U	0.90 U
alpha-BHC	µg/kg	1.1 U	0.98 U	1.1 U
alpha-Chlordane	µg/kg	1.8 U	1.6 U	1.7 U
beta-BHC	µg/kg	2.0 U	1.9 U	2.0 U
delta-BHC	µg/kg	2.0 U	1.8 U	2.0 U
Dieldrin	µg/kg	1.3 U	1.2 U	1.3 U
Endosulfan I	µg/kg	1.4 U	1.3 U	1.4 U
Endosulfan II	µg/kg	1.7 U	1.6 U	1.7 U
Endosulfan sulfate	µg/kg	1.5 U	1.4 U	1.5 U
Endrin	µg/kg	2.2 U	2.1 U	2.2 U
Endrin aldehyde	µg/kg	1.5 U	1.4 U	1.5 U
Endrin ketone	µg/kg	1.0 U	0.96 U	1.0 U
gamma-BHC (lindane)	µg/kg	2.1 U	1.9 U	2.1 U
gamma-Chlordane	µg/kg	1.4 U	1.3 U	1.4 U
Heptachlor	µg/kg	1.9 U	1.7 U	1.8 U
Heptachlor epoxide	µg/kg	1.7 U	1.6 U	1.7 U
Methoxychlor	µg/kg	7.7 U	7.1 U	7.6 U
Toxaphene	µg/kg	29 U	27 U	29 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**BH98-18**	**BH99-18**	**BH100-18**
	Sample Name:	**S-38443-121418-JC-150**	**S-38443-121418-JC-151**	**S-38443-121418-JC-152**
	Sample Date:	**12/14/2018**	**12/14/2018**	**12/14/2018**
	Depth:	**2-5.5 ft BGS**	**6-9.5 ft BGS**	**4-7.5 ft BGS**
Parameters	**Unit**			
Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs)				
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
Total heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
Total hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
Total pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
Total tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Metals				
Aluminum	mg/kg	9400	8500	14000
Antimony	mg/kg	0.56	0.18 J	0.38
Arsenic	mg/kg	7.8	7.2	10
Barium	mg/kg	94	72	100
Beryllium	mg/kg	0.48	0.42	0.71
Cadmium	mg/kg	0.26	0.21	0.48
Calcium	mg/kg	47000	56000	29000
Chromium	mg/kg	16	13	20
Chromium III (trivalent)	mg/kg	16	13	20
Chromium VI (hexavalent)	mg/kg	0.29 J	0.26 U	0.28 U
Cobalt	mg/kg	6.5	5.6	8.8

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**BH98-18**	**BH99-18**	**BH100-18**
	Sample Name:	**S-38443-121418-JC-150**	**S-38443-121418-JC-151**	**S-38443-121418-JC-152**
	Sample Date:	**12/14/2018**	**12/14/2018**	**12/14/2018**
	Depth:	**2-5.5 ft BGS**	**6-9.5 ft BGS**	**4-7.5 ft BGS**
Parameters	**Unit**			
Metals				
Copper	mg/kg	15	12	31
Iron	mg/kg	17000	15000	22000
Lead	mg/kg	20	14	46
Lead - coarse fraction	mg/kg	--	--	--
Lead - fine fraction	mg/kg	--	--	--
Lead - total (calculated by fine/coarse fraction)	mg/kg	--	--	--
Magnesium	mg/kg	27000	33000	11000
Manganese	mg/kg	610	450	510
Mercury	mg/kg	0.025 J	0.031 J	0.045 J
Nickel	mg/kg	15	13	19
Potassium	mg/kg	850	920	1300
Selenium	mg/kg	0.27 J	0.16 J	0.43 J
Silver	mg/kg	0.052 J	0.044 J	0.10 J
Sodium	mg/kg	85 J	110 J	67 J
Thallium	mg/kg	0.071 J	0.071 J	0.10
Vanadium	mg/kg	27	25	35
Zinc	mg/kg	57	44	120
General Chemistry				
Cyanide (total)	mg/kg	0.24 U	0.21 U	0.21 U
Soot carbon	mg/kg	--	--	--
Total organic carbon (TOC)	mg/kg	--	--	--

Notes:

R - Rejected
J - Estimated concentration
U - Not detected at the associated reporting limit
-- - Not applicable
UJ - Not detected; associated reporting limit is detected
PCBs - Polychlorinated Biphenyls

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-4**	**SS-5**	**SS-5**
	Sample Name:	**SS-38443-122018-JC-004**	**SS-38443-122018-JC-005**	**SS-38443-122018-JC-226**
	Sample Date:	**12/20/2018**	**12/20/2018**	**12/20/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
				Duplicate
Parameters	**Unit**			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/kg	1.0 U	0.85 U	0.91 U
1,1,2,2-Tetrachloroethane	µg/kg	1.7 U	1.5 U	1.6 U
1,1,2-Trichloroethane	µg/kg	1.4 U	1.2 U	1.3 U
1,1-Dichloroethane	µg/kg	0.84 U	0.72 U	0.77 U
1,1-Dichloroethene	µg/kg	1.1 U	0.94 U	1.0 U
1,2,4-Trichlorobenzene	µg/kg	0.70 U	0.59 U	0.63 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	4.4 U	3.7 U	4.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	0.94 U	0.80 U	0.85 U
1,2-Dichlorobenzene	µg/kg	1.4 U	1.2 U	1.2 U
1,2-Dichloroethane	µg/kg	0.94 U	0.80 U	0.85 U
1,2-Dichloropropane	µg/kg	1.0 U	0.88 U	0.94 U
1,3-Dichlorobenzene	µg/kg	0.99 U	0.85 U	0.90 U
1,4-Dichlorobenzene	µg/kg	1.1 U	0.91 U	0.98 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	4.3 U	3.7 U	3.9 U
2-Hexanone	µg/kg	5.0 U	4.2 U	4.5 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	4.5 U	3.9 U	4.1 U
Acetone	µg/kg	26 U	22 U	23 U
Benzene	µg/kg	0.85 U	0.72 U	0.77 U
Bromodichloromethane	µg/kg	0.83 U	0.70 U	0.75 U
Bromoform	µg/kg	2.9 U	2.5 U	2.7 U
Bromomethane (Methyl bromide)	µg/kg	1.2 U	1.0 U	1.1 U
Carbon disulfide	µg/kg	1.4 U	1.2 U	1.3 U
Carbon tetrachloride	µg/kg	4.0 U	3.4 U	3.6 U
Chlorobenzene	µg/kg	1.1 U	0.95 U	1.0 U
Chloroethane	µg/kg	1.5 U	1.3 U	1.3 U
Chloroform (Trichloromethane)	µg/kg	0.96 U	0.82 U	0.87 U
Chloromethane (Methyl chloride)	µg/kg	1.3 U	1.1 U	1.2 U
cis-1,2-Dichloroethene	µg/kg	0.79 U	0.68 U	0.72 U
cis-1,3-Dichloropropene	µg/kg	1.7 U	1.5 U	1.6 U
Cyclohexane	µg/kg	1.7 U	1.4 U	1.5 U
Dibromochloromethane	µg/kg	3.4 U	2.9 U	3.1 U
Dichlorodifluoromethane (CFC-12)	µg/kg	1.1 U	0.98 U	1.0 U
Ethylbenzene	µg/kg	1.3 U	1.1 U	1.2 U
Isopropyl benzene	µg/kg	1.0 U	0.86 U	0.92 U
Methyl acetate	µg/kg	4.1 U	3.5 U	3.8 U
Methyl cyclohexane	µg/kg	1.5 U	1.3 U	1.4 U
Methyl tert butyl ether (MTBE)	µg/kg	1.0 U	0.85 U	0.91 U
Methylene chloride	µg/kg	15 U	12 U	13 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-4**	**SS-5**	**SS-5**
	Sample Name:	**SS-38443-122018-JC-004**	**SS-38443-122018-JC-005**	**SS-38443-122018-JC-226**
	Sample Date:	**12/20/2018**	**12/20/2018**	**12/20/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
				Duplicate
Parameters	**Unit**			
Volatile Organic Compounds				
Styrene	µg/kg	1.4 U	1.2 U	1.3 U
Tetrachloroethene	µg/kg	1.5 J	0.76 U	0.81 U
Toluene	µg/kg	0.94 U	0.80 U	0.86 U
trans-1,2-Dichloroethene	µg/kg	0.57 U	0.48 U	0.51 U
trans-1,3-Dichloropropene	µg/kg	1.3 U	1.1 U	1.1 U
Trichloroethene	µg/kg	0.77 U	0.89 J	1.4 J
Trichlorofluoromethane (CFC-11)	µg/kg	1.3 U	1.1 U	1.2 U
Trifluorotrichloroethane (CFC-113)	µg/kg	1.6 U	1.3 U	1.4 U
Vinyl chloride	µg/kg	1.0 U	0.87 U	0.93 U
Xylenes (total)	µg/kg	1.9 U	1.6 U	1.8 U
Semivolatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	13 U	24 U	11 U
2,4,5-Trichlorophenol	µg/kg	87 U	170 U	76 U
2,4,6-Trichlorophenol	µg/kg	80 U	150 U	71 U
2,4-Dichlorophenol	µg/kg	55 U	110 U	48 U
2,4-Dimethylphenol	µg/kg	50 U	96 U	44 U
2,4-Dinitrophenol	µg/kg	180 U	340 U	160 U
2,4-Dinitrotoluene	µg/kg	78 U	150 U	68 U
2,6-Dinitrotoluene	µg/kg	70 U	130 U	62 U
2-Chloronaphthalene	µg/kg	18 U	34 U	15 U
2-Chlorophenol	µg/kg	13 U	24 U	11 U
2-Methylnaphthalene	µg/kg	17 J	33 J	29
2-Methylphenol	µg/kg	39 U	74 U	34 U
2-Nitroaniline	µg/kg	50 U	96 U	44 U
2-Nitrophenol	µg/kg	16 U	31 U	14 U
3&4-Methylphenol	µg/kg	36 U	70 U	32 U
3,3'-Dichlorobenzidine	µg/kg	54 U	100 U	47 U
3-Nitroaniline	µg/kg	61 U	120 U	54 U
4,6-Dinitro-2-methylphenol	µg/kg	100 U	190 U	88 U
4-Bromophenyl phenyl ether	µg/kg	18 U	34 U	15 U
4-Chloro-3-methylphenol	µg/kg	56 U	110 U	50 U
4-Chloroaniline	µg/kg	38 U	72 U	33 U
4-Chlorophenyl phenyl ether	µg/kg	18 U	34 U	15 U
4-Nitroaniline	µg/kg	75 U	140 U	66 U
4-Nitrophenol	µg/kg	120 U	230 U	100 U
Acenaphthene	µg/kg	17 J	61	33
Acenaphthylene	µg/kg	10 J	27 J	13 J

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-4**	**SS-5**	**SS-5**
	Sample Name:	**SS-38443-122018-JC-004**	**SS-38443-122018-JC-005**	**SS-38443-122018-JC-226**
	Sample Date:	**12/20/2018**	**12/20/2018**	**12/20/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
				Duplicate
Parameters	**Unit**			
Semivolatile Organic Compounds				
Acetophenone	µg/kg	14 U	26 U	16 J
Anthracene	µg/kg	34	310 J	110 J
Atrazine	µg/kg	45 U	86 U	40 U
Benzaldehyde	µg/kg	29 U	55 U	25 U
Benzo(a)anthracene	µg/kg	170	1500 J	440 J
Benzo(a)pyrene	µg/kg	210	1300	450
Benzo(b)fluoranthene	µg/kg	300	1900	780
Benzo(g,h,i)perylene	µg/kg	170	610 J	160 J
Benzo(k)fluoranthene	µg/kg	110	820 J	220 J
Biphenyl (1,1-Biphenyl)	µg/kg	21 U	41 U	19 U
bis(2-Chloroethoxy)methane	µg/kg	15 U	29 U	13 U
bis(2-Chloroethyl)ether	µg/kg	15 U	29 U	13 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	100	130 J	130
Butyl benzylphthalate (BBP)	µg/kg	28 U	53 U	24 U
Caprolactam	µg/kg	94 U	180 U	83 U
Carbazole	µg/kg	24 U	110 J	51 J
Chrysene	µg/kg	230	1400 J	460 J
Di-n-butylphthalate (DBP)	µg/kg	28 U	53 U	45 J
Di-n-octyl phthalate (DnOP)	µg/kg	35 U	67 U	31 U
Dibenz(a,h)anthracene	µg/kg	39	200 J	48 J
Dibenzofuran	µg/kg	16 U	43 J	25 J
Diethyl phthalate	µg/kg	39 U	74 U	34 U
Dimethyl phthalate	µg/kg	18 U	34 U	15 U
Fluoranthene	µg/kg	380	3200 J	1000 J
Fluorene	µg/kg	11 J	61	29
Hexachlorobenzene	µg/kg	3.6 U	6.8 U	3.1 U
Hexachlorobutadiene	µg/kg	15 U	29 U	13 U
Hexachlorocyclopentadiene	µg/kg	78 U	150 U	68 U
Hexachloroethane	µg/kg	11 U	22 U	9.9 U
Indeno(1,2,3-cd)pyrene	µg/kg	160	580 J	160 J
Isophorone	µg/kg	15 U	29 U	13 U
N-Nitrosodi-n-propylamine	µg/kg	14 U	26 U	12 U
N-Nitrosodiphenylamine	µg/kg	15 U	29 U	13 U
Naphthalene	µg/kg	20	32 J	41
Nitrobenzene	µg/kg	16 U	31 U	14 U
Pentachlorophenol	µg/kg	73 U	140 U	64 U
Phenanthrene	µg/kg	160	1100	390
Phenol	µg/kg	10 U	19 U	19 J
Pyrene	µg/kg	290	1900	710

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-4**	**SS-5**	**SS-5**
	Sample Name:	**SS-38443-122018-JC-004**	**SS-38443-122018-JC-005**	**SS-38443-122018-JC-226**
	Sample Date:	**12/20/2018**	**12/20/2018**	**12/20/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
				Duplicate
Parameters	**Unit**			
Herbicides				
2,4,5-T	µg/kg	--	--	--
2,4,5-TP (Silvex)	µg/kg	--	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/kg	--	--	--
PCBs				
Aroclor-1016 (PCB-1016)	µg/kg	27 U	26 U	24 U
Aroclor-1221 (PCB-1221)	µg/kg	29 U	28 U	26 U
Aroclor-1232 (PCB-1232)	µg/kg	28 U	27 U	25 U
Aroclor-1242 (PCB-1242)	µg/kg	23 U	22 U	21 U
Aroclor-1248 (PCB-1248)	µg/kg	29 U	28 U	26 U
Aroclor-1254 (PCB-1254)	µg/kg	57 J	630	710
Aroclor-1260 (PCB-1260)	µg/kg	27 U	26 U	24 U
Pesticides				
4,4'-DDD	µg/kg	1.8 U	1.8 U	1.6 U
4,4'-DDE	µg/kg	1.9 U	1.8 U	1.7 U
4,4'-DDT	µg/kg	3.7 J	1.3 U	1.2 U
Aldrin	µg/kg	0.96 U	0.92 U	0.84 U
alpha-BHC	µg/kg	1.1 U	1.1 U	1.0 U
alpha-Chlordane	µg/kg	1.9 U	13	12
beta-BHC	µg/kg	2.2 U	2.1 U	1.9 U
delta-BHC	µg/kg	2.1 U	2.0 U	1.8 U
Dieldrin	µg/kg	1.4 U	12 J	12 J
Endosulfan I	µg/kg	1.5 U	1.4 U	1.3 U
Endosulfan II	µg/kg	1.8 U	1.8 U	1.6 U
Endosulfan sulfate	µg/kg	1.6 U	1.5 U	1.4 U
Endrin	µg/kg	2.4 U	2.3 U	2.1 U
Endrin aldehyde	µg/kg	1.6 U	1.7 NJ	1.4 U
Endrin ketone	µg/kg	1.1 U	1.1 U	0.97 U
gamma-BHC (lindane)	µg/kg	2.2 U	2.1 U	2.0 U
gamma-Chlordane	µg/kg	1.5 U	12	11 J
Heptachlor	µg/kg	2.0 U	1.9 U	1.7 U
Heptachlor epoxide	µg/kg	1.8 U	1.7 U	1.6 U
Methoxychlor	µg/kg	8.2 U	7.8 U	7.2 U
Toxaphene	µg/kg	31 U	30 U	27 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-4**	**SS-5**	**SS-5**
	Sample Name:	**SS-38443-122018-JC-004**	**SS-38443-122018-JC-005**	**SS-38443-122018-JC-226**
	Sample Date:	**12/20/2018**	**12/20/2018**	**12/20/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
				Duplicate
Parameters	**Unit**			
Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs)				
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
Total heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
Total hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
Total pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
Total tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Metals				
Aluminum	mg/kg	6500	5600	6900
Antimony	mg/kg	0.20	2.5 J	12 J
Arsenic	mg/kg	6.2	14	19
Barium	mg/kg	130	270	740
Beryllium	mg/kg	0.57	0.60	0.70
Cadmium	mg/kg	0.54	6.4	14
Calcium	mg/kg	71000	77000	78000
Chromium	mg/kg	14	29	46
Chromium III (trivalent)	mg/kg	13	28	46
Chromium VI (hexavalent)	mg/kg	0.31 J	0.72 J	1.3 U
Cobalt	mg/kg	5.2	9.0 J	67 J

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-4**	**SS-5**	**SS-5**
	Sample Name:	**SS-38443-122018-JC-004**	**SS-38443-122018-JC-005**	**SS-38443-122018-JC-226**
	Sample Date:	**12/20/2018**	**12/20/2018**	**12/20/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
				Duplicate
Parameters	**Unit**			
Metals				
Copper	mg/kg	40 J	600 J	770 J
Iron	mg/kg	14000	32000	40000
Lead	mg/kg	51	280	330
Lead - coarse fraction	mg/kg	--	--	--
Lead - fine fraction	mg/kg	--	--	--
Lead - total (calculated by fine/coarse fraction)	mg/kg	--	--	--
Magnesium	mg/kg	23000	31000	34000
Manganese	mg/kg	430	410	590
Mercury	mg/kg	0.060 J	0.079 J	0.065 J
Nickel	mg/kg	15	43 J	150 J
Potassium	mg/kg	820 J	800 J	1200 J
Selenium	mg/kg	0.48 J	0.77 J	1.3
Silver	mg/kg	0.25	0.33	0.41
Sodium	mg/kg	98 J	140 J	2000 J
Thallium	mg/kg	0.20	0.20 J	0.091 J
Vanadium	mg/kg	16	18	21
Zinc	mg/kg	110 J	370 J	560 J
General Chemistry				
Cyanide (total)	mg/kg	R	8.7 J	4.9 J
Soot carbon	mg/kg	--	--	--
Total organic carbon (TOC)	mg/kg	--	--	--

Notes:

R - Rejected
J - Estimated concentration
U - Not detected at the associated reporting limit
-- - Not applicable
UJ - Not detected; associated reporting limit is detected
PCBs - Polychlorinated Biphenyls

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-6**	**SS-7**	**SS-8**
	Sample Name:	**SS-38443-122018-JC-006**	**SS-38443-122018-JC-007**	**SS-38443-122018-JC-008**
	Sample Date:	**12/20/2018**	**12/20/2018**	**12/20/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/kg	1.1 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/kg	2.0 U	1.8 U	1.8 UJ
1,1,2-Trichloroethane	µg/kg	1.6 U	1.4 U	1.4 U
1,1-Dichloroethane	µg/kg	0.95 U	0.86 U	0.87 U
1,1-Dichloroethene	µg/kg	1.2 U	1.1 U	1.1 U
1,2,4-Trichlorobenzene	µg/kg	0.78 U	0.71 U	0.72 UJ
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	4.9 U	4.5 U	4.5 UJ
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	1.1 U	0.95 U	0.97 U
1,2-Dichlorobenzene	µg/kg	1.5 U	1.4 U	1.4 UJ
1,2-Dichloroethane	µg/kg	1.1 U	0.95 U	0.97 U
1,2-Dichloropropane	µg/kg	1.2 U	1.1 U	1.1 U
1,3-Dichlorobenzene	µg/kg	1.1 U	1.0 U	1.0 UJ
1,4-Dichlorobenzene	µg/kg	1.2 U	1.1 U	1.1 UJ
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	4.9 U	4.4 U	4.5 U
2-Hexanone	µg/kg	5.6 U	5.0 U	5.1 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	5.1 U	4.6 U	4.7 U
Acetone	µg/kg	29 U	26 U	26 U
Benzene	µg/kg	0.96 U	0.86 U	0.88 U
Bromodichloromethane	µg/kg	0.93 U	0.84 U	0.85 U
Bromoform	µg/kg	3.3 U	3.0 U	3.0 U
Bromomethane (Methyl bromide)	µg/kg	1.4 U	1.2 U	1.2 U
Carbon disulfide	µg/kg	1.6 U	1.4 U	1.5 U
Carbon tetrachloride	µg/kg	4.5 U	4.0 U	4.1 U
Chlorobenzene	µg/kg	1.3 U	1.1 U	1.2 U
Chloroethane	µg/kg	1.7 U	1.5 U	1.5 U
Chloroform (Trichloromethane)	µg/kg	1.1 U	0.97 U	0.99 U
Chloromethane (Methyl chloride)	µg/kg	1.4 U	1.3 U	1.3 U
cis-1,2-Dichloroethene	µg/kg	0.89 U	0.80 U	0.82 U
cis-1,3-Dichloropropene	µg/kg	2.0 U	1.8 U	1.8 U
Cyclohexane	µg/kg	1.9 U	1.7 U	1.7 U
Dibromochloromethane	µg/kg	3.8 U	3.4 U	3.5 U
Dichlorodifluoromethane (CFC-12)	µg/kg	1.3 U	1.2 U	1.2 U
Ethylbenzene	µg/kg	1.4 U	1.3 U	1.3 U
Isopropyl benzene	µg/kg	1.1 U	1.0 U	1.0 U
Methyl acetate	µg/kg	4.7 U	4.2 U	4.3 U
Methyl cyclohexane	µg/kg	1.7 U	1.5 U	1.5 U
Methyl tert butyl ether (MTBE)	µg/kg	1.1 U	1.0 U	1.0 U
Methylene chloride	µg/kg	16 U	15 U	15 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-6**	**SS-7**	**SS-8**
	Sample Name:	**SS-38443-122018-JC-006**	**SS-38443-122018-JC-007**	**SS-38443-122018-JC-008**
	Sample Date:	**12/20/2018**	**12/20/2018**	**12/20/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
Styrene	µg/kg	1.6 U	1.4 U	1.5 U
Tetrachloroethene	µg/kg	2.4 J	0.90 U	0.92 U
Toluene	µg/kg	1.1 U	0.95 U	0.97 U
trans-1,2-Dichloroethene	µg/kg	0.64 U	0.57 U	0.58 U
trans-1,3-Dichloropropene	µg/kg	1.4 U	1.3 U	1.3 U
Trichloroethene	µg/kg	0.87 U	0.78 U	0.80 U
Trichlorofluoromethane (CFC-11)	µg/kg	1.5 U	1.3 U	1.4 U
Trifluorotrichloroethane (CFC-113)	µg/kg	1.8 U	1.6 U	1.6 U
Vinyl chloride	µg/kg	1.1 U	1.0 U	1.1 U
Xylenes (total)	µg/kg	2.2 U	2.0 U	2.0 U
Semivolatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	38 UJ	12 U	20 U
2,4,5-Trichlorophenol	µg/kg	260 UJ	81 U	140 U
2,4,6-Trichlorophenol	µg/kg	240 UJ	75 U	130 U
2,4-Dichlorophenol	µg/kg	170 UJ	52 U	89 U
2,4-Dimethylphenol	µg/kg	150 UJ	47 U	81 U
2,4-Dinitrophenol	µg/kg	530 UJ	R	290 U
2,4-Dinitrotoluene	µg/kg	230 UJ	73 U	130 U
2,6-Dinitrotoluene	µg/kg	210 UJ	66 U	110 U
2-Chloronaphthalene	µg/kg	53 UJ	17 U	28 U
2-Chlorophenol	µg/kg	38 UJ	12 U	20 U
2-Methylnaphthalene	µg/kg	18 J	43 J	72
2-Methylphenol	µg/kg	120 UJ	37 U	63 U
2-Nitroaniline	µg/kg	150 UJ	47 U	81 U
2-Nitrophenol	µg/kg	49 UJ	15 U	26 U
3&4-Methylphenol	µg/kg	110 UJ	34 U	58 U
3,3'-Dichlorobenzidine	µg/kg	160 UJ	51 U	87 U
3-Nitroaniline	µg/kg	180 UJ	58 U	99 U
4,6-Dinitro-2-methylphenol	µg/kg	300 UJ	94 U	160 U
4-Bromophenyl phenyl ether	µg/kg	53 UJ	17 U	28 U
4-Chloro-3-methylphenol	µg/kg	170 UJ	53 U	91 U
4-Chloroaniline	µg/kg	110 UJ	35 U	60 U
4-Chlorophenyl phenyl ether	µg/kg	53 UJ	17 U	28 U
4-Nitroaniline	µg/kg	230 UJ	71 U	120 U
4-Nitrophenol	µg/kg	350 UJ	110 U	190 U
Acenaphthene	µg/kg	11 UJ	33 J	31
Acenaphthylene	µg/kg	29 J	46 J	36

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-6**	**SS-7**	**SS-8**
	Sample Name:	**SS-38443-122018-JC-006**	**SS-38443-122018-JC-007**	**SS-38443-122018-JC-008**
	Sample Date:	**12/20/2018**	**12/20/2018**	**12/20/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Semivolatile Organic Compounds				
Acetophenone	µg/kg	41 UJ	22 J	22 U
Anthracene	µg/kg	44 J	210 J	96
Atrazine	µg/kg	140 UJ	42 U	73 U
Benzaldehyde	µg/kg	86 UJ	30 J	46 U
Benzo(a)anthracene	µg/kg	230 J	950 J	540
Benzo(a)pyrene	µg/kg	310 J	1000 J	600
Benzo(b)fluoranthene	µg/kg	440 J	1600 J	960
Benzo(g,h,i)perylene	µg/kg	250 J	460 J	490
Benzo(k)fluoranthene	µg/kg	150 J	600 J	380
Biphenyl (1,1-Biphenyl)	µg/kg	64 UJ	20 U	34 U
bis(2-Chloroethoxy)methane	µg/kg	45 UJ	14 U	24 U
bis(2-Chloroethyl)ether	µg/kg	45 UJ	14 U	24 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	190 UJ	160 J	150
Butyl benzylphthalate (BBP)	µg/kg	83 UJ	580	75 J
Caprolactam	µg/kg	280 UJ	88 U	150 U
Carbazole	µg/kg	71 UJ	70	67 J
Chrysene	µg/kg	300 J	1000 J	650
Di-n-butylphthalate (DBP)	µg/kg	83 UJ	110 J	44 U
Di-n-octyl phthalate (DnOP)	µg/kg	110 UJ	33 UJ	56 U
Dibenz(a,h)anthracene	µg/kg	60 J	130 J	140
Dibenzofuran	µg/kg	49 UJ	41 J	41 J
Diethyl phthalate	µg/kg	120 UJ	37 U	63 U
Dimethyl phthalate	µg/kg	53 UJ	17 U	28 U
Fluoranthene	µg/kg	450 J	2100	1100
Fluorene	µg/kg	10 UJ	44 J	35
Hexachlorobenzene	µg/kg	11 UJ	3.4 UJ	5.7 U
Hexachlorobutadiene	µg/kg	45 UJ	14 UJ	24 U
Hexachlorocyclopentadiene	µg/kg	230 UJ	R	130 U
Hexachloroethane	µg/kg	34 UJ	11 U	18 U
Indeno(1,2,3-cd)pyrene	µg/kg	220 J	450 J	450
Isophorone	µg/kg	45 UJ	14 U	24 U
N-Nitrosodi-n-propylamine	µg/kg	41 UJ	13 U	22 U
N-Nitrosodiphenylamine	µg/kg	45 UJ	14 U	24 U
Naphthalene	µg/kg	9.1 UJ	53 J	70
Nitrobenzene	µg/kg	49 UJ	15 U	26 U
Pentachlorophenol	µg/kg	220 UJ	68 U	120 U
Phenanthrene	µg/kg	200 J	630 J	500
Phenol	µg/kg	30 UJ	9.4 U	16 U
Pyrene	µg/kg	280 J	1400 J	840

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-6**	**SS-7**	**SS-8**
	Sample Name:	**SS-38443-122018-JC-006**	**SS-38443-122018-JC-007**	**SS-38443-122018-JC-008**
	Sample Date:	**12/20/2018**	**12/20/2018**	**12/20/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Herbicides				
2,4,5-T	µg/kg	--	--	--
2,4,5-TP (Silvex)	µg/kg	--	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/kg	--	--	--
PCBs				
Aroclor-1016 (PCB-1016)	µg/kg	65 U	25 U	58 U
Aroclor-1221 (PCB-1221)	µg/kg	71 U	28 U	63 U
Aroclor-1232 (PCB-1232)	µg/kg	68 U	26 U	60 U
Aroclor-1242 (PCB-1242)	µg/kg	56 U	22 U	50 U
Aroclor-1248 (PCB-1248)	µg/kg	71 U	28 U	63 U
Aroclor-1254 (PCB-1254)	µg/kg	1200	170	1700
Aroclor-1260 (PCB-1260)	µg/kg	65 U	25 U	58 U
Pesticides				
4,4'-DDD	µg/kg	2.2 U	1.7 U	10 U
4,4'-DDE	µg/kg	2.3 U	4.8 J	11 U
4,4'-DDT	µg/kg	1.7 U	9.3 NJ	7.9 U
Aldrin	µg/kg	1.2 U	0.88 U	5.4 U
alpha-BHC	µg/kg	1.4 U	1.0 U	6.3 U
alpha-Chlordane	µg/kg	2.3 U	1.7 U	10 U
beta-BHC	µg/kg	2.6 U	2.0 U	12 U
delta-BHC	µg/kg	2.6 U	1.9 U	12 U
Dieldrin	µg/kg	11 NJ	7.2 J	7.7 U
Endosulfan I	µg/kg	1.8 U	1.4 U	8.4 U
Endosulfan II	µg/kg	2.2 U	1.7 U	10 U
Endosulfan sulfate	µg/kg	1.9 U	1.5 U	8.9 U
Endrin	µg/kg	2.9 U	2.2 U	13 U
Endrin aldehyde	µg/kg	2.0 U	1.5 U	9.1 U
Endrin ketone	µg/kg	1.3 U	1.0 U	6.2 U
gamma-BHC (lindane)	µg/kg	2.7 U	2.1 U	12 U
gamma-Chlordane	µg/kg	1.9 U	1.4 NJ	8.6 U
Heptachlor	µg/kg	2.4 U	1.8 U	11 U
Heptachlor epoxide	µg/kg	3.5 NJ	2.1 J	10 U
Methoxychlor	µg/kg	9.9 U	7.5 U	46 U
Toxaphene	µg/kg	38 U	29 U	170 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-6**	**SS-7**	**SS-8**
	Sample Name:	**SS-38443-122018-JC-006**	**SS-38443-122018-JC-007**	**SS-38443-122018-JC-008**
	Sample Date:	**12/20/2018**	**12/20/2018**	**12/20/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs)				
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
Total heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
Total hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
Total pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
Total tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Metals				
Aluminum	mg/kg	14000	4600	11000
Antimony	mg/kg	260	80	3.2
Arsenic	mg/kg	29	8.7	16
Barium	mg/kg	1300	470	330
Beryllium	mg/kg	1.4	0.44	0.87
Cadmium	mg/kg	20	6.6	3.0
Calcium	mg/kg	25000	82000	62000
Chromium	mg/kg	99	50	46
Chromium III (trivalent)	mg/kg	99	50	46
Chromium VI (hexavalent)	mg/kg	1.8 U	2.8 U	3.3 U
Cobalt	mg/kg	23	6.9	9.9

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-6**	**SS-7**	**SS-8**
	Sample Name:	**SS-38443-122018-JC-006**	**SS-38443-122018-JC-007**	**SS-38443-122018-JC-008**
	Sample Date:	**12/20/2018**	**12/20/2018**	**12/20/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Metals				
Copper	mg/kg	6000 J	930 J	310 J
Iron	mg/kg	30000	19000	21000
Lead	mg/kg	2400	930	450
Lead - coarse fraction	mg/kg	4500 J	--	320 J
Lead - fine fraction	mg/kg	2500	--	300
Lead - total (calculated by fine/coarse fraction)	mg/kg	4100	--	320
Magnesium	mg/kg	19000	43000	24000
Manganese	mg/kg	760	330	540
Mercury	mg/kg	0.24	0.068 J	0.23
Nickel	mg/kg	330	60	43
Potassium	mg/kg	1500 J	680 J	1500 J
Selenium	mg/kg	2.7	0.98	1.4
Silver	mg/kg	4.9	0.76	1.5
Sodium	mg/kg	410	240	130 J
Thallium	mg/kg	0.41	0.17	0.22
Vanadium	mg/kg	42	16	28
Zinc	mg/kg	4500 J	780 J	280 J
General Chemistry				
Cyanide (total)	mg/kg	0.88 J	0.49 J	0.29 J
Soot carbon	mg/kg	--	--	--
Total organic carbon (TOC)	mg/kg	--	--	--

Notes:

R - Rejected
J - Estimated concentration
U - Not detected at the associated reporting limit
-- - Not applicable
UJ - Not detected; associated reporting limit is detected
PCBs - Polychlorinated Biphenyls

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-9**	**SS-10**	**SS-11**
	Sample Name:	**SS-38443-122018-JC-009**	**SS-38443-122018-JC-010**	**SS-38443-122018-JC-011**
	Sample Date:	**12/20/2018**	**12/20/2018**	**12/20/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/kg	0.83 U	0.72 U	0.79 U
1,1,2,2-Tetrachloroethane	µg/kg	1.4 U	1.3 U	1.4 U
1,1,2-Trichloroethane	µg/kg	1.1 U	0.99 U	1.1 U
1,1-Dichloroethane	µg/kg	0.70 U	0.61 U	0.67 U
1,1-Dichloroethene	µg/kg	0.91 U	0.79 U	0.87 U
1,2,4-Trichlorobenzene	µg/kg	0.58 U	0.50 U	0.55 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	3.7 U	3.2 U	3.5 U
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	0.78 U	0.67 U	0.74 U
1,2-Dichlorobenzene	µg/kg	1.1 U	0.97 U	1.1 U
1,2-Dichloroethane	µg/kg	0.78 U	0.68 U	0.74 U
1,2-Dichloropropane	µg/kg	0.86 U	0.75 U	0.82 U
1,3-Dichlorobenzene	µg/kg	0.83 U	0.71 U	0.79 U
1,4-Dichlorobenzene	µg/kg	0.89 U	0.77 U	0.85 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	3.6 U	3.1 U	3.4 U
2-Hexanone	µg/kg	4.1 U	3.6 U	3.9 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	3.8 U	3.3 U	3.6 U
Acetone	µg/kg	21 U	18 U	20 U
Benzene	µg/kg	0.71 U	0.61 U	0.67 U
Bromodichloromethane	µg/kg	0.69 U	0.59 U	0.65 U
Bromoform	µg/kg	2.4 U	2.1 U	2.3 U
Bromomethane (Methyl bromide)	µg/kg	1.0 U	0.86 U	0.95 U
Carbon disulfide	µg/kg	1.2 U	1.0 U	1.1 U
Carbon tetrachloride	µg/kg	3.3 U	2.8 U	3.1 U
Chlorobenzene	µg/kg	0.93 U	0.80 U	0.88 U
Chloroethane	µg/kg	1.2 U	1.1 U	1.2 U
Chloroform (Trichloromethane)	µg/kg	0.80 U	0.69 U	0.76 U
Chloromethane (Methyl chloride)	µg/kg	1.1 U	0.91 U	1.0 U
cis-1,2-Dichloroethene	µg/kg	0.66 U	0.57 U	0.63 U
cis-1,3-Dichloropropene	µg/kg	1.5 U	1.3 U	1.4 U
Cyclohexane	µg/kg	1.4 U	1.2 U	1.3 U
Dibromochloromethane	µg/kg	2.8 U	2.4 U	2.7 U
Dichlorodifluoromethane (CFC-12)	µg/kg	0.96 U	0.83 U	0.91 U
Ethylbenzene	µg/kg	1.1 U	0.92 U	1.0 U
Isopropyl benzene	µg/kg	0.84 U	0.73 U	0.80 U
Methyl acetate	µg/kg	3.4 U	3.0 U	3.3 U
Methyl cyclohexane	µg/kg	1.2 U	1.1 U	1.2 U
Methyl tert butyl ether (MTBE)	µg/kg	0.83 U	0.72 U	0.79 U
Methylene chloride	µg/kg	12 U	11 U	12 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-9**	**SS-10**	**SS-11**
	Sample Name:	**SS-38443-122018-JC-009**	**SS-38443-122018-JC-010**	**SS-38443-122018-JC-011**
	Sample Date:	**12/20/2018**	**12/20/2018**	**12/20/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
Styrene	µg/kg	1.2 U	1.0 U	1.1 U
Tetrachloroethene	µg/kg	0.74 U	0.64 U	0.70 U
Toluene	µg/kg	0.78 U	0.68 U	0.74 U
trans-1,2-Dichloroethene	µg/kg	0.47 U	0.41 U	0.45 U
trans-1,3-Dichloropropene	µg/kg	1.0 U	0.91 U	1.0 U
Trichloroethene	µg/kg	0.64 U	0.55 U	0.61 U
Trichlorofluoromethane (CFC-11)	µg/kg	1.1 U	0.94 U	1.0 U
Trifluorotrichloroethane (CFC-113)	µg/kg	1.3 U	1.1 U	1.2 U
Vinyl chloride	µg/kg	0.85 U	0.73 U	0.81 U
Xylenes (total)	µg/kg	1.6 U	1.4 U	1.5 U
Semivolatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	12 U	12 U	11 U
2,4,5-Trichlorophenol	µg/kg	82 U	82 U	78 U
2,4,6-Trichlorophenol	µg/kg	76 U	76 U	72 U
2,4-Dichlorophenol	µg/kg	52 U	52 U	50 U
2,4-Dimethylphenol	µg/kg	48 U	48 U	45 U
2,4-Dinitrophenol	µg/kg	170 U	170 U	160 U
2,4-Dinitrotoluene	µg/kg	74 U	74 U	70 U
2,6-Dinitrotoluene	µg/kg	67 U	67 U	63 U
2-Chloronaphthalene	µg/kg	17 U	17 U	16 U
2-Chlorophenol	µg/kg	12 U	12 U	11 U
2-Methylnaphthalene	µg/kg	120	6.8 J	13 J
2-Methylphenol	µg/kg	37 U	37 U	35 U
2-Nitroaniline	µg/kg	48 U	48 U	45 U
2-Nitrophenol	µg/kg	15 U	16 U	15 U
3&4-Methylphenol	µg/kg	35 U	35 U	33 U
3,3'-Dichlorobenzidine	µg/kg	51 U	51 U	48 U
3-Nitroaniline	µg/kg	58 U	58 U	55 U
4,6-Dinitro-2-methylphenol	µg/kg	95 U	95 U	90 U
4-Bromophenyl phenyl ether	µg/kg	17 U	17 U	16 U
4-Chloro-3-methylphenol	µg/kg	54 U	54 U	51 U
4-Chloroaniline	µg/kg	36 U	36 U	34 U
4-Chlorophenyl phenyl ether	µg/kg	17 U	17 U	16 U
4-Nitroaniline	µg/kg	72 U	72 U	68 U
4-Nitrophenol	µg/kg	110 U	110 U	110 U
Acenaphthene	µg/kg	10 J	3.4 U	3.2 U
Acenaphthylene	µg/kg	9.1 J	4.8 U	12 J

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-9**	**SS-10**	**SS-11**
	Sample Name:	**SS-38443-122018-JC-009**	**SS-38443-122018-JC-010**	**SS-38443-122018-JC-011**
	Sample Date:	**12/20/2018**	**12/20/2018**	**12/20/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Semivolatile Organic Compounds				
Acetophenone	µg/kg	13 U	13 U	12 U
Anthracene	µg/kg	25	5.5 J	22
Atrazine	µg/kg	43 U	43 U	41 U
Benzaldehyde	µg/kg	27 J	27 U	26 U
Benzo(a)anthracene	µg/kg	99	24	93
Benzo(a)pyrene	µg/kg	96	24	110
Benzo(b)fluoranthene	µg/kg	170	37	200
Benzo(g,h,i)perylene	µg/kg	95	19	49
Benzo(k)fluoranthene	µg/kg	59	9.3 J	60
Biphenyl (1,1-Biphenyl)	µg/kg	20 U	20 U	19 U
bis(2-Chloroethoxy)methane	µg/kg	14 U	14 U	14 U
bis(2-Chloroethyl)ether	µg/kg	14 U	14 U	14 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	61 U	61 U	57 U
Butyl benzylphthalate (BBP)	µg/kg	26 U	26 U	25 U
Caprolactam	µg/kg	89 U	89 U	84 U
Carbazole	µg/kg	23 U	23 U	21 U
Chrysene	µg/kg	140	25	110
Di-n-butylphthalate (DBP)	µg/kg	26 U	26 U	25 U
Di-n-octyl phthalate (DnOP)	µg/kg	33 U	33 U	32 U
Dibenz(a,h)anthracene	µg/kg	27	8.3 U	7.8 U
Dibenzofuran	µg/kg	37 J	16 U	15 U
Diethyl phthalate	µg/kg	37 U	37 U	35 U
Dimethyl phthalate	µg/kg	17 U	17 U	16 U
Fluoranthene	µg/kg	200	39	190
Fluorene	µg/kg	9.0 J	3.3 U	5.4 J
Hexachlorobenzene	µg/kg	3.4 U	3.4 U	3.2 U
Hexachlorobutadiene	µg/kg	14 U	14 U	14 U
Hexachlorocyclopentadiene	µg/kg	74 U	74 U	70 U
Hexachloroethane	µg/kg	11 U	11 U	10 U
Indeno(1,2,3-cd)pyrene	µg/kg	65	15 J	47
Isophorone	µg/kg	14 U	14 U	14 U
N-Nitrosodi-n-propylamine	µg/kg	13 U	13 U	12 U
N-Nitrosodiphenylamine	µg/kg	14 U	14 U	14 U
Naphthalene	µg/kg	74	2.9 U	9.5 J
Nitrobenzene	µg/kg	15 U	16 U	15 U
Pentachlorophenol	µg/kg	69 U	69 U	65 U
Phenanthrene	µg/kg	170	21	84
Phenol	µg/kg	9.5 U	9.5 U	9.0 U
Pyrene	µg/kg	150	32	140

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-9**	**SS-10**	**SS-11**
	Sample Name:	**SS-38443-122018-JC-009**	**SS-38443-122018-JC-010**	**SS-38443-122018-JC-011**
	Sample Date:	**12/20/2018**	**12/20/2018**	**12/20/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Herbicides				
2,4,5-T	µg/kg	--	--	--
2,4,5-TP (Silvex)	µg/kg	--	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/kg	--	--	--
PCBs				
Aroclor-1016 (PCB-1016)	µg/kg	25 U	25 U	24 U
Aroclor-1221 (PCB-1221)	µg/kg	27 U	28 U	26 U
Aroclor-1232 (PCB-1232)	µg/kg	26 U	27 U	25 U
Aroclor-1242 (PCB-1242)	µg/kg	21 U	22 U	21 U
Aroclor-1248 (PCB-1248)	µg/kg	27 U	28 U	26 U
Aroclor-1254 (PCB-1254)	µg/kg	53 J	27 U	41 J
Aroclor-1260 (PCB-1260)	µg/kg	25 U	25 U	24 U
Pesticides				
4,4'-DDD	µg/kg	1.7 U	1.7 U	1.7 U
4,4'-DDE	µg/kg	2.0 J	1.7 U	1.7 U
4,4'-DDT	µg/kg	1.3 U	1.3 U	3.1 J
Aldrin	µg/kg	0.88 U	0.89 U	0.87 U
alpha-BHC	µg/kg	1.0 U	1.0 U	1.0 U
alpha-Chlordane	µg/kg	1.7 U	1.7 U	1.7 U
beta-BHC	µg/kg	2.0 U	2.0 U	2.0 U
delta-BHC	µg/kg	1.9 U	1.9 U	1.9 U
Dieldrin	µg/kg	1.3 U	1.3 U	1.2 U
Endosulfan I	µg/kg	1.4 U	1.4 U	1.4 U
Endosulfan II	µg/kg	1.7 U	1.7 U	1.7 U
Endosulfan sulfate	µg/kg	1.5 U	1.5 U	1.4 U
Endrin	µg/kg	2.2 U	2.2 U	2.2 U
Endrin aldehyde	µg/kg	1.5 U	1.5 U	1.5 U
Endrin ketone	µg/kg	1.0 U	1.0 U	1.0 U
gamma-BHC (lindane)	µg/kg	2.0 U	2.1 U	2.0 U
gamma-Chlordane	µg/kg	1.4 U	1.4 U	1.4 U
Heptachlor	µg/kg	1.8 U	1.8 U	1.8 U
Heptachlor epoxide	µg/kg	1.6 U	1.7 U	1.6 U
Methoxychlor	µg/kg	7.5 U	7.6 U	7.4 U
Toxaphene	µg/kg	29 U	29 U	28 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-9**	**SS-10**	**SS-11**
	Sample Name:	**SS-38443-122018-JC-009**	**SS-38443-122018-JC-010**	**SS-38443-122018-JC-011**
	Sample Date:	**12/20/2018**	**12/20/2018**	**12/20/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs)				
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
Total heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
Total hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
Total pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
Total tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Metals				
Aluminum	mg/kg	10000	12000	5500
Antimony	mg/kg	15	8.3	0.85
Arsenic	mg/kg	16	13	8.2
Barium	mg/kg	400	1800	86
Beryllium	mg/kg	0.56	0.60	0.32
Cadmium	mg/kg	0.81	0.24	0.48
Calcium	mg/kg	34000	12000	100000
Chromium	mg/kg	19	18	12
Chromium III (trivalent)	mg/kg	19	18	12
Chromium VI (hexavalent)	mg/kg	1.4 U	1.4 U	1.4 U
Cobalt	mg/kg	6.7	7.9	5.3

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-9**	**SS-10**	**SS-11**
	Sample Name:	**SS-38443-122018-JC-009**	**SS-38443-122018-JC-010**	**SS-38443-122018-JC-011**
	Sample Date:	**12/20/2018**	**12/20/2018**	**12/20/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Metals				
Copper	mg/kg	53 J	19 J	25 J
Iron	mg/kg	18000	20000	14000
Lead	mg/kg	60	20	68
Lead - coarse fraction	mg/kg	--	20 J	--
Lead - fine fraction	mg/kg	--	47	--
Lead - total (calculated by fine/coarse fraction)	mg/kg	--	22	--
Magnesium	mg/kg	17000	7100	46000
Manganese	mg/kg	530	760	320
Mercury	mg/kg	0.081 J	0.052 J	0.15
Nickel	mg/kg	19	19	17
Potassium	mg/kg	1300 J	1200 J	1200 J
Selenium	mg/kg	0.59 J	0.32 J	0.29 J
Silver	mg/kg	0.29	0.062 J	0.098 J
Sodium	mg/kg	87 J	65 J	140 J
Thallium	mg/kg	0.12	0.085 J	0.29
Vanadium	mg/kg	27	29	18
Zinc	mg/kg	110 J	59 J	79 J
General Chemistry				
Cyanide (total)	mg/kg	R	R	R
Soot carbon	mg/kg	--	--	--
Total organic carbon (TOC)	mg/kg	--	--	--

Notes:

R - Rejected
J - Estimated concentration
U - Not detected at the associated reporting limit
-- - Not applicable
UJ - Not detected; associated reporting limit is detected
PCBs - Polychlorinated Biphenyls

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-14**	**SS-15**	**SS-16**
	Sample Name:	**SS-38443-112018-JC-014**	**SS-38443-112018-JC-015**	**SS-38443-112018-JC-016**
	Sample Date:	**11/20/2018**	**11/20/2018**	**11/20/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/kg	0.82 U	0.88 U	0.88 U
1,1,2,2-Tetrachloroethane	µg/kg	1.4 U	1.5 U	1.5 U
1,1,2-Trichloroethane	µg/kg	1.1 U	1.2 U	1.2 U
1,1-Dichloroethane	µg/kg	0.69 U	0.75 U	0.74 U
1,1-Dichloroethene	µg/kg	0.90 U	0.97 U	0.96 U
1,2,4-Trichlorobenzene	µg/kg	0.57 U	0.62 U	0.61 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	3.6 U	3.9 U	3.8 U
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	0.77 U	0.83 U	0.82 U
1,2-Dichlorobenzene	µg/kg	1.1 U	1.2 U	1.2 U
1,2-Dichloroethane	µg/kg	0.77 U	0.83 U	0.82 U
1,2-Dichloropropane	µg/kg	0.85 U	0.92 U	0.91 U
1,3-Dichlorobenzene	µg/kg	0.81 U	0.88 U	0.87 U
1,4-Dichlorobenzene	µg/kg	0.88 U	0.95 U	0.94 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	3.5 U	3.8 U	3.8 U
2-Hexanone	µg/kg	4.1 U	4.4 U	4.4 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	3.7 U	4.0 U	4.0 U
Acetone	µg/kg	21 U	23 U	22 U
Benzene	µg/kg	0.69 U	0.75 U	0.74 U
Bromodichloromethane	µg/kg	0.68 U	0.73 U	0.72 U
Bromoform	µg/kg	2.4 U	2.6 U	2.6 U
Bromomethane (Methyl bromide)	µg/kg	0.98 U	1.1 U	1.1 UJ
Carbon disulfide	µg/kg	1.2 U	1.3 U	1.2 U
Carbon tetrachloride	µg/kg	3.2 U	3.5 U	3.5 U
Chlorobenzene	µg/kg	0.91 U	0.99 U	0.98 U
Chloroethane	µg/kg	1.2 U	1.3 U	1.3 U
Chloroform (Trichloromethane)	µg/kg	0.78 U	0.85 U	0.84 U
Chloromethane (Methyl chloride)	µg/kg	1.0 U	1.1 U	1.1 U
cis-1,2-Dichloroethene	µg/kg	0.65 U	0.70 U	0.69 U
cis-1,3-Dichloropropene	µg/kg	1.4 U	1.5 U	1.5 U
Cyclohexane	µg/kg	1.4 U	1.5 U	1.5 U
Dibromochloromethane	µg/kg	2.8 U	3.0 U	3.0 U
Dichlorodifluoromethane (CFC-12)	µg/kg	0.94 U	1.0 U	1.0 U
Ethylbenzene	µg/kg	1.0 U	1.1 U	1.1 U
Isopropyl benzene	µg/kg	0.83 U	0.90 U	0.89 U
Methyl acetate	µg/kg	3.4 U	3.7 U	3.6 U
Methyl cyclohexane	µg/kg	1.2 U	1.3 U	1.3 U
Methyl tert butyl ether (MTBE)	µg/kg	0.82 U	0.88 U	0.88 U
Methylene chloride	µg/kg	12 U	13 U	13 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-14**	**SS-15**	**SS-16**
	Sample Name:	**SS-38443-112018-JC-014**	**SS-38443-112018-JC-015**	**SS-38443-112018-JC-016**
	Sample Date:	**11/20/2018**	**11/20/2018**	**11/20/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
Styrene	µg/kg	1.2 U	1.2 U	1.2 U
Tetrachloroethene	µg/kg	0.73 U	0.79 U	0.78 U
Toluene	µg/kg	0.77 U	0.83 U	0.82 U
trans-1,2-Dichloroethene	µg/kg	0.46 U	0.50 U	0.50 U
trans-1,3-Dichloropropene	µg/kg	1.0 U	1.1 U	1.1 U
Trichloroethene	µg/kg	0.63 U	0.68 U	0.68 U
Trichlorofluoromethane (CFC-11)	µg/kg	1.1 U	1.2 U	1.2 U
Trifluorotrichloroethane (CFC-113)	µg/kg	1.3 U	1.4 U	1.4 U
Vinyl chloride	µg/kg	0.83 U	0.90 U	0.89 U
Xylenes (total)	µg/kg	1.6 U	1.7 U	1.7 U
Semivolatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	12 U	13 U	12 U
2,4,5-Trichlorophenol	µg/kg	82 U	88 U	81 U
2,4,6-Trichlorophenol	µg/kg	76 U	82 U	75 U
2,4-Dichlorophenol	µg/kg	52 U	56 U	51 U
2,4-Dimethylphenol	µg/kg	48 U	51 U	47 U
2,4-Dinitrophenol	µg/kg	170 U	180 U	170 U
2,4-Dinitrotoluene	µg/kg	74 U	79 U	72 U
2,6-Dinitrotoluene	µg/kg	67 U	72 U	65 U
2-Chloronaphthalene	µg/kg	17 U	18 U	16 U
2-Chlorophenol	µg/kg	12 U	13 U	12 U
2-Methylnaphthalene	µg/kg	2.3 U	2.5 U	2.3 U
2-Methylphenol	µg/kg	37 U	40 U	36 U
2-Nitroaniline	µg/kg	48 U	51 U	47 U
2-Nitrophenol	µg/kg	15 U	17 U	15 U
3&4-Methylphenol	µg/kg	35 U	37 U	34 U
3,3'-Dichlorobenzidine	µg/kg	51 U	55 U	50 U
3-Nitroaniline	µg/kg	58 U	63 U	57 U
4,6-Dinitro-2-methylphenol	µg/kg	95 U	100 U	93 U
4-Bromophenyl phenyl ether	µg/kg	17 U	18 U	16 U
4-Chloro-3-methylphenol	µg/kg	54 U	58 U	53 U
4-Chloroaniline	µg/kg	36 U	38 U	35 U
4-Chlorophenyl phenyl ether	µg/kg	17 U	18 U	16 U
4-Nitroaniline	µg/kg	72 U	77 U	70 U
4-Nitrophenol	µg/kg	110 U	120 U	110 U
Acenaphthene	µg/kg	3.4 U	3.7 U	3.3 U
Acenaphthylene	µg/kg	4.8 U	5.1 U	4.7 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-14**	**SS-15**	**SS-16**
	Sample Name:	**SS-38443-112018-JC-014**	**SS-38443-112018-JC-015**	**SS-38443-112018-JC-016**
	Sample Date:	**11/20/2018**	**11/20/2018**	**11/20/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Semivolatile Organic Compounds				
Acetophenone	µg/kg	13 U	14 U	13 U
Anthracene	µg/kg	2.9 U	3.1 U	2.8 U
Atrazine	µg/kg	43 U	46 U	42 U
Benzaldehyde	µg/kg	27 U	29 U	27 U
Benzo(a)anthracene	µg/kg	4.1 U	11 J	9.6 J
Benzo(a)pyrene	µg/kg	11 U	15 J	12 J
Benzo(b)fluoranthene	µg/kg	7.7 U	23	18
Benzo(g,h,i)perylene	µg/kg	8.5 U	15 J	9.6 J
Benzo(k)fluoranthene	µg/kg	8.3 U	8.9 U	8.1 U
Biphenyl (1,1-Biphenyl)	µg/kg	20 U	22 U	20 U
bis(2-Chloroethoxy)methane	µg/kg	14 U	15 U	14 U
bis(2-Chloroethyl)ether	µg/kg	14 U	15 U	14 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	61 U	65 U	60 U
Butyl benzylphthalate (BBP)	µg/kg	26 U	28 U	26 U
Caprolactam	µg/kg	89 U	96 U	88 U
Carbazole	µg/kg	23 U	24 U	22 U
Chrysene	µg/kg	1.8 U	17 J	17 J
Di-n-butylphthalate (DBP)	µg/kg	26 U	28 U	26 U
Di-n-octyl phthalate (DnOP)	µg/kg	33 U	36 U	33 U
Dibenz(a,h)anthracene	µg/kg	8.3 U	8.9 U	8.1 U
Dibenzofuran	µg/kg	15 U	17 U	15 U
Diethyl phthalate	µg/kg	37 U	40 U	36 U
Dimethyl phthalate	µg/kg	17 U	18 U	16 U
Fluoranthene	µg/kg	9.8 J	26	22
Fluorene	µg/kg	3.3 U	3.5 U	3.2 U
Hexachlorobenzene	µg/kg	3.4 U	3.7 U	3.3 U
Hexachlorobutadiene	µg/kg	14 U	15 U	14 U
Hexachlorocyclopentadiene	µg/kg	74 U	79 U	72 U
Hexachloroethane	µg/kg	11 U	12 U	11 U
Indeno(1,2,3-cd)pyrene	µg/kg	8.8 U	9.4 U	8.6 U
Isophorone	µg/kg	14 U	15 U	14 U
N-Nitrosodi-n-propylamine	µg/kg	13 U	14 U	13 U
N-Nitrosodiphenylamine	µg/kg	14 U	15 U	14 U
Naphthalene	µg/kg	2.9 U	3.1 U	2.8 U
Nitrobenzene	µg/kg	15 U	17 U	15 U
Pentachlorophenol	µg/kg	69 U	74 U	68 U
Phenanthrene	µg/kg	2.7 U	13 J	8.9 J
Phenol	µg/kg	9.5 U	10 U	9.3 U
Pyrene	µg/kg	11 J	22	18

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-14**	**SS-15**	**SS-16**
	Sample Name:	**SS-38443-112018-JC-014**	**SS-38443-112018-JC-015**	**SS-38443-112018-JC-016**
	Sample Date:	**11/20/2018**	**11/20/2018**	**11/20/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Herbicides				
2,4,5-T	µg/kg	--	--	--
2,4,5-TP (Silvex)	µg/kg	--	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/kg	--	--	--
PCBs				
Aroclor-1016 (PCB-1016)	µg/kg	26 U	28 U	25 U
Aroclor-1221 (PCB-1221)	µg/kg	29 U	30 U	28 U
Aroclor-1232 (PCB-1232)	µg/kg	28 U	29 U	26 U
Aroclor-1242 (PCB-1242)	µg/kg	23 U	24 U	22 U
Aroclor-1248 (PCB-1248)	µg/kg	29 U	30 U	28 U
Aroclor-1254 (PCB-1254)	µg/kg	28 U	29 U	26 U
Aroclor-1260 (PCB-1260)	µg/kg	26 U	28 U	25 U
Pesticides				
4,4'-DDD	µg/kg	1.7 U	1.9 U	1.8 U
4,4'-DDE	µg/kg	1.8 U	2.0 U	1.8 U
4,4'-DDT	µg/kg	1.3 U	3.5 J	1.3 U
Aldrin	µg/kg	0.90 U	1.0 U	0.91 U
alpha-BHC	µg/kg	1.1 U	1.2 U	1.1 U
alpha-Chlordane	µg/kg	1.8 U	1.9 U	1.8 U
beta-BHC	µg/kg	2.0 U	2.2 U	2.0 U
delta-BHC	µg/kg	2.0 U	2.2 U	2.0 U
Dieldrin	µg/kg	1.3 U	1.4 U	1.3 U
Endosulfan I	µg/kg	1.4 U	1.6 U	1.4 U
Endosulfan II	µg/kg	1.7 U	1.9 U	1.8 U
Endosulfan sulfate	µg/kg	1.5 U	1.7 U	1.5 U
Endrin	µg/kg	2.2 U	2.5 U	2.2 U
Endrin aldehyde	µg/kg	1.5 U	1.7 U	1.5 U
Endrin ketone	µg/kg	1.0 U	1.2 U	1.1 U
gamma-BHC (lindane)	µg/kg	2.1 U	2.3 U	2.1 U
gamma-Chlordane	µg/kg	1.4 U	1.6 U	1.5 U
Heptachlor	µg/kg	1.9 U	2.1 U	1.9 U
Heptachlor epoxide	µg/kg	1.7 U	1.9 U	1.7 U
Methoxychlor	µg/kg	7.7 U	8.5 U	7.8 U
Toxaphene	µg/kg	29 U	32 U	30 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-14**	**SS-15**	**SS-16**
	Sample Name:	**SS-38443-112018-JC-014**	**SS-38443-112018-JC-015**	**SS-38443-112018-JC-016**
	Sample Date:	**11/20/2018**	**11/20/2018**	**11/20/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs)				
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
Total heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
Total hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
Total pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
Total tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Metals				
Aluminum	mg/kg	12000	17000	14000
Antimony	mg/kg	1.5	0.79	0.99
Arsenic	mg/kg	10	12	8.3
Barium	mg/kg	170	120	180
Beryllium	mg/kg	0.51	0.67	0.51
Cadmium	mg/kg	0.24	0.35	0.19 J
Calcium	mg/kg	12000	15000	32000
Chromium	mg/kg	18	24	19
Chromium III (trivalent)	mg/kg	18	24	19
Chromium VI (hexavalent)	mg/kg	0.29 J	0.62 U	0.56 U
Cobalt	mg/kg	8.2	8.2	7.5

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-14**	**SS-15**	**SS-16**
	Sample Name:	**SS-38443-112018-JC-014**	**SS-38443-112018-JC-015**	**SS-38443-112018-JC-016**
	Sample Date:	**11/20/2018**	**11/20/2018**	**11/20/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Metals				
Copper	mg/kg	19	26	16
Iron	mg/kg	22000	26000	20000
Lead	mg/kg	19	30	15
Lead - coarse fraction	mg/kg	--	17 J	--
Lead - fine fraction	mg/kg	--	25	--
Lead - total (calculated by fine/coarse fraction)	mg/kg	--	18	--
Magnesium	mg/kg	7200	8500	17000
Manganese	mg/kg	730	670	660
Mercury	mg/kg	0.041 J	0.067 J	0.037 J
Nickel	mg/kg	19	23	20
Potassium	mg/kg	1200	1900	1100
Selenium	mg/kg	1.1	1.6	1.2
Silver	mg/kg	0.055 J	0.12 J	0.043 J
Sodium	mg/kg	57 U	60 U	64 J
Thallium	mg/kg	0.20 J	0.26	0.21
Vanadium	mg/kg	33	43	34
Zinc	mg/kg	81	110	55
General Chemistry				
Cyanide (total)	mg/kg	0.23 U	0.26 U	0.21 U
Soot carbon	mg/kg	--	--	--
Total organic carbon (TOC)	mg/kg	--	--	--

Notes:

R - Rejected
J - Estimated concentration
U - Not detected at the associated reporting limit
-- - Not applicable
UJ - Not detected; associated reporting limit is detected
PCBs - Polychlorinated Biphenyls

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-17**	**SS-18**	**SS-21**
	Sample Name:	**SS-38443-112018-JC-017**	**SS-38443-112018-JC-018**	**SS-38443-111918-JC-021**
	Sample Date:	**11/20/2018**	**11/20/2018**	**11/19/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/kg	0.76 U	0.78 U	1.4 U
1,1,2,2-Tetrachloroethane	µg/kg	1.3 U	1.4 U	R
1,1,2-Trichloroethane	µg/kg	1.1 U	1.1 U	1.9 U
1,1-Dichloroethane	µg/kg	0.65 U	0.66 U	1.1 U
1,1-Dichloroethene	µg/kg	0.84 U	0.86 U	1.5 U
1,2,4-Trichlorobenzene	µg/kg	0.53 U	0.55 U	R
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	3.4 U	3.4 U	R
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	0.72 U	0.74 U	1.3 U
1,2-Dichlorobenzene	µg/kg	1.0 U	1.1 U	R
1,2-Dichloroethane	µg/kg	0.72 U	0.74 U	1.3 U
1,2-Dichloropropane	µg/kg	0.79 U	0.81 U	1.4 U
1,3-Dichlorobenzene	µg/kg	0.76 U	0.78 U	R
1,4-Dichlorobenzene	µg/kg	0.82 U	0.84 U	R
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	3.3 U	3.4 U	5.9 U
2-Hexanone	µg/kg	3.8 U	3.9 U	6.7 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	3.5 U	3.5 U	6.1 U
Acetone	µg/kg	20 U	20 U	35 U
Benzene	µg/kg	0.65 U	0.67 U	1.2 U
Bromodichloromethane	µg/kg	0.63 U	0.65 U	1.1 U
Bromoform	µg/kg	2.2 U	2.3 U	4.0 U
Bromomethane (Methyl bromide)	µg/kg	0.92 UJ	0.94 UJ	1.6 U
Carbon disulfide	µg/kg	1.1 U	1.1 U	1.9 U
Carbon tetrachloride	µg/kg	3.0 U	3.1 U	5.4 U
Chlorobenzene	µg/kg	0.85 U	0.87 U	1.5 U
Chloroethane	µg/kg	1.1 U	1.2 U	2.0 U
Chloroform (Trichloromethane)	µg/kg	0.73 U	0.75 U	1.3 U
Chloromethane (Methyl chloride)	µg/kg	0.97 U	1.0 U	1.7 U
cis-1,2-Dichloroethene	µg/kg	0.61 U	0.62 U	1.1 U
cis-1,3-Dichloropropene	µg/kg	1.3 U	1.4 U	2.4 U
Cyclohexane	µg/kg	1.3 U	1.3 U	2.3 U
Dibromochloromethane	µg/kg	2.6 U	2.7 U	4.6 U
Dichlorodifluoromethane (CFC-12)	µg/kg	0.88 U	0.90 U	1.6 U
Ethylbenzene	µg/kg	0.98 U	1.0 U	1.7 U
Isopropyl benzene	µg/kg	0.78 U	0.79 U	1.4 U
Methyl acetate	µg/kg	3.2 U	3.2 U	5.6 U
Methyl cyclohexane	µg/kg	1.1 U	1.2 U	2.0 U
Methyl tert butyl ether (MTBE)	µg/kg	0.76 U	0.78 U	1.4 U
Methylene chloride	µg/kg	11 U	11 U	20 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-17**	**SS-18**	**SS-21**
	Sample Name:	**SS-38443-112018-JC-017**	**SS-38443-112018-JC-018**	**SS-38443-111918-JC-021**
	Sample Date:	**11/20/2018**	**11/20/2018**	**11/19/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
Styrene	µg/kg	1.1 U	1.1 U	1.9 U
Tetrachloroethene	µg/kg	0.68 U	0.70 U	1.2 U
Toluene	µg/kg	0.72 U	0.74 U	1.3 U
trans-1,2-Dichloroethene	µg/kg	0.43 U	0.44 U	0.77 U
trans-1,3-Dichloropropene	µg/kg	0.96 U	0.99 U	1.7 U
Trichloroethene	µg/kg	0.59 U	0.60 U	1.0 U
Trichlorofluoromethane (CFC-11)	µg/kg	1.0 U	1.0 U	1.8 U
Trifluorotrichloroethane (CFC-113)	µg/kg	1.2 U	1.2 U	2.1 U
Vinyl chloride	µg/kg	0.78 U	0.80 U	1.4 U
Xylenes (total)	µg/kg	1.5 U	1.5 U	2.6 U
Semivolatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	12 U	12 U	12 U
2,4,5-Trichlorophenol	µg/kg	82 U	85 U	85 U
2,4,6-Trichlorophenol	µg/kg	76 U	79 U	79 U
2,4-Dichlorophenol	µg/kg	52 U	54 U	54 U
2,4-Dimethylphenol	µg/kg	48 U	49 U	49 U
2,4-Dinitrophenol	µg/kg	170 U	170 U	R
2,4-Dinitrotoluene	µg/kg	74 U	76 U	76 U
2,6-Dinitrotoluene	µg/kg	67 U	69 U	69 U
2-Chloronaphthalene	µg/kg	17 U	17 U	17 U
2-Chlorophenol	µg/kg	12 U	12 U	12 U
2-Methylnaphthalene	µg/kg	2.3 U	2.4 U	1700 J
2-Methylphenol	µg/kg	37 U	38 U	38 U
2-Nitroaniline	µg/kg	48 U	49 U	49 U
2-Nitrophenol	µg/kg	15 U	16 U	16 U
3&4-Methylphenol	µg/kg	35 U	36 U	36 U
3,3'-Dichlorobenzidine	µg/kg	51 U	53 U	R
3-Nitroaniline	µg/kg	58 U	60 U	R
4,6-Dinitro-2-methylphenol	µg/kg	95 U	98 U	R
4-Bromophenyl phenyl ether	µg/kg	17 U	17 U	17 U
4-Chloro-3-methylphenol	µg/kg	54 U	55 U	55 U
4-Chloroaniline	µg/kg	36 U	37 U	R
4-Chlorophenyl phenyl ether	µg/kg	17 U	17 U	17 U
4-Nitroaniline	µg/kg	71 U	74 U	R
4-Nitrophenol	µg/kg	110 U	120 U	120 U
Acenaphthene	µg/kg	3.4 U	3.5 U	44
Acenaphthylene	µg/kg	4.8 U	4.9 U	57

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-17**	**SS-18**	**SS-21**
	Sample Name:	**SS-38443-112018-JC-017**	**SS-38443-112018-JC-018**	**SS-38443-111918-JC-021**
	Sample Date:	**11/20/2018**	**11/20/2018**	**11/19/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Semivolatile Organic Compounds				
Acetophenone	µg/kg	13 U	14 U	380
Anthracene	µg/kg	2.9 U	3.0 U	110
Atrazine	µg/kg	43 U	44 U	44 U
Benzaldehyde	µg/kg	27 U	28 U	290
Benzo(a)anthracene	µg/kg	17 J	4.2 U	480
Benzo(a)pyrene	µg/kg	22	11 U	470
Benzo(b)fluoranthene	µg/kg	28	8.8 J	960
Benzo(g,h,i)perylene	µg/kg	8.7 J	8.7 U	350
Benzo(k)fluoranthene	µg/kg	11 J	8.5 U	250
Biphenyl (1,1-Biphenyl)	µg/kg	20 U	21 U	150
bis(2-Chloroethoxy)methane	µg/kg	14 U	15 U	15 U
bis(2-Chloroethyl)ether	µg/kg	14 U	15 U	15 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	61 U	63 U	240 J
Butyl benzylphthalate (BBP)	µg/kg	26 U	27 U	1200
Caprolactam	µg/kg	89 U	92 U	92 U
Carbazole	µg/kg	23 U	23 U	59 J
Chrysene	µg/kg	20	1.8 U	610
Di-n-butylphthalate (DBP)	µg/kg	26 U	27 U	200
Di-n-octyl phthalate (DnOP)	µg/kg	33 U	34 U	34 U
Dibenz(a,h)anthracene	µg/kg	8.2 U	8.5 U	94
Dibenzofuran	µg/kg	15 U	16 U	420
Diethyl phthalate	µg/kg	37 U	38 U	38 U
Dimethyl phthalate	µg/kg	17 U	17 U	17 U
Fluoranthene	µg/kg	40	11 J	740
Fluorene	µg/kg	3.3 U	3.4 U	49
Hexachlorobenzene	µg/kg	3.4 U	3.5 U	3.5 U
Hexachlorobutadiene	µg/kg	14 U	15 U	15 U
Hexachlorocyclopentadiene	µg/kg	74 U	76 U	R
Hexachloroethane	µg/kg	11 U	11 U	11 U
Indeno(1,2,3-cd)pyrene	µg/kg	8.8 J	9.0 U	260
Isophorone	µg/kg	14 U	15 U	15 U
N-Nitrosodi-n-propylamine	µg/kg	13 U	14 U	14 U
N-Nitrosodiphenylamine	µg/kg	14 U	15 U	15 U
Naphthalene	µg/kg	2.9 U	3.0 U	860
Nitrobenzene	µg/kg	15 U	16 U	16 U
Pentachlorophenol	µg/kg	69 U	71 U	71 U
Phenanthrene	µg/kg	21	4.4 J	1300
Phenol	µg/kg	9.5 U	14 J	9.9 U
Pyrene	µg/kg	34	9.1 J	710

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-17**	**SS-18**	**SS-21**
	Sample Name:	**SS-38443-112018-JC-017**	**SS-38443-112018-JC-018**	**SS-38443-111918-JC-021**
	Sample Date:	**11/20/2018**	**11/20/2018**	**11/19/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Herbicides				
2,4,5-T	µg/kg	--	--	--
2,4,5-TP (Silvex)	µg/kg	--	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/kg	--	--	--
PCBs				
Aroclor-1016 (PCB-1016)	µg/kg	26 U	26 U	140 U
Aroclor-1221 (PCB-1221)	µg/kg	28 U	28 U	150 U
Aroclor-1232 (PCB-1232)	µg/kg	27 U	27 U	140 U
Aroclor-1242 (PCB-1242)	µg/kg	22 U	22 U	770
Aroclor-1248 (PCB-1248)	µg/kg	28 U	28 U	150 U
Aroclor-1254 (PCB-1254)	µg/kg	27 U	27 U	1100
Aroclor-1260 (PCB-1260)	µg/kg	26 U	26 U	140 U
Pesticides				
4,4'-DDD	µg/kg	8.6 U	1.8 U	36 U
4,4'-DDE	µg/kg	8.8 U	1.9 U	37 U
4,4'-DDT	µg/kg	6.6 U	1.4 U	28 U
Aldrin	µg/kg	4.5 U	0.96 U	19 U
alpha-BHC	µg/kg	5.3 U	1.1 U	22 U
alpha-Chlordane	µg/kg	8.7 U	1.9 U	37 U
beta-BHC	µg/kg	10 U	2.2 U	42 U
delta-BHC	µg/kg	9.8 U	2.1 U	41 U
Dieldrin	µg/kg	6.4 U	1.4 U	27 U
Endosulfan I	µg/kg	7.0 U	1.5 U	29 U
Endosulfan II	µg/kg	8.6 U	1.8 U	36 U
Endosulfan sulfate	µg/kg	7.4 U	1.6 U	31 U
Endrin	µg/kg	11 U	2.4 U	46 U
Endrin aldehyde	µg/kg	7.6 U	1.6 U	32 U
Endrin ketone	µg/kg	5.2 U	1.1 U	22 U
gamma-BHC (lindane)	µg/kg	10 U	2.2 U	44 U
gamma-Chlordane	µg/kg	7.1 U	1.5 U	30 U
Heptachlor	µg/kg	9.2 U	2.0 U	39 U
Heptachlor epoxide	µg/kg	8.4 U	1.8 U	35 U
Methoxychlor	µg/kg	38 UJ	8.2 U	160 U
Toxaphene	µg/kg	150 U	31 U	610 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-17**	**SS-18**	**SS-21**
	Sample Name:	**SS-38443-112018-JC-017**	**SS-38443-112018-JC-018**	**SS-38443-111918-JC-021**
	Sample Date:	**11/20/2018**	**11/20/2018**	**11/19/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs)				
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
Total heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
Total hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
Total pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
Total tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Metals				
Aluminum	mg/kg	14000	13000	4500 J
Antimony	mg/kg	0.27 J	0.36 J	2.2 J
Arsenic	mg/kg	14	10	11
Barium	mg/kg	95	90	150 J
Beryllium	mg/kg	0.59	0.53	0.29
Cadmium	mg/kg	0.20 J	0.33	3.5
Calcium	mg/kg	3600	11000	1800
Chromium	mg/kg	19	19	13
Chromium III (trivalent)	mg/kg	19	19	13
Chromium VI (hexavalent)	mg/kg	0.57 U	0.59 U	1.5 U
Cobalt	mg/kg	8.4	7.9	3.9

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-17**	**SS-18**	**SS-21**
	Sample Name:	**SS-38443-112018-JC-017**	**SS-38443-112018-JC-018**	**SS-38443-111918-JC-021**
	Sample Date:	**11/20/2018**	**11/20/2018**	**11/19/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Metals				
Copper	mg/kg	20	21	320 J
Iron	mg/kg	25000	22000	7900
Lead	mg/kg	16	24	210 J
Lead - coarse fraction	mg/kg	--	--	--
Lead - fine fraction	mg/kg	--	--	--
Lead - total (calculated by fine/coarse fraction)	mg/kg	--	--	--
Magnesium	mg/kg	3300	7100	580
Manganese	mg/kg	580	590	76
Mercury	mg/kg	0.035 J	0.051 J	0.064 J
Nickel	mg/kg	19	19	36 J
Potassium	mg/kg	1300	1500	470
Selenium	mg/kg	1.2	1.3	1.2
Silver	mg/kg	0.038 J	0.083 J	0.19 J
Sodium	mg/kg	58 U	57 U	59 U
Thallium	mg/kg	0.24	0.23	0.13 J
Vanadium	mg/kg	35	35	9.1
Zinc	mg/kg	58	100	810 J
General Chemistry				
Cyanide (total)	mg/kg	0.22 U	0.24 U	0.35 J
Soot carbon	mg/kg	--	--	--
Total organic carbon (TOC)	mg/kg	--	--	--

Notes:

R - Rejected
J - Estimated concentration
U - Not detected at the associated reporting limit
-- - Not applicable
UJ - Not detected; associated reporting limit is detected
PCBs - Polychlorinated Biphenyls

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-23**	**SS-26**	**SS-27**
	Sample Name:	**SS-38443-111918-JC-023**	**SS-38443-102618-JC-026**	**SS-38443-102618-JC-027**
	Sample Date:	**11/19/2018**	**10/26/2018**	**10/26/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/kg	1.1 U	R	0.85 U
1,1,2,2-Tetrachloroethane	µg/kg	1.9 U	R	R
1,1,2-Trichloroethane	µg/kg	1.5 U	R	1.2 U
1,1-Dichloroethane	µg/kg	0.94 U	R	0.72 U
1,1-Dichloroethene	µg/kg	1.2 U	R	0.93 U
1,2,4-Trichlorobenzene	µg/kg	0.78 U	R	R
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	4.9 U	R	R
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	1.0 U	R	0.80 U
1,2-Dichlorobenzene	µg/kg	1.5 U	R	R
1,2-Dichloroethane	µg/kg	1.0 U	R	0.80 U
1,2-Dichloropropane	µg/kg	1.2 U	R	0.88 U
1,3-Dichlorobenzene	µg/kg	1.1 U	1.9 J	R
1,4-Dichlorobenzene	µg/kg	1.2 U	R	R
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	4.8 U	R	3.7 U
2-Hexanone	µg/kg	5.6 U	R	4.2 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	5.0 U	R	3.8 U
Acetone	µg/kg	29 U	R	22 U
Benzene	µg/kg	0.95 U	R	0.72 U
Bromodichloromethane	µg/kg	0.92 U	R	0.70 U
Bromoform	µg/kg	3.3 U	R	2.5 U
Bromomethane (Methyl bromide)	µg/kg	1.3 U	R	1.0 U
Carbon disulfide	µg/kg	1.6 U	R	1.2 U
Carbon tetrachloride	µg/kg	4.4 U	R	3.4 U
Chlorobenzene	µg/kg	1.2 U	R	0.95 U
Chloroethane	µg/kg	1.7 U	R	1.3 U
Chloroform (Trichloromethane)	µg/kg	1.1 U	R	0.82 U
Chloromethane (Methyl chloride)	µg/kg	1.4 U	R	1.1 U
cis-1,2-Dichloroethene	µg/kg	0.88 U	R	0.67 U
cis-1,3-Dichloropropene	µg/kg	2.0 U	R	1.5 U
Cyclohexane	µg/kg	1.9 U	R	1.4 U
Dibromochloromethane	µg/kg	3.8 U	R	2.9 U
Dichlorodifluoromethane (CFC-12)	µg/kg	1.3 U	R	0.98 U
Ethylbenzene	µg/kg	1.4 U	R	1.1 U
Isopropyl benzene	µg/kg	1.1 U	R	0.86 U
Methyl acetate	µg/kg	4.6 U	R	3.5 U
Methyl cyclohexane	µg/kg	1.7 U	R	1.3 U
Methyl tert butyl ether (MTBE)	µg/kg	1.1 U	R	0.85 U
Methylene chloride	µg/kg	16 U	55 J	12 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-23**	**SS-26**	**SS-27**
	Sample Name:	**SS-38443-111918-JC-023**	**SS-38443-102618-JC-026**	**SS-38443-102618-JC-027**
	Sample Date:	**11/19/2018**	**10/26/2018**	**10/26/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
Styrene	µg/kg	1.6 U	R	1.2 U
Tetrachloroethene	µg/kg	0.99 U	3.7 J	0.76 U
Toluene	µg/kg	1.1 U	R	0.80 U
trans-1,2-Dichloroethene	µg/kg	0.63 U	R	0.48 U
trans-1,3-Dichloropropene	µg/kg	1.4 U	R	1.1 U
Trichloroethene	µg/kg	0.86 U	3.5 J	0.65 U
Trichlorofluoromethane (CFC-11)	µg/kg	1.5 U	R	1.1 U
Trifluorotrichloroethane (CFC-113)	µg/kg	1.7 U	R	1.3 U
Vinyl chloride	µg/kg	1.1 U	R	0.87 U
Xylenes (total)	µg/kg	2.2 U	R	1.6 U
Semivolatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	12 U	18 UJ	11 UJ
2,4,5-Trichlorophenol	µg/kg	85 U	130 U	77 U
2,4,6-Trichlorophenol	µg/kg	79 U	120 U	71 U
2,4-Dichlorophenol	µg/kg	54 U	81 U	49 U
2,4-Dimethylphenol	µg/kg	49 U	73 U	45 U
2,4-Dinitrophenol	µg/kg	180 U	260 U	160 U
2,4-Dinitrotoluene	µg/kg	77 U	110 U	69 U
2,6-Dinitrotoluene	µg/kg	69 U	100 U	62 U
2-Chloronaphthalene	µg/kg	17 U	26 U	16 U
2-Chlorophenol	µg/kg	12 U	18 U	11 U
2-Methylnaphthalene	µg/kg	1300	1900	13 J
2-Methylphenol	µg/kg	38 U	57 U	35 U
2-Nitroaniline	µg/kg	49 U	73 U	45 U
2-Nitrophenol	µg/kg	16 U	24 U	14 U
3&4-Methylphenol	µg/kg	36 U	71 J	32 U
3,3'-Dichlorobenzidine	µg/kg	53 U	79 U	48 U
3-Nitroaniline	µg/kg	61 U	90 U	55 U
4,6-Dinitro-2-methylphenol	µg/kg	99 U	150 U	89 U
4-Bromophenyl phenyl ether	µg/kg	17 U	26 U	16 U
4-Chloro-3-methylphenol	µg/kg	56 U	83 U	50 U
4-Chloroaniline	µg/kg	37 U	55 U	33 U
4-Chlorophenyl phenyl ether	µg/kg	17 U	26 U	16 U
4-Nitroaniline	µg/kg	74 U	110 U	67 U
4-Nitrophenol	µg/kg	120 U	170 U	100 U
Acenaphthene	µg/kg	24	52	3.2 U
Acenaphthylene	µg/kg	35	380	4.5 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-23**	**SS-26**	**SS-27**
	Sample Name:	**SS-38443-111918-JC-023**	**SS-38443-102618-JC-026**	**SS-38443-102618-JC-027**
	Sample Date:	**11/19/2018**	**10/26/2018**	**10/26/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Semivolatile Organic Compounds				
Acetophenone	µg/kg	120	150 J	38 J
Anthracene	µg/kg	66	250	5.8 J
Atrazine	µg/kg	44 U	66 U	40 U
Benzaldehyde	µg/kg	140	200	26 U
Benzo(a)anthracene	µg/kg	260	1500	11 J
Benzo(a)pyrene	µg/kg	230	1500	10 U
Benzo(b)fluoranthene	µg/kg	400	2600	12 J
Benzo(g,h,i)perylene	µg/kg	200	1600	7.9 U
Benzo(k)fluoranthene	µg/kg	110	800	7.7 U
Biphenyl (1,1-Biphenyl)	µg/kg	86	160	19 U
bis(2-Chloroethoxy)methane	µg/kg	15 U	22 U	13 U
bis(2-Chloroethyl)ether	µg/kg	15 U	22 U	13 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	88	120 J	57 U
Butyl benzylphthalate (BBP)	µg/kg	27 J	40 U	24 U
Caprolactam	µg/kg	93 U	140 U	84 U
Carbazole	µg/kg	36 J	77 J	21 U
Chrysene	µg/kg	300	1700	17
Di-n-butylphthalate (DBP)	µg/kg	31 U	40 U	24 U
Di-n-octyl phthalate (DnOP)	µg/kg	35 U	51 U	31 U
Dibenz(a,h)anthracene	µg/kg	50	410	7.7 U
Dibenzofuran	µg/kg	320	470	14 U
Diethyl phthalate	µg/kg	38 U	57 U	35 U
Dimethyl phthalate	µg/kg	17 U	26 U	16 U
Fluoranthene	µg/kg	420	2000	14 J
Fluorene	µg/kg	3.4 U	75	4.4 J
Hexachlorobenzene	µg/kg	3.5 U	5.2 U	3.2 U
Hexachlorobutadiene	µg/kg	15 U	22 U	13 U
Hexachlorocyclopentadiene	µg/kg	77 U	110 U	69 U
Hexachloroethane	µg/kg	11 U	17 U	10 U
Indeno(1,2,3-cd)pyrene	µg/kg	140	1300	8.2 U
Isophorone	µg/kg	15 U	22 U	13 U
N-Nitrosodi-n-propylamine	µg/kg	14 U	20 U	12 U
N-Nitrosodiphenylamine	µg/kg	15 U	22 U	13 U
Naphthalene	µg/kg	850	1400	20
Nitrobenzene	µg/kg	16 U	24 U	14 U
Pentachlorophenol	µg/kg	72 U	110 U	65 U
Phenanthrene	µg/kg	660	1200	32
Phenol	µg/kg	9.9 U	48 J	8.9 U
Pyrene	µg/kg	380	2300	14 J

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-23**	**SS-26**	**SS-27**
	Sample Name:	**SS-38443-111918-JC-023**	**SS-38443-102618-JC-026**	**SS-38443-102618-JC-027**
	Sample Date:	**11/19/2018**	**10/26/2018**	**10/26/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Herbicides				
2,4,5-T	µg/kg	--	--	--
2,4,5-TP (Silvex)	µg/kg	--	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/kg	--	--	--
PCBs				
Aroclor-1016 (PCB-1016)	µg/kg	27 U	40 U	24 U
Aroclor-1221 (PCB-1221)	µg/kg	30 U	43 U	26 U
Aroclor-1232 (PCB-1232)	µg/kg	28 U	42 U	25 U
Aroclor-1242 (PCB-1242)	µg/kg	23 U	34 U	21 U
Aroclor-1248 (PCB-1248)	µg/kg	30 U	43 U	26 U
Aroclor-1254 (PCB-1254)	µg/kg	110	42 U	25 U
Aroclor-1260 (PCB-1260)	µg/kg	27 U	200	24 U
Pesticides				
4,4'-DDD	µg/kg	28 J	27 U	16 U
4,4'-DDE	µg/kg	19 U	27 U	17 U
4,4'-DDT	µg/kg	14 U	20 U	12 U
Aldrin	µg/kg	9.5 U	14 U	8.5 U
alpha-BHC	µg/kg	11 U	16 U	10 U
alpha-Chlordane	µg/kg	18 U	27 U	17 U
beta-BHC	µg/kg	21 U	31 U	19 U
delta-BHC	µg/kg	21 U	31 U	19 U
Dieldrin	µg/kg	14 U	20 U	12 U
Endosulfan I	µg/kg	15 U	22 U	13 U
Endosulfan II	µg/kg	18 U	27 U	16 U
Endosulfan sulfate	µg/kg	16 U	23 U	14 U
Endrin	µg/kg	23 U	34 U	21 U
Endrin aldehyde	µg/kg	16 U	24 U	14 U
Endrin ketone	µg/kg	11 U	16 U	9.8 U
gamma-BHC (lindane)	µg/kg	22 U	32 U	20 U
gamma-Chlordane	µg/kg	15 U	22 U	14 U
Heptachlor	µg/kg	19 U	29 U	17 U
Heptachlor epoxide	µg/kg	18 U	26 U	16 U
Methoxychlor	µg/kg	81 U	120 UJ	72 UJ
Toxaphene	µg/kg	310 U	450 U	280 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-23**	**SS-26**	**SS-27**
	Sample Name:	**SS-38443-111918-JC-023**	**SS-38443-102618-JC-026**	**SS-38443-102618-JC-027**
	Sample Date:	**11/19/2018**	**10/26/2018**	**10/26/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs)				
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	--	120	53 J
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	--	38 U	7.7 UJ
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	48	7.3
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	--	57	2.3 U
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	--	0.63 U	0.31 U
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	11	0.055 U
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	7.5 J	0.22 U
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	17 J	0.061 U
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	5.6 J	0.23 U
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	18 J	0.053 U
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	--	0.65 U	0.31 U
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	10 J	0.15 U
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	3.1 J	0.12 U
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	4.2 J	0.22 U
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	3.9 J	0.11 U
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	0.62 U	0.39 U
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	--	1.8	0.29 U
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	82 J	13 J
Total heptachlorodibenzofuran (HpCDF)	pg/g	--	94 J	4.0 J
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	94 J	2.9 J
Total hexachlorodibenzofuran (HxCDF)	pg/g	--	47 J	1.4 J
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	58 J	0.53 J
Total pentachlorodibenzofuran (PeCDF)	pg/g	--	43 J	0.12 U
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	10 J	0.39 U
Total tetrachlorodibenzofuran (TCDF)	pg/g	--	130 J	0.29 U
Metals				
Aluminum	mg/kg	3900 J	7500	1200
Antimony	mg/kg	30 J	1.6 J	0.57 J
Arsenic	mg/kg	10	41	3.8
Barium	mg/kg	270 J	310	6.3
Beryllium	mg/kg	0.56	5.8	0.063 J
Cadmium	mg/kg	2.2	0.76	0.13 J
Calcium	mg/kg	51000	26000	590
Chromium	mg/kg	22	22	43
Chromium III (trivalent)	mg/kg	22	21	42
Chromium VI (hexavalent)	mg/kg	0.60 U	0.91 J	0.56 J
Cobalt	mg/kg	7.3	16	4.3

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-23**	**SS-26**	**SS-27**
	Sample Name:	**SS-38443-111918-JC-023**	**SS-38443-102618-JC-026**	**SS-38443-102618-JC-027**
	Sample Date:	**11/19/2018**	**10/26/2018**	**10/26/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Metals				
Copper	mg/kg	320 J	85	88
Iron	mg/kg	19000	9700	47000
Lead	mg/kg	360 J	84	6.4
Lead - coarse fraction	mg/kg	240 J	--	--
Lead - fine fraction	mg/kg	360	--	--
Lead - total (calculated by fine/coarse fraction)	mg/kg	260	--	--
Magnesium	mg/kg	23000	13000	340
Manganese	mg/kg	270	120	510
Mercury	mg/kg	0.12 J	0.097 J	0.019 U
Nickel	mg/kg	170 J	30	51
Potassium	mg/kg	690	1000	81 J
Selenium	mg/kg	1.6	6.3	0.23 J
Silver	mg/kg	0.60	0.23 J	0.082 J
Sodium	mg/kg	120 J	290 J	44 J
Thallium	mg/kg	0.30	2.4	0.039 U
Vanadium	mg/kg	21	60	2.7
Zinc	mg/kg	430 J	160	18
General Chemistry				
Cyanide (total)	mg/kg	0.24 U	0.54 J	0.23 U
Soot carbon	mg/kg	--	67000	1300
Total organic carbon (TOC)	mg/kg	--	32000	6900

Notes:

R - Rejected
J - Estimated concentration
U - Not detected at the associated reporting limit
-- - Not applicable
UJ - Not detected; associated reporting limit is detected
PCBs - Polychlorinated Biphenyls

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-28**	**SS-32**	**SS-33**
	Sample Name:	**SS-38443-102618-JC-028**	**SS-38443-103118-JC-032**	**SS-38443-102618-JC-033**
	Sample Date:	**10/26/2018**	**10/31/2018**	**10/26/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/kg	0.87 U	0.97 U	1.5 U
1,1,2,2-Tetrachloroethane	µg/kg	1.5 U	1.7 U	R
1,1,2-Trichloroethane	µg/kg	1.2 U	1.3 U	R
1,1-Dichloroethane	µg/kg	0.74 U	0.82 U	1.3 U
1,1-Dichloroethene	µg/kg	0.96 U	1.1 U	1.7 U
1,2,4-Trichlorobenzene	µg/kg	0.61 U	0.68 U	R
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	3.8 U	4.3 U	R
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	0.82 U	0.91 U	R
1,2-Dichlorobenzene	µg/kg	1.2 U	1.3 U	R
1,2-Dichloroethane	µg/kg	0.82 U	0.92 U	1.4 U
1,2-Dichloropropane	µg/kg	0.90 U	1.0 U	1.6 U
1,3-Dichlorobenzene	µg/kg	0.87 U	0.97 U	R
1,4-Dichlorobenzene	µg/kg	0.94 U	1.0 U	R
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	5.2 J	4.2 U	7.5 J
2-Hexanone	µg/kg	4.3 U	4.8 U	R
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	3.9 U	4.4 U	R
Acetone	µg/kg	22 U	25 U	39 U
Benzene	µg/kg	0.74 U	0.83 U	1.3 U
Bromodichloromethane	µg/kg	0.72 U	0.81 U	1.3 U
Bromoform	µg/kg	2.5 U	2.8 U	R
Bromomethane (Methyl bromide)	µg/kg	1.0 U	1.2 U	1.8 U
Carbon disulfide	µg/kg	1.2 U	1.4 U	2.2 U
Carbon tetrachloride	µg/kg	3.5 U	3.9 U	6.1 U
Chlorobenzene	µg/kg	0.97 U	1.1 U	R
Chloroethane	µg/kg	1.3 U	1.4 U	2.3 U
Chloroform (Trichloromethane)	µg/kg	0.84 U	0.94 U	1.5 U
Chloromethane (Methyl chloride)	µg/kg	1.1 U	1.2 U	1.9 U
cis-1,2-Dichloroethene	µg/kg	0.69 U	0.77 U	1.2 U
cis-1,3-Dichloropropene	µg/kg	1.5 U	1.7 U	2.7 U
Cyclohexane	µg/kg	1.5 U	1.6 U	2.6 U
Dibromochloromethane	µg/kg	3.0 U	3.3 U	R
Dichlorodifluoromethane (CFC-12)	µg/kg	1.0 U	1.1 U	1.8 U
Ethylbenzene	µg/kg	1.1 U	1.2 U	R
Isopropyl benzene	µg/kg	0.88 U	0.99 U	R
Methyl acetate	µg/kg	3.6 U	4.0 U	6.4 U
Methyl cyclohexane	µg/kg	1.3 U	1.5 U	2.3 U
Methyl tert butyl ether (MTBE)	µg/kg	0.87 U	0.97 U	1.5 U
Methylene chloride	µg/kg	13 U	14 U	22 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-28**	**SS-32**	**SS-33**
	Sample Name:	**SS-38443-102618-JC-028**	**SS-38443-103118-JC-032**	**SS-38443-102618-JC-033**
	Sample Date:	**10/26/2018**	**10/31/2018**	**10/26/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
Styrene	µg/kg	1.2 U	1.4 U	R
Tetrachloroethene	µg/kg	0.78 U	0.87 U	R
Toluene	µg/kg	0.82 U	0.92 U	R
trans-1,2-Dichloroethene	µg/kg	0.49 U	0.55 U	0.87 U
trans-1,3-Dichloropropene	µg/kg	1.1 U	1.2 U	R
Trichloroethene	µg/kg	0.67 U	0.75 U	1.2 U
Trichlorofluoromethane (CFC-11)	µg/kg	1.1 U	1.3 U	2.0 U
Trifluorotrichloroethane (CFC-113)	µg/kg	1.4 U	1.5 U	2.4 U
Vinyl chloride	µg/kg	0.89 U	0.99 U	1.6 U
Xylenes (total)	µg/kg	1.7 U	1.9 U	R
Semivolatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	12 U	10 U	150 U
2,4,5-Trichlorophenol	µg/kg	86 U	71 U	1000 U
2,4,6-Trichlorophenol	µg/kg	80 U	66 U	950 U
2,4-Dichlorophenol	µg/kg	55 U	45 U	650 U
2,4-Dimethylphenol	µg/kg	50 U	41 U	590 U
2,4-Dinitrophenol	µg/kg	180 U	150 U	2100 U
2,4-Dinitrotoluene	µg/kg	77 U	64 U	920 U
2,6-Dinitrotoluene	µg/kg	70 U	58 U	830 U
2-Chloronaphthalene	µg/kg	17 U	14 U	210 U
2-Chlorophenol	µg/kg	12 U	10 U	150 U
2-Methylnaphthalene	µg/kg	19	69	850
2-Methylphenol	µg/kg	39 U	32 U	460 U
2-Nitroaniline	µg/kg	50 U	41 U	590 U
2-Nitrophenol	µg/kg	16 U	13 U	190 U
3&4-Methylphenol	µg/kg	36 U	30 U	430 U
3,3'-Dichlorobenzidine	µg/kg	54 U	44 U	640 U
3-Nitroaniline	µg/kg	61 U	51 U	730 U
4,6-Dinitro-2-methylphenol	µg/kg	100 U	83 U	1200 U
4-Bromophenyl phenyl ether	µg/kg	17 U	14 U	210 U
4-Chloro-3-methylphenol	µg/kg	56 U	47 U	670 U
4-Chloroaniline	µg/kg	37 U	31 U	440 U
4-Chlorophenyl phenyl ether	µg/kg	17 U	14 U	210 U
4-Nitroaniline	µg/kg	75 U	62 U	890 U
4-Nitrophenol	µg/kg	120 U	97 U	1400 U
Acenaphthene	µg/kg	3.6 U	17	520
Acenaphthylene	µg/kg	5.0 U	28	1100

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-28**	**SS-32**	**SS-33**
	Sample Name:	**SS-38443-102618-JC-028**	**SS-38443-103118-JC-032**	**SS-38443-102618-JC-033**
	Sample Date:	**10/26/2018**	**10/31/2018**	**10/26/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Semivolatile Organic Compounds				
Acetophenone	µg/kg	14 U	11 U	160 U
Anthracene	µg/kg	4.9 J	39	2100
Atrazine	µg/kg	45 U	37 U	530 U
Benzaldehyde	µg/kg	29 U	24 U	340 U
Benzo(a)anthracene	µg/kg	11 J	180	6900
Benzo(a)pyrene	µg/kg	14 J	210	6000
Benzo(b)fluoranthene	µg/kg	18 J	340	8500
Benzo(g,h,i)perylene	µg/kg	10 J	93	3900
Benzo(k)fluoranthene	µg/kg	8.6 U	130	2900
Biphenyl (1,1-Biphenyl)	µg/kg	21 U	18 U	250 U
bis(2-Chloroethoxy)methane	µg/kg	15 U	12 U	180 U
bis(2-Chloroethyl)ether	µg/kg	15 U	12 U	180 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	92	110	760 U
Butyl benzylphthalate (BBP)	µg/kg	27 U	23 U	330 U
Caprolactam	µg/kg	94 U	78 U	1100 U
Carbazole	µg/kg	24 U	42 J	870
Chrysene	µg/kg	14 J	220	6700
Di-n-butylphthalate (DBP)	µg/kg	27 U	23 U	330 U
Di-n-octyl phthalate (DnOP)	µg/kg	35 U	29 U	410 U
Dibenz(a,h)anthracene	µg/kg	8.6 U	31	1200
Dibenzofuran	µg/kg	16 U	24 J	530 J
Diethyl phthalate	µg/kg	39 U	32 U	460 U
Dimethyl phthalate	µg/kg	17 U	14 U	210 U
Fluoranthene	µg/kg	16 J	300	15000
Fluorene	µg/kg	3.4 U	17	860
Hexachlorobenzene	µg/kg	3.6 U	2.9 U	42 U
Hexachlorobutadiene	µg/kg	15 U	12 U	180 U
Hexachlorocyclopentadiene	µg/kg	77 U	64 U	920 U
Hexachloroethane	µg/kg	11 U	9.3 U	130 U
Indeno(1,2,3-cd)pyrene	µg/kg	9.2 U	94	3800
Isophorone	µg/kg	15 U	12 U	180 U
N-Nitrosodi-n-propylamine	µg/kg	14 U	11 U	160 U
N-Nitrosodiphenylamine	µg/kg	15 U	12 U	180 U
Naphthalene	µg/kg	25	57	700
Nitrobenzene	µg/kg	16 U	13 U	190 U
Pentachlorophenol	µg/kg	72 U	60 UJ	860 U
Phenanthrene	µg/kg	22	200	7900
Phenol	µg/kg	10 U	8.3 U	120 U
Pyrene	µg/kg	22	300	12000

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-28**	**SS-32**	**SS-33**
	Sample Name:	**SS-38443-102618-JC-028**	**SS-38443-103118-JC-032**	**SS-38443-102618-JC-033**
	Sample Date:	**10/26/2018**	**10/31/2018**	**10/26/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Herbicides				
2,4,5-T	µg/kg	--	--	--
2,4,5-TP (Silvex)	µg/kg	--	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/kg	--	--	--
PCBs				
Aroclor-1016 (PCB-1016)	µg/kg	27 U	22 U	32 U
Aroclor-1221 (PCB-1221)	µg/kg	30 U	24 U	35 U
Aroclor-1232 (PCB-1232)	µg/kg	28 U	23 U	34 U
Aroclor-1242 (PCB-1242)	µg/kg	23 U	19 U	28 U
Aroclor-1248 (PCB-1248)	µg/kg	30 U	24 U	35 U
Aroclor-1254 (PCB-1254)	µg/kg	28 U	23 U	130
Aroclor-1260 (PCB-1260)	µg/kg	27 U	22 U	32 U
Pesticides				
4,4'-DDD	µg/kg	1.8 U	1.5 U	110 U
4,4'-DDE	µg/kg	1.9 U	1.5 U	110 U
4,4'-DDT	µg/kg	1.4 U	1.2 U	83 U
Aldrin	µg/kg	0.95 U	0.78 U	56 U
alpha-BHC	µg/kg	1.1 U	0.93 U	67 U
alpha-Chlordane	µg/kg	1.8 U	1.5 U	110 U
beta-BHC	µg/kg	2.1 U	1.8 U	130 U
delta-BHC	µg/kg	100 U	1.7 U	120 U
Dieldrin	µg/kg	1.4 U	1.1 U	80 U
Endosulfan I	µg/kg	1.5 U	1.2 U	88 U
Endosulfan II	µg/kg	1.8 U	1.5 U	110 U
Endosulfan sulfate	µg/kg	79 U	1.3 U	94 U
Endrin	µg/kg	2.3 U	1.9 U	140 U
Endrin aldehyde	µg/kg	81 U	1.3 U	96 U
Endrin ketone	µg/kg	1.1 U	0.91 U	65 U
gamma-BHC (lindane)	µg/kg	2.2 U	1.8 U	130 U
gamma-Chlordane	µg/kg	1.5 U	1.3 U	90 U
Heptachlor	µg/kg	1.9 U	1.6 U	120 U
Heptachlor epoxide	µg/kg	1.8 U	1.5 U	110 U
Methoxychlor	µg/kg	8.1 UJ	6.7 U	480 U
Toxaphene	µg/kg	31 U	25 U	1800 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-28**	**SS-32**	**SS-33**
	Sample Name:	**SS-38443-102618-JC-028**	**SS-38443-103118-JC-032**	**SS-38443-102618-JC-033**
	Sample Date:	**10/26/2018**	**10/31/2018**	**10/26/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs)				
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	41 J	--	6200 J
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	14 UJ	--	11 U
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	7.6	--	62
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	8.3 U	--	7.8 U
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	1.8 J	--	0.32 U
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	0.13 U	--	0.81 J
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	4.9 J	--	1.2 J
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	0.99 J	--	1.9 J
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	1.8 J	--	2.6 J
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	0.98 J	--	2.6 J
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	0.47 U	--	0.24 U
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	0.12 U	--	0.18 U
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	0.26 U	--	0.14 U
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	1.9 J	--	0.21 U
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	2.9 J	--	0.14 U
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	0.42 U	--	0.38 U
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	1.3	--	1.0 J
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	14 J	--	130 J
Total heptachlorodibenzofuran (HpCDF)	pg/g	15 J	--	15 J
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	6.6 J	--	22 J
Total hexachlorodibenzofuran (HxCDF)	pg/g	14 J	--	14 J
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	1.4 J	--	3.7 J
Total pentachlorodibenzofuran (PeCDF)	pg/g	20 J	--	18 J
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	0.42 U	--	2.1 J
Total tetrachlorodibenzofuran (TCDF)	pg/g	17 J	--	33 J
Metals				
Aluminum	mg/kg	1500	2400	6600
Antimony	mg/kg	0.21 J	0.10 U	3.4 J
Arsenic	mg/kg	3.0	4.0	17
Barium	mg/kg	9.2	20	220
Beryllium	mg/kg	0.061 J	0.33	2.0
Cadmium	mg/kg	1.2	0.13 J	1.1
Calcium	mg/kg	6600	140000	45000
Chromium	mg/kg	31	6.2	17
Chromium III (trivalent)	mg/kg	31	6.2	17
Chromium VI (hexavalent)	mg/kg	0.30 U	0.25 U	0.36 U
Cobalt	mg/kg	2.1	2.6	8.9

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-28**	**SS-32**	**SS-33**
	Sample Name:	**SS-38443-102618-JC-028**	**SS-38443-103118-JC-032**	**SS-38443-102618-JC-033**
	Sample Date:	**10/26/2018**	**10/31/2018**	**10/26/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Metals				
Copper	mg/kg	34	8.1	210
Iron	mg/kg	27000	7400	13000
Lead	mg/kg	26	4.5	170
Lead - coarse fraction	mg/kg	48	--	200
Lead - fine fraction	mg/kg	260	--	290
Lead - total (calculated by fine/coarse fraction)	mg/kg	84	--	220
Magnesium	mg/kg	500	43000	18000
Manganese	mg/kg	1400	370	200
Mercury	mg/kg	0.024 U	0.021 U	0.32
Nickel	mg/kg	22	7.4	30
Potassium	mg/kg	110 J	510	1200
Selenium	mg/kg	0.36 J	0.32 J	3.1
Silver	mg/kg	0.11 J	0.018 U	0.35
Sodium	mg/kg	91 J	130 J	240 J
Thallium	mg/kg	0.054 U	0.10 J	0.89
Vanadium	mg/kg	2.0	9.4	27
Zinc	mg/kg	66	31	220
General Chemistry				
Cyanide (total)	mg/kg	0.24 U	0.20 U	0.31 J
Soot carbon	mg/kg	1900	--	50000
Total organic carbon (TOC)	mg/kg	5200	--	31000

Notes:

R - Rejected
J - Estimated concentration
U - Not detected at the associated reporting limit
-- - Not applicable
UJ - Not detected; associated reporting limit is detected
PCBs - Polychlorinated Biphenyls

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-34**	**SS-37**	**SS-38**
	Sample Name:	**SS-38443-102618-JC-034**	**SS-38443-112018-JC-037**	**SS-38443-112018-JC-038**
	Sample Date:	**10/26/2018**	**11/20/2018**	**11/20/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/kg	2.1 UJ	0.75 U	0.76 U
1,1,2,2-Tetrachloroethane	µg/kg	R	1.3 U	1.3 U
1,1,2-Trichloroethane	µg/kg	R	1.0 U	1.1 U
1,1-Dichloroethane	µg/kg	1.8 UJ	0.63 U	0.65 U
1,1-Dichloroethene	µg/kg	2.3 UJ	0.82 U	0.84 U
1,2,4-Trichlorobenzene	µg/kg	R	0.52 U	0.53 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	R	3.3 U	3.4 U
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	R	0.70 U	0.72 U
1,2-Dichlorobenzene	µg/kg	R	1.0 U	1.0 U
1,2-Dichloroethane	µg/kg	2.0 UJ	0.70 U	0.72 U
1,2-Dichloropropane	µg/kg	2.2 UJ	0.77 U	0.79 U
1,3-Dichlorobenzene	µg/kg	R	0.74 U	0.76 U
1,4-Dichlorobenzene	µg/kg	R	0.80 U	0.82 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	37 J	3.2 U	3.3 U
2-Hexanone	µg/kg	R	3.7 U	3.8 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	R	3.4 U	3.5 U
Acetone	µg/kg	53 UJ	19 U	20 U
Benzene	µg/kg	1.8 UJ	0.64 U	0.65 U
Bromodichloromethane	µg/kg	1.7 UJ	0.62 U	0.63 U
Bromoform	µg/kg	R	2.2 U	2.2 U
Bromomethane (Methyl bromide)	µg/kg	2.5 UJ	0.90 U	0.92 U
Carbon disulfide	µg/kg	2.9 UJ	1.1 U	1.1 U
Carbon tetrachloride	µg/kg	8.2 UJ	3.0 U	3.0 U
Chlorobenzene	µg/kg	R	0.83 U	0.85 U
Chloroethane	µg/kg	3.1 UJ	1.1 U	1.1 U
Chloroform (Trichloromethane)	µg/kg	2.0 UJ	0.72 U	0.73 U
Chloromethane (Methyl chloride)	µg/kg	2.6 UJ	0.95 U	0.97 U
cis-1,2-Dichloroethene	µg/kg	1.6 UJ	0.59 U	0.61 U
cis-1,3-Dichloropropene	µg/kg	3.6 UJ	1.3 U	1.3 U
Cyclohexane	µg/kg	3.5 UJ	1.3 U	1.3 U
Dibromochloromethane	µg/kg	R	2.5 U	2.6 U
Dichlorodifluoromethane (CFC-12)	µg/kg	2.4 UJ	0.86 U	0.88 U
Ethylbenzene	µg/kg	R	0.95 U	0.98 U
Isopropyl benzene	µg/kg	R	0.76 U	0.78 U
Methyl acetate	µg/kg	8.6 UJ	3.1 U	3.2 U
Methyl cyclohexane	µg/kg	3.1 UJ	1.1 U	1.1 U
Methyl tert butyl ether (MTBE)	µg/kg	2.1 UJ	0.75 U	0.76 U
Methylene chloride	µg/kg	30 UJ	11 U	11 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-34**	**SS-37**	**SS-38**
	Sample Name:	**SS-38443-102618-JC-034**	**SS-38443-112018-JC-037**	**SS-38443-112018-JC-038**
	Sample Date:	**10/26/2018**	**11/20/2018**	**11/20/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
Styrene	µg/kg	R	1.1 U	1.1 U
Tetrachloroethene	µg/kg	R	0.66 U	0.68 U
Toluene	µg/kg	R	0.70 U	0.72 U
trans-1,2-Dichloroethene	µg/kg	1.2 UJ	0.42 U	0.43 U
trans-1,3-Dichloropropene	µg/kg	R	0.94 U	0.96 U
Trichloroethene	µg/kg	1.6 UJ	0.58 U	0.59 U
Trichlorofluoromethane (CFC-11)	µg/kg	2.7 UJ	0.98 U	1.0 U
Trifluorotrichloroethane (CFC-113)	µg/kg	3.2 UJ	1.2 U	1.2 U
Vinyl chloride	µg/kg	2.1 UJ	0.76 U	0.78 U
Xylenes (total)	µg/kg	R	1.4 U	1.5 U
Semivolatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	20 UJ	50 U	11 U
2,4,5-Trichlorophenol	µg/kg	140 UJ	340 U	78 U
2,4,6-Trichlorophenol	µg/kg	130 UJ	320 U	73 U
2,4-Dichlorophenol	µg/kg	90 UJ	220 U	50 U
2,4-Dimethylphenol	µg/kg	81 UJ	200 U	45 U
2,4-Dinitrophenol	µg/kg	290 UJ	710 U	160 U
2,4-Dinitrotoluene	µg/kg	130 UJ	310 U	70 U
2,6-Dinitrotoluene	µg/kg	110 UJ	280 U	64 U
2-Chloronaphthalene	µg/kg	29 UJ	70 U	16 U
2-Chlorophenol	µg/kg	20 UJ	50 U	11 U
2-Methylnaphthalene	µg/kg	650 J	25 J	12 J
2-Methylphenol	µg/kg	63 UJ	150 U	35 U
2-Nitroaniline	µg/kg	81 UJ	200 U	45 U
2-Nitrophenol	µg/kg	26 UJ	65 U	15 U
3&4-Methylphenol	µg/kg	59 UJ	140 U	33 U
3,3'-Dichlorobenzidine	µg/kg	88 UJ	210 U	49 U
3-Nitroaniline	µg/kg	100 UJ	240 U	56 U
4,6-Dinitro-2-methylphenol	µg/kg	160 UJ	400 U	91 U
4-Bromophenyl phenyl ether	µg/kg	29 UJ	70 U	16 U
4-Chloro-3-methylphenol	µg/kg	92 UJ	220 U	51 U
4-Chloroaniline	µg/kg	61 UJ	150 U	34 U
4-Chlorophenyl phenyl ether	µg/kg	29 UJ	70 U	16 U
4-Nitroaniline	µg/kg	120 UJ	300 U	68 U
4-Nitrophenol	µg/kg	190 UJ	470 U	110 U
Acenaphthene	µg/kg	38 J	14 U	3.3 U
Acenaphthylene	µg/kg	8.2 UJ	320	42

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-34**	**SS-37**	**SS-38**
	Sample Name:	**SS-38443-102618-JC-034**	**SS-38443-112018-JC-037**	**SS-38443-112018-JC-038**
	Sample Date:	**10/26/2018**	**11/20/2018**	**11/20/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Semivolatile Organic Compounds				
Acetophenone	µg/kg	62 J	55 U	13 U
Anthracene	µg/kg	63 J	540	25
Atrazine	µg/kg	73 UJ	180 U	41 U
Benzaldehyde	µg/kg	92 J	110 U	26 U
Benzo(a)anthracene	µg/kg	260 J	3400	210
Benzo(a)pyrene	µg/kg	220 J	3100	190
Benzo(b)fluoranthene	µg/kg	330 J	3900	280
Benzo(g,h,i)perylene	µg/kg	220 J	2400	160
Benzo(k)fluoranthene	µg/kg	110 J	1500	120
Biphenyl (1,1-Biphenyl)	µg/kg	74 J	85 U	19 U
bis(2-Chloroethoxy)methane	µg/kg	24 UJ	60 U	14 U
bis(2-Chloroethyl)ether	µg/kg	24 UJ	60 U	14 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	240 J	320 J	78 J
Butyl benzylphthalate (BBP)	µg/kg	45 UJ	110 U	25 U
Caprolactam	µg/kg	150 UJ	370 U	85 U
Carbazole	µg/kg	52 J	130 J	22 U
Chrysene	µg/kg	290 J	3200	210
Di-n-butylphthalate (DBP)	µg/kg	45 UJ	110 U	25 U
Di-n-octyl phthalate (DnOP)	µg/kg	57 UJ	140 U	32 U
Dibenz(a,h)anthracene	µg/kg	58 J	570	30
Dibenzofuran	µg/kg	170 J	65 U	15 U
Diethyl phthalate	µg/kg	63 UJ	150 U	35 U
Dimethyl phthalate	µg/kg	29 UJ	70 U	16 U
Fluoranthene	µg/kg	500 J	4800	270
Fluorene	µg/kg	37 J	62 J	3.1 U
Hexachlorobenzene	µg/kg	5.8 UJ	14 U	3.2 U
Hexachlorobutadiene	µg/kg	24 UJ	60 U	14 U
Hexachlorocyclopentadiene	µg/kg	130 UJ	310 U	70 U
Hexachloroethane	µg/kg	18 UJ	45 U	10 U
Indeno(1,2,3-cd)pyrene	µg/kg	160 J	1900	130
Isophorone	µg/kg	24 UJ	60 U	14 U
N-Nitrosodi-n-propylamine	µg/kg	22 UJ	55 U	13 U
N-Nitrosodiphenylamine	µg/kg	24 UJ	60 U	14 U
Naphthalene	µg/kg	420 J	63 J	12 J
Nitrobenzene	µg/kg	26 UJ	65 U	15 U
Pentachlorophenol	µg/kg	120 UJ	290 U	66 U
Phenanthrene	µg/kg	590 J	1500	67
Phenol	µg/kg	46 J	40 U	9.1 U
Pyrene	µg/kg	440 J	5200	270

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-34**	**SS-37**	**SS-38**
	Sample Name:	**SS-38443-102618-JC-034**	**SS-38443-112018-JC-037**	**SS-38443-112018-JC-038**
	Sample Date:	**10/26/2018**	**11/20/2018**	**11/20/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Herbicides				
2,4,5-T	µg/kg	--	--	--
2,4,5-TP (Silvex)	µg/kg	--	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/kg	--	--	--
PCBs				
Aroclor-1016 (PCB-1016)	µg/kg	45 UJ	28 U	25 U
Aroclor-1221 (PCB-1221)	µg/kg	49 UJ	31 U	27 U
Aroclor-1232 (PCB-1232)	µg/kg	47 UJ	29 U	26 U
Aroclor-1242 (PCB-1242)	µg/kg	39 UJ	24 U	22 U
Aroclor-1248 (PCB-1248)	µg/kg	49 UJ	31 U	27 U
Aroclor-1254 (PCB-1254)	µg/kg	240 J	29 U	26 U
Aroclor-1260 (PCB-1260)	µg/kg	45 UJ	28 U	25 U
Pesticides				
4,4'-DDD	µg/kg	3.0 UJ	1.8 U	1.6 U
4,4'-DDE	µg/kg	3.1 UJ	1.9 U	1.6 U
4,4'-DDT	µg/kg	2.3 UJ	1.4 U	1.2 U
Aldrin	µg/kg	1.6 UJ	0.96 U	0.84 U
alpha-BHC	µg/kg	1.9 UJ	1.1 U	0.99 U
alpha-Chlordane	µg/kg	3.1 UJ	8.9 J	1.6 U
beta-BHC	µg/kg	3.6 UJ	2.2 U	1.9 U
delta-BHC	µg/kg	70 UJ	2.1 U	1.8 U
Dieldrin	µg/kg	2.3 UJ	1.4 U	1.2 U
Endosulfan I	µg/kg	2.5 UJ	1.5 U	1.3 U
Endosulfan II	µg/kg	4.0 J	1.8 U	1.6 U
Endosulfan sulfate	µg/kg	53 UJ	1.6 U	1.4 U
Endrin	µg/kg	3.9 UJ	2.4 U	2.1 U
Endrin aldehyde	µg/kg	54 UJ	1.6 U	1.4 U
Endrin ketone	µg/kg	1.8 UJ	1.1 U	0.97 U
gamma-BHC (lindane)	µg/kg	3.7 UJ	2.2 U	2.0 U
gamma-Chlordane	µg/kg	2.5 UJ	9.2 J	1.3 U
Heptachlor	µg/kg	3.2 UJ	2.0 U	1.7 U
Heptachlor epoxide	µg/kg	3.0 UJ	3.8 J	1.6 U
Methoxychlor	µg/kg	13 UJ	8.2 U	7.2 U
Toxaphene	µg/kg	51 UJ	31 U	27 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-34**	**SS-37**	**SS-38**
	Sample Name:	**SS-38443-102618-JC-034**	**SS-38443-112018-JC-037**	**SS-38443-112018-JC-038**
	Sample Date:	**10/26/2018**	**11/20/2018**	**11/20/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs)				
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	90 J	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	27 UJ	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	11 J	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	9.6 UJ	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	1.6 UJ	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	1.8 UJ	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	0.93 UJ	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	1.8 UJ	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	0.83 UJ	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	1.6 UJ	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	1.2 UJ	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	0.92 UJ	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	0.36 UJ	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	1.0 UJ	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	1.3 J	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	1.0 UJ	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	0.95 UJ	--	--
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	22 J	--	--
Total heptachlorodibenzofuran (HpCDF)	pg/g	9.6 J	--	--
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	1.8 UJ	--	--
Total hexachlorodibenzofuran (HxCDF)	pg/g	4.2 J	--	--
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	0.92 UJ	--	--
Total pentachlorodibenzofuran (PeCDF)	pg/g	8.0 J	--	--
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	1.0 UJ	--	--
Total tetrachlorodibenzofuran (TCDF)	pg/g	5.4 J	--	--
Metals				
Aluminum	mg/kg	7600 J	7500	5000
Antimony	mg/kg	1.4 J	0.21 J	0.14 J
Arsenic	mg/kg	28 J	7.8	5.6
Barium	mg/kg	220 J	82	42
Beryllium	mg/kg	2.2 J	0.43	0.26
Cadmium	mg/kg	0.68 J	2.2	0.23
Calcium	mg/kg	14000 J	45000	150000
Chromium	mg/kg	52 J	13	8.1
Chromium III (trivalent)	mg/kg	52 J	13	8.1
Chromium VI (hexavalent)	mg/kg	2.5 UJ	1.5 U	0.27 U
Cobalt	mg/kg	9.7 J	6.8	4.5

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-34**	**SS-37**	**SS-38**
	Sample Name:	**SS-38443-102618-JC-034**	**SS-38443-112018-JC-037**	**SS-38443-112018-JC-038**
	Sample Date:	**10/26/2018**	**11/20/2018**	**11/20/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Metals				
Copper	mg/kg	81 J	37	17
Iron	mg/kg	17000 J	16000	13000
Lead	mg/kg	110 J	29	21
Lead - coarse fraction	mg/kg	--	--	--
Lead - fine fraction	mg/kg	--	--	--
Lead - total (calculated by fine/coarse fraction)	mg/kg	--	--	--
Magnesium	mg/kg	6000 J	18000	47000
Manganese	mg/kg	130 J	330	450
Mercury	mg/kg	0.40 J	0.097 J	0.042 J
Nickel	mg/kg	42 J	14	12
Potassium	mg/kg	1500 J	850	710
Selenium	mg/kg	3.8 J	1.1 J	0.60 J
Silver	mg/kg	0.17 J	0.053 J	0.024 J
Sodium	mg/kg	390 J	72 J	120 J
Thallium	mg/kg	1.0 J	0.21 J	0.20
Vanadium	mg/kg	29 J	20	16
Zinc	mg/kg	160 J	68	42
General Chemistry				
Cyanide (total)	mg/kg	0.94 J	0.24 U	0.21 U
Soot carbon	mg/kg	49000 J	--	--
Total organic carbon (TOC)	mg/kg	29000 J	--	--

Notes:

R - Rejected
J - Estimated concentration
U - Not detected at the associated reporting limit
-- - Not applicable
UJ - Not detected; associated reporting limit is detected
PCBs - Polychlorinated Biphenyls

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-40**	**SS-41**	**SS-42**
	Sample Name:	**SS-38443-112018-JC-040**	**SS-38443-112018-JC-041**	**SS-38443-112718-AS-042**
	Sample Date:	**11/20/2018**	**11/20/2018**	**11/27/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/kg	0.93 U	--	0.68 U
1,1,2,2-Tetrachloroethane	µg/kg	1.6 U	--	1.2 U
1,1,2-Trichloroethane	µg/kg	1.3 U	--	0.94 U
1,1-Dichloroethane	µg/kg	0.78 U	--	0.57 U
1,1-Dichloroethene	µg/kg	1.0 U	--	0.75 U
1,2,4-Trichlorobenzene	µg/kg	0.65 U	--	0.47 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	4.1 U	--	3.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	0.87 U	--	0.64 U
1,2-Dichlorobenzene	µg/kg	1.3 U	--	0.92 U
1,2-Dichloroethane	µg/kg	0.87 U	--	0.64 U
1,2-Dichloropropane	µg/kg	0.96 U	--	0.70 U
1,3-Dichlorobenzene	µg/kg	0.92 U	--	0.67 U
1,4-Dichlorobenzene	µg/kg	1.0 U	--	0.73 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	4.0 U	--	2.9 U
2-Hexanone	µg/kg	4.6 U	--	3.4 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	4.2 U	--	3.1 U
Acetone	µg/kg	24 U	--	17 U
Benzene	µg/kg	0.79 U	--	0.58 U
Bromodichloromethane	µg/kg	0.77 U	--	0.56 U
Bromoform	µg/kg	2.7 U	--	2.0 U
Bromomethane (Methyl bromide)	µg/kg	1.1 U	--	0.82 U
Carbon disulfide	µg/kg	1.3 U	--	0.96 U
Carbon tetrachloride	µg/kg	3.7 U	--	2.7 U
Chlorobenzene	µg/kg	1.0 U	--	0.76 U
Chloroethane	µg/kg	1.4 U	--	1.0 U
Chloroform (Trichloromethane)	µg/kg	0.89 U	--	0.65 U
Chloromethane (Methyl chloride)	µg/kg	1.2 U	--	0.86 U
cis-1,2-Dichloroethene	µg/kg	0.74 U	--	0.54 U
cis-1,3-Dichloropropene	µg/kg	1.6 U	--	1.2 U
Cyclohexane	µg/kg	1.6 U	--	1.1 U
Dibromochloromethane	µg/kg	3.2 U	--	2.3 U
Dichlorodifluoromethane (CFC-12)	µg/kg	1.1 U	--	0.78 U
Ethylbenzene	µg/kg	1.2 U	--	0.87 U
Isopropyl benzene	µg/kg	0.94 U	--	0.69 U
Methyl acetate	µg/kg	3.9 U	--	2.8 U
Methyl cyclohexane	µg/kg	1.4 U	--	1.0 U
Methyl tert butyl ether (MTBE)	µg/kg	0.93 U	--	0.68 U
Methylene chloride	µg/kg	14 U	--	9.9 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-40**	**SS-41**	**SS-42**
	Sample Name:	**SS-38443-112018-JC-040**	**SS-38443-112018-JC-041**	**SS-38443-112718-AS-042**
	Sample Date:	**11/20/2018**	**11/20/2018**	**11/27/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
Styrene	µg/kg	1.3 U	--	0.96 U
Tetrachloroethene	µg/kg	0.83 U	--	0.60 U
Toluene	µg/kg	0.88 U	--	0.64 U
trans-1,2-Dichloroethene	µg/kg	0.53 U	--	0.38 U
trans-1,3-Dichloropropene	µg/kg	1.2 U	--	0.85 U
Trichloroethene	µg/kg	0.72 U	--	0.52 U
Trichlorofluoromethane (CFC-11)	µg/kg	1.2 U	--	0.89 U
Trifluorotrichloroethane (CFC-113)	µg/kg	1.5 U	--	1.1 U
Vinyl chloride	µg/kg	0.95 U	--	0.69 U
Xylenes (total)	µg/kg	1.8 U	--	1.3 U
Semivolatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	46 U	--	12 U
2,4,5-Trichlorophenol	µg/kg	320 U	--	80 U
2,4,6-Trichlorophenol	µg/kg	290 U	--	74 U
2,4-Dichlorophenol	µg/kg	200 U	--	51 U
2,4-Dimethylphenol	µg/kg	180 U	--	46 U
2,4-Dinitrophenol	µg/kg	650 U	--	160 U
2,4-Dinitrotoluene	µg/kg	280 U	--	72 U
2,6-Dinitrotoluene	µg/kg	260 U	--	65 U
2-Chloronaphthalene	µg/kg	64 U	--	16 U
2-Chlorophenol	µg/kg	46 U	--	12 U
2-Methylnaphthalene	µg/kg	67 J	--	36
2-Methylphenol	µg/kg	140 U	--	36 U
2-Nitroaniline	µg/kg	180 U	--	46 U
2-Nitrophenol	µg/kg	59 U	--	15 U
3&4-Methylphenol	µg/kg	130 U	--	34 U
3,3'-Dichlorobenzidine	µg/kg	200 U	--	50 U
3-Nitroaniline	µg/kg	220 U	--	57 U
4,6-Dinitro-2-methylphenol	µg/kg	370 U	--	93 U
4-Bromophenyl phenyl ether	µg/kg	64 U	--	16 U
4-Chloro-3-methylphenol	µg/kg	210 U	--	52 U
4-Chloroaniline	µg/kg	140 U	--	35 U
4-Chlorophenyl phenyl ether	µg/kg	64 U	--	16 U
4-Nitroaniline	µg/kg	270 U	--	69 U
4-Nitrophenol	µg/kg	430 U	--	110 U
Acenaphthene	µg/kg	150	--	12 J
Acenaphthylene	µg/kg	67 J	--	12 J

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-40**	**SS-41**	**SS-42**
	Sample Name:	**SS-38443-112018-JC-040**	**SS-38443-112018-JC-041**	**SS-38443-112718-AS-042**
	Sample Date:	**11/20/2018**	**11/20/2018**	**11/27/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Semivolatile Organic Compounds				
Acetophenone	µg/kg	50 U	--	13 U
Anthracene	µg/kg	380	--	40
Atrazine	µg/kg	160 U	--	42 U
Benzaldehyde	µg/kg	110 U	--	27 U
Benzo(a)anthracene	µg/kg	2500	--	210
Benzo(a)pyrene	µg/kg	2400	--	240
Benzo(b)fluoranthene	µg/kg	3400	--	400
Benzo(g,h,i)perylene	µg/kg	2100	--	190
Benzo(k)fluoranthene	µg/kg	1400	--	140
Biphenyl (1,1-Biphenyl)	µg/kg	78 U	--	20 U
bis(2-Chloroethoxy)methane	µg/kg	55 U	--	14 U
bis(2-Chloroethyl)ether	µg/kg	55 U	--	14 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	330	--	59 U
Butyl benzylphthalate (BBP)	µg/kg	100 U	--	25 U
Caprolactam	µg/kg	340 U	--	87 U
Carbazole	µg/kg	330	--	26 J
Chrysene	µg/kg	2800	--	260
Di-n-butylphthalate (DBP)	µg/kg	100 U	--	27 U
Di-n-octyl phthalate (DnOP)	µg/kg	130 U	--	32 U
Dibenz(a,h)anthracene	µg/kg	530	--	8.0 U
Dibenzofuran	µg/kg	67 J	--	18 J
Diethyl phthalate	µg/kg	140 U	--	36 U
Dimethyl phthalate	µg/kg	64 U	--	16 U
Fluoranthene	µg/kg	4700	--	490
Fluorene	µg/kg	120	--	13 J
Hexachlorobenzene	µg/kg	13 U	--	3.3 U
Hexachlorobutadiene	µg/kg	55 U	--	14 U
Hexachlorocyclopentadiene	µg/kg	280 U	--	72 U
Hexachloroethane	µg/kg	41 U	--	10 U
Indeno(1,2,3-cd)pyrene	µg/kg	1700	--	170
Isophorone	µg/kg	55 U	--	14 U
N-Nitrosodi-n-propylamine	µg/kg	50 U	--	13 U
N-Nitrosodiphenylamine	µg/kg	55 U	--	14 U
Naphthalene	µg/kg	49 J	--	24
Nitrobenzene	µg/kg	59 U	--	15 U
Pentachlorophenol	µg/kg	260 U	--	67 U
Phenanthrene	µg/kg	2000	--	220
Phenol	µg/kg	37 U	--	9.3 U
Pyrene	µg/kg	4800	--	420

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-40**	**SS-41**	**SS-42**
	Sample Name:	**SS-38443-112018-JC-040**	**SS-38443-112018-JC-041**	**SS-38443-112718-AS-042**
	Sample Date:	**11/20/2018**	**11/20/2018**	**11/27/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Herbicides				
2,4,5-T	µg/kg	--	16 U	--
2,4,5-TP (Silvex)	µg/kg	--	17 U	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/kg	--	59 U	--
PCBs				
Aroclor-1016 (PCB-1016)	µg/kg	24 U	--	25 U
Aroclor-1221 (PCB-1221)	µg/kg	26 U	--	28 U
Aroclor-1232 (PCB-1232)	µg/kg	25 U	--	26 U
Aroclor-1242 (PCB-1242)	µg/kg	21 U	--	22 U
Aroclor-1248 (PCB-1248)	µg/kg	26 U	--	28 U
Aroclor-1254 (PCB-1254)	µg/kg	25 U	--	180
Aroclor-1260 (PCB-1260)	µg/kg	24 U	--	25 U
Pesticides				
4,4'-DDD	µg/kg	1.7 U	--	1.8 U
4,4'-DDE	µg/kg	1.8 U	--	1.8 U
4,4'-DDT	µg/kg	1.3 U	--	1.3 U
Aldrin	µg/kg	0.90 U	--	0.91 U
alpha-BHC	µg/kg	1.1 U	--	1.1 U
alpha-Chlordane	µg/kg	20	--	1.8 U
beta-BHC	µg/kg	2.0 U	--	2.0 U
delta-BHC	µg/kg	2.0 U	--	2.0 U
Dieldrin	µg/kg	1.3 U	--	1.3 U
Endosulfan I	µg/kg	2.1 NJ	--	1.4 U
Endosulfan II	µg/kg	1.7 U	--	1.8 U
Endosulfan sulfate	µg/kg	1.5 U	--	1.5 U
Endrin	µg/kg	2.2 U	--	2.2 U
Endrin aldehyde	µg/kg	2.1 J	--	1.5 U
Endrin ketone	µg/kg	1.0 U	--	1.1 U
gamma-BHC (lindane)	µg/kg	2.1 U	--	2.1 U
gamma-Chlordane	µg/kg	13	--	1.5 U
Heptachlor	µg/kg	1.8 U	--	1.9 U
Heptachlor epoxide	µg/kg	1.7 U	--	1.7 U
Methoxychlor	µg/kg	7.6 U	--	7.8 U
Toxaphene	µg/kg	29 U	--	30 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-40**	**SS-41**	**SS-42**
	Sample Name:	**SS-38443-112018-JC-040**	**SS-38443-112018-JC-041**	**SS-38443-112718-AS-042**
	Sample Date:	**11/20/2018**	**11/20/2018**	**11/27/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs)				
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
Total heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
Total hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
Total pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
Total tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Metals				
Aluminum	mg/kg	4000	--	7500
Antimony	mg/kg	0.15 J	--	0.19 J
Arsenic	mg/kg	5.4	--	9.3
Barium	mg/kg	49	--	66 J
Beryllium	mg/kg	0.27	--	0.45 J
Cadmium	mg/kg	0.26	--	0.23
Calcium	mg/kg	99000	--	65000
Chromium	mg/kg	8.6	--	14
Chromium III (trivalent)	mg/kg	8.3	--	14
Chromium VI (hexavalent)	mg/kg	0.31 J	--	0.28 U
Cobalt	mg/kg	3.9	--	5.9

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-40**	**SS-41**	**SS-42**
	Sample Name:	**SS-38443-112018-JC-040**	**SS-38443-112018-JC-041**	**SS-38443-112718-AS-042**
	Sample Date:	**11/20/2018**	**11/20/2018**	**11/27/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Metals				
Copper	mg/kg	19	--	30 J
Iron	mg/kg	9200	--	15000
Lead	mg/kg	26	--	25 J
Lead - coarse fraction	mg/kg	--	--	24
Lead - fine fraction	mg/kg	--	--	48
Lead - total (calculated by fine/coarse fraction)	mg/kg	--	--	26
Magnesium	mg/kg	30000	--	30000
Manganese	mg/kg	320	--	530 J
Mercury	mg/kg	0.094 J	--	0.050 J
Nickel	mg/kg	11	--	15 J
Potassium	mg/kg	590	--	740 J
Selenium	mg/kg	0.78 J	--	0.86 J
Silver	mg/kg	0.061 J	--	0.048 J
Sodium	mg/kg	98 J	--	90 J
Thallium	mg/kg	0.14 J	--	0.20
Vanadium	mg/kg	13	--	22
Zinc	mg/kg	61	--	58 J
General Chemistry				
Cyanide (total)	mg/kg	0.23 U	--	0.21 U
Soot carbon	mg/kg	--	--	--
Total organic carbon (TOC)	mg/kg	--	--	--

Notes:

R - Rejected
J - Estimated concentration
U - Not detected at the associated reporting limit
-- - Not applicable
UJ - Not detected; associated reporting limit is detected
PCBs - Polychlorinated Biphenyls

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-43**	**SS-44**	**SS-45**
	Sample Name:	**SS-38443-112718-AS-043**	**SS-38443-112718-AS-044**	**SS-38443-112718-AS-045**
	Sample Date:	**11/27/2018**	**11/27/2018**	**11/27/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/kg	1.0 U	0.93 U	1.2 U
1,1,2,2-Tetrachloroethane	µg/kg	1.8 U	1.6 U	2.0 U
1,1,2-Trichloroethane	µg/kg	1.4 U	1.3 U	1.6 U
1,1-Dichloroethane	µg/kg	0.86 U	0.78 U	0.97 U
1,1-Dichloroethene	µg/kg	1.1 U	1.0 U	1.3 U
1,2,4-Trichlorobenzene	µg/kg	0.71 U	0.65 U	0.80 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	4.5 U	4.1 U	5.1 U
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	0.96 U	0.87 U	1.1 U
1,2-Dichlorobenzene	µg/kg	1.4 U	1.3 U	1.6 U
1,2-Dichloroethane	µg/kg	0.96 U	0.87 U	1.1 U
1,2-Dichloropropane	µg/kg	1.1 U	0.96 U	1.2 U
1,3-Dichlorobenzene	µg/kg	1.0 U	0.92 U	1.1 U
1,4-Dichlorobenzene	µg/kg	1.1 U	1.0 U	1.2 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	4.4 U	4.0 U	5.0 U
2-Hexanone	µg/kg	5.1 U	4.6 U	5.7 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	4.6 U	4.2 U	5.2 U
Acetone	µg/kg	26 U	24 U	30 U
Benzene	µg/kg	0.87 U	0.79 U	0.98 U
Bromodichloromethane	µg/kg	0.85 U	0.77 U	0.96 U
Bromoform	µg/kg	3.0 U	2.7 U	3.4 U
Bromomethane (Methyl bromide)	µg/kg	1.2 U	1.1 U	1.4 U
Carbon disulfide	µg/kg	1.5 U	1.3 U	1.6 U
Carbon tetrachloride	µg/kg	4.1 U	3.7 U	4.6 U
Chlorobenzene	µg/kg	1.1 U	1.0 U	1.3 U
Chloroethane	µg/kg	1.5 U	1.4 U	1.7 U
Chloroform (Trichloromethane)	µg/kg	0.98 U	0.89 U	1.1 U
Chloromethane (Methyl chloride)	µg/kg	1.3 U	1.2 U	1.5 U
cis-1,2-Dichloroethene	µg/kg	0.81 U	0.73 U	0.92 U
cis-1,3-Dichloropropene	µg/kg	1.8 U	1.6 U	2.0 U
Cyclohexane	µg/kg	1.7 U	1.6 U	1.9 U
Dibromochloromethane	µg/kg	3.5 U	3.1 U	3.9 U
Dichlorodifluoromethane (CFC-12)	µg/kg	1.2 U	1.1 U	1.3 U
Ethylbenzene	µg/kg	1.3 U	1.2 U	1.5 U
Isopropyl benzene	µg/kg	1.0 U	0.94 U	1.2 U
Methyl acetate	µg/kg	4.2 U	3.8 U	4.8 U
Methyl cyclohexane	µg/kg	1.5 U	1.4 U	1.7 U
Methyl tert butyl ether (MTBE)	µg/kg	1.0 U	0.93 U	1.2 U
Methylene chloride	µg/kg	15 U	14 U	17 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-43**	**SS-44**	**SS-45**
	Sample Name:	**SS-38443-112718-AS-043**	**SS-38443-112718-AS-044**	**SS-38443-112718-AS-045**
	Sample Date:	**11/27/2018**	**11/27/2018**	**11/27/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
Styrene	µg/kg	1.4 U	1.3 U	1.6 U
Tetrachloroethene	µg/kg	0.91 U	0.82 U	1.0 U
Toluene	µg/kg	0.96 U	0.87 U	1.1 U
trans-1,2-Dichloroethene	µg/kg	0.58 U	0.52 U	0.65 U
trans-1,3-Dichloropropene	µg/kg	1.3 U	1.2 U	1.5 U
Trichloroethene	µg/kg	0.79 U	0.71 U	0.89 U
Trichlorofluoromethane (CFC-11)	µg/kg	1.3 U	1.2 U	1.5 U
Trifluorotrichloroethane (CFC-113)	µg/kg	1.6 U	1.4 U	1.8 U
Vinyl chloride	µg/kg	1.0 U	0.94 U	1.2 U
Xylenes (total)	µg/kg	2.0 U	1.8 U	2.2 U
Semivolatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	12 U	44 U	23 U
2,4,5-Trichlorophenol	µg/kg	81 U	300 U	160 U
2,4,6-Trichlorophenol	µg/kg	75 U	280 U	150 U
2,4-Dichlorophenol	µg/kg	52 U	190 U	100 U
2,4-Dimethylphenol	µg/kg	47 U	180 U	93 U
2,4-Dinitrophenol	µg/kg	170 U	630 U	330 U
2,4-Dinitrotoluene	µg/kg	73 U	270 U	140 U
2,6-Dinitrotoluene	µg/kg	66 U	250 U	130 U
2-Chloronaphthalene	µg/kg	16 U	62 U	33 U
2-Chlorophenol	µg/kg	12 U	44 U	23 U
2-Methylnaphthalene	µg/kg	12 J	85	29 J
2-Methylphenol	µg/kg	36 U	140 U	72 U
2-Nitroaniline	µg/kg	47 U	180 U	93 U
2-Nitrophenol	µg/kg	15 U	57 U	30 U
3&4-Methylphenol	µg/kg	34 U	130 U	67 U
3,3'-Dichlorobenzidine	µg/kg	51 U	190 U	100 U
3-Nitroaniline	µg/kg	58 U	220 U	110 U
4,6-Dinitro-2-methylphenol	µg/kg	94 U	350 U	190 U
4-Bromophenyl phenyl ether	µg/kg	16 U	62 U	33 U
4-Chloro-3-methylphenol	µg/kg	53 U	200 U	100 U
4-Chloroaniline	µg/kg	35 U	130 U	70 U
4-Chlorophenyl phenyl ether	µg/kg	16 U	62 U	33 U
4-Nitroaniline	µg/kg	71 U	260 U	140 U
4-Nitrophenol	µg/kg	110 U	410 U	220 U
Acenaphthene	µg/kg	43	13 U	130
Acenaphthylene	µg/kg	200	120	44

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-43**	**SS-44**	**SS-45**
	Sample Name:	**SS-38443-112718-AS-043**	**SS-38443-112718-AS-044**	**SS-38443-112718-AS-045**
	Sample Date:	**11/27/2018**	**11/27/2018**	**11/27/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Semivolatile Organic Compounds				
Acetophenone	µg/kg	13 U	48 U	26 U
Anthracene	µg/kg	140	99	170 J
Atrazine	µg/kg	42 U	160 U	84 U
Benzaldehyde	µg/kg	27 U	100 U	54 U
Benzo(a)anthracene	µg/kg	630	320	600 J
Benzo(a)pyrene	µg/kg	890	450	580 J
Benzo(b)fluoranthene	µg/kg	1200	630	920 J
Benzo(g,h,i)perylene	µg/kg	650	830	390
Benzo(k)fluoranthene	µg/kg	460	280	420 J
Biphenyl (1,1-Biphenyl)	µg/kg	20 U	75 U	40 U
bis(2-Chloroethoxy)methane	µg/kg	14 U	53 U	28 U
bis(2-Chloroethyl)ether	µg/kg	14 U	53 U	28 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	60 U	220 U	120 U
Butyl benzylphthalate (BBP)	µg/kg	26 U	97 U	51 U
Caprolactam	µg/kg	88 U	330 U	170 U
Carbazole	µg/kg	84	84 U	130
Chrysene	µg/kg	640	360	670 J
Di-n-butylphthalate (DBP)	µg/kg	26 U	97 U	64 U
Di-n-octyl phthalate (DnOP)	µg/kg	33 U	120 U	65 U
Dibenz(a,h)anthracene	µg/kg	160	30 U	98
Dibenzofuran	µg/kg	23 J	57 U	62 J
Diethyl phthalate	µg/kg	36 U	140 U	72 U
Dimethyl phthalate	µg/kg	16 U	62 U	33 U
Fluoranthene	µg/kg	1300	570	1700 J
Fluorene	µg/kg	51	12 U	88
Hexachlorobenzene	µg/kg	3.4 U	13 U	6.6 U
Hexachlorobutadiene	µg/kg	14 U	53 U	28 U
Hexachlorocyclopentadiene	µg/kg	73 U	270 U	R
Hexachloroethane	µg/kg	11 U	40 U	21 U
Indeno(1,2,3-cd)pyrene	µg/kg	560	220	330 J
Isophorone	µg/kg	14 U	53 U	28 U
N-Nitrosodi-n-propylamine	µg/kg	13 U	48 U	26 U
N-Nitrosodiphenylamine	µg/kg	14 U	53 U	28 U
Naphthalene	µg/kg	21	60 J	33 J
Nitrobenzene	µg/kg	15 U	57 U	30 U
Pentachlorophenol	µg/kg	68 U	260 U	130 U
Phenanthrene	µg/kg	470	270	1100 J
Phenol	µg/kg	9.4 U	35 U	19 U
Pyrene	µg/kg	1300	620	1300

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-43**	**SS-44**	**SS-45**
	Sample Name:	**SS-38443-112718-AS-043**	**SS-38443-112718-AS-044**	**SS-38443-112718-AS-045**
	Sample Date:	**11/27/2018**	**11/27/2018**	**11/27/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Herbicides				
2,4,5-T	µg/kg	--	--	--
2,4,5-TP (Silvex)	µg/kg	--	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/kg	--	--	--
PCBs				
Aroclor-1016 (PCB-1016)	µg/kg	26 U	24 U	25 U
Aroclor-1221 (PCB-1221)	µg/kg	28 U	26 U	28 U
Aroclor-1232 (PCB-1232)	µg/kg	27 U	25 U	26 U
Aroclor-1242 (PCB-1242)	µg/kg	22 U	21 U	22 U
Aroclor-1248 (PCB-1248)	µg/kg	28 U	26 U	28 U
Aroclor-1254 (PCB-1254)	µg/kg	27 U	25 U	26 U
Aroclor-1260 (PCB-1260)	µg/kg	26 U	24 U	25 U
Pesticides				
4,4'-DDD	µg/kg	1.7 U	1.6 U	8.3 U
4,4'-DDE	µg/kg	1.8 U	1.7 U	8.4 U
4,4'-DDT	µg/kg	1.3 U	1.2 NJ	6.3 U
Aldrin	µg/kg	0.90 U	0.85 U	4.3 U
alpha-BHC	µg/kg	1.1 U	1.0 U	5.1 U
alpha-Chlordane	µg/kg	3.1 J	1.6 U	32
beta-BHC	µg/kg	2.0 U	1.9 U	9.6 U
delta-BHC	µg/kg	2.0 U	1.9 U	9.4 U
Dieldrin	µg/kg	1.3 U	1.2 U	6.1 U
Endosulfan I	µg/kg	1.4 U	1.3 U	6.7 U
Endosulfan II	µg/kg	1.7 U	1.6 U	8.3 U
Endosulfan sulfate	µg/kg	1.5 U	1.4 U	7.1 U
Endrin	µg/kg	2.2 U	2.1 U	11 U
Endrin aldehyde	µg/kg	1.5 U	1.4 U	7.3 U
Endrin ketone	µg/kg	1.0 U	0.98 U	5.0 U
gamma-BHC (lindane)	µg/kg	2.1 U	2.0 U	10 U
gamma-Chlordane	µg/kg	1.9 J	1.4 U	27 J
Heptachlor	µg/kg	1.8 U	1.7 U	8.8 U
Heptachlor epoxide	µg/kg	1.7 U	1.6 U	8.0 U
Methoxychlor	µg/kg	7.7 U	7.2 U	37 U
Toxaphene	µg/kg	29 U	27 U	140 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-43**	**SS-44**	**SS-45**
	Sample Name:	**SS-38443-112718-AS-043**	**SS-38443-112718-AS-044**	**SS-38443-112718-AS-045**
	Sample Date:	**11/27/2018**	**11/27/2018**	**11/27/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs)				
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
Total heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
Total hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
Total pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
Total tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Metals				
Aluminum	mg/kg	5300	3000	4600
Antimony	mg/kg	0.16 J	0.18 J	0.20 J
Arsenic	mg/kg	6.7	3.6	8.6
Barium	mg/kg	57 J	44 J	45 J
Beryllium	mg/kg	0.32 J	0.26 J	0.39 J
Cadmium	mg/kg	0.24	1.3	0.25
Calcium	mg/kg	61000	190000	190000
Chromium	mg/kg	8.5	6.8	8.7
Chromium III (trivalent)	mg/kg	7.9	6.8	8.7
Chromium VI (hexavalent)	mg/kg	0.56 J	0.27 U	0.28 U
Cobalt	mg/kg	4.6	2.7	4.7

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-43**	**SS-44**	**SS-45**
	Sample Name:	**SS-38443-112718-AS-043**	**SS-38443-112718-AS-044**	**SS-38443-112718-AS-045**
	Sample Date:	**11/27/2018**	**11/27/2018**	**11/27/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Metals				
Copper	mg/kg	14 J	16 J	17 J
Iron	mg/kg	12000	7000	11000
Lead	mg/kg	30 J	39 J	19 J
Lead - coarse fraction	mg/kg	--	62	--
Lead - fine fraction	mg/kg	--	100	--
Lead - total (calculated by fine/coarse fraction)	mg/kg	--	70	--
Magnesium	mg/kg	23000	29000	36000
Manganese	mg/kg	300 J	320 J	390 J
Mercury	mg/kg	0.071 J	0.13	0.078 J
Nickel	mg/kg	11 J	7.7 J	16 J
Potassium	mg/kg	720 J	450 J	660 J
Selenium	mg/kg	0.62 J	0.60 J	0.81 J
Silver	mg/kg	0.035 J	0.028 J	0.025 J
Sodium	mg/kg	79 J	120 J	150 J
Thallium	mg/kg	0.15 J	0.12 J	0.19
Vanadium	mg/kg	13	12	16
Zinc	mg/kg	57 J	48 J	46 J
General Chemistry				
Cyanide (total)	mg/kg	0.24 U	0.22 U	0.24 U
Soot carbon	mg/kg	--	--	--
Total organic carbon (TOC)	mg/kg	--	--	--

Notes:

R - Rejected
J - Estimated concentration
U - Not detected at the associated reporting limit
-- - Not applicable
UJ - Not detected; associated reporting limit is detected
PCBs - Polychlorinated Biphenyls

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-46**	**SS-47**	**SS-48**
	Sample Name:	**SS-38443-103018-JC-046**	**SS-38443-110218-JC-047**	**SS-38443-102918-JC-048**
	Sample Date:	**10/30/2018**	**11/02/2018**	**10/29/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/kg	1.1 U	17 U	23 U
1,1,2,2-Tetrachloroethane	µg/kg	R	17 UJ	23 U
1,1,2-Trichloroethane	µg/kg	1.5 U	16 U	21 U
1,1-Dichloroethane	µg/kg	0.91 U	31 J	15 U
1,1-Dichloroethene	µg/kg	1.2 U	18 U	25 U
1,2,4-Trichlorobenzene	µg/kg	R	160 U	220 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	R	110 U	140 U
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	1.0 U	97 U	130 U
1,2-Dichlorobenzene	µg/kg	R	26 U	34 U
1,2-Dichloroethane	µg/kg	1.0 U	15 U	20 U
1,2-Dichloropropane	µg/kg	1.1 U	9.8 U	13 U
1,3-Dichlorobenzene	µg/kg	R	26 U	34 U
1,4-Dichlorobenzene	µg/kg	R	21 U	28 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	4.7 U	190 U	260 U
2-Hexanone	µg/kg	5.4 U	320 U	430 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	4.9 U	290 U	390 U
Acetone	µg/kg	28 U	510 J	400 U
Benzene	µg/kg	0.92 U	37 J	13 U
Bromodichloromethane	µg/kg	0.89 U	34 U	46 U
Bromoform	µg/kg	3.2 U	130 U	170 U
Bromomethane (Methyl bromide)	µg/kg	1.3 U	200 U	270 U
Carbon disulfide	µg/kg	1.5 U	130 U	180 U
Carbon tetrachloride	µg/kg	4.3 U	22 U	30 U
Chlorobenzene	µg/kg	1.2 U	2100	57 U
Chloroethane	µg/kg	1.6 U	180 U	250 U
Chloroform (Trichloromethane)	µg/kg	1.0 U	11 U	15 U
Chloromethane (Methyl chloride)	µg/kg	1.4 U	81 U	110 U
cis-1,2-Dichloroethene	µg/kg	1.4 U	320	64 J
cis-1,3-Dichloropropene	µg/kg	1.9 U	45 U	61 U
Cyclohexane	µg/kg	1.8 U	200 U	270 U
Dibromochloromethane	µg/kg	3.7 U	140 U	190 U
Dichlorodifluoromethane (CFC-12)	µg/kg	1.2 U	65 UJ	87 U
Ethylbenzene	µg/kg	1.4 U	1200	20 U
Isopropyl benzene	µg/kg	1.1 U	46 U	62 U
Methyl acetate	µg/kg	4.5 U	640 U	860 U
Methyl cyclohexane	µg/kg	1.6 U	150 J	110 U
Methyl tert butyl ether (MTBE)	µg/kg	1.1 U	45 U	61 U
Methylene chloride	µg/kg	16 U	470 U	630 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-46**	**SS-47**	**SS-48**
	Sample Name:	**SS-38443-103018-JC-046**	**SS-38443-110218-JC-047**	**SS-38443-102918-JC-048**
	Sample Date:	**10/30/2018**	**11/02/2018**	**10/29/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
Styrene	µg/kg	1.5 U	15 U	20 U
Tetrachloroethene	µg/kg	0.96 U	67 J	25 U
Toluene	µg/kg	1.0 U	390	74 U
trans-1,2-Dichloroethene	µg/kg	0.61 U	24 J	25 U
trans-1,3-Dichloropropene	µg/kg	1.4 U	130 U	170 U
Trichloroethene	µg/kg	3.4 J	35 J	6400
Trichlorofluoromethane (CFC-11)	µg/kg	1.4 U	56 U	75 U
Trifluorotrichloroethane (CFC-113)	µg/kg	1.7 U	82 U	110 U
Vinyl chloride	µg/kg	1.1 U	39 J	16 U
Xylenes (total)	µg/kg	2.1 U	890	38 U
Semivolatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	67 U	29 U	13 UJ
2,4,5-Trichlorophenol	µg/kg	470 U	200 U	87 U
2,4,6-Trichlorophenol	µg/kg	430 U	180 U	80 U
2,4-Dichlorophenol	µg/kg	300 U	130 U	55 U
2,4-Dimethylphenol	µg/kg	270 U	110 U	50 U
2,4-Dinitrophenol	µg/kg	960 U	410 U	180 U
2,4-Dinitrotoluene	µg/kg	420 U	180 U	78 U
2,6-Dinitrotoluene	µg/kg	380 U	160 U	70 U
2-Chloronaphthalene	µg/kg	94 U	40 U	18 U
2-Chlorophenol	µg/kg	67 U	29 U	13 U
2-Methylnaphthalene	µg/kg	69 J	52	220
2-Methylphenol	µg/kg	210 U	89 U	39 U
2-Nitroaniline	µg/kg	270 U	110 U	50 U
2-Nitrophenol	µg/kg	88 U	37 U	16 U
3&4-Methylphenol	µg/kg	200 U	83 U	36 U
3,3'-Dichlorobenzidine	µg/kg	290 U	120 U	54 U
3-Nitroaniline	µg/kg	330 U	140 U	62 U
4,6-Dinitro-2-methylphenol	µg/kg	540 U	230 U	100 U
4-Bromophenyl phenyl ether	µg/kg	94 U	40 U	18 U
4-Chloro-3-methylphenol	µg/kg	300 U	130 U	57 U
4-Chloroaniline	µg/kg	200 U	86 U	38 U
4-Chlorophenyl phenyl ether	µg/kg	94 U	40 U	18 U
4-Nitroaniline	µg/kg	400 U	170 U	75 U
4-Nitrophenol	µg/kg	630 U	270 U	120 U
Acenaphthene	µg/kg	19 U	42 J	23
Acenaphthylene	µg/kg	27 U	16 J	310

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-46**	**SS-47**	**SS-48**
	Sample Name:	**SS-38443-103018-JC-046**	**SS-38443-110218-JC-047**	**SS-38443-102918-JC-048**
	Sample Date:	**10/30/2018**	**11/02/2018**	**10/29/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Semivolatile Organic Compounds				
Acetophenone	µg/kg	74 U	31 U	48 J
Anthracene	µg/kg	16 U	120	210
Atrazine	µg/kg	240 U	100 U	45 U
Benzaldehyde	µg/kg	160 U	66 U	140
Benzo(a)anthracene	µg/kg	110	330	1700
Benzo(a)pyrene	µg/kg	140	260	2000
Benzo(b)fluoranthene	µg/kg	360	370	3000
Benzo(g,h,i)perylene	µg/kg	130	150	1900
Benzo(k)fluoranthene	µg/kg	47 U	170	1200
Biphenyl (1,1-Biphenyl)	µg/kg	110 U	49 U	29 J
bis(2-Chloroethoxy)methane	µg/kg	81 U	34 U	15 U
bis(2-Chloroethyl)ether	µg/kg	81 U	34 U	15 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	340 U	150 U	130
Butyl benzylphthalate (BBP)	µg/kg	150 U	63 U	28 U
Caprolactam	µg/kg	510 U	210 U	94 U
Carbazole	µg/kg	130 U	60 J	71
Chrysene	µg/kg	200	350	2000
Di-n-butylphthalate (DBP)	µg/kg	150 U	63 U	71 J
Di-n-octyl phthalate (DnOP)	µg/kg	190 U	80 U	35 U
Dibenz(a,h)anthracene	µg/kg	47 U	20 U	510
Dibenzofuran	µg/kg	88 U	49 J	75
Diethyl phthalate	µg/kg	210 U	89 U	39 U
Dimethyl phthalate	µg/kg	94 U	40 U	18 U
Fluoranthene	µg/kg	140	730	1800
Fluorene	µg/kg	18 U	63	21
Hexachlorobenzene	µg/kg	19 U	8.1 U	3.6 U
Hexachlorobutadiene	µg/kg	81 U	34 U	15 U
Hexachlorocyclopentadiene	µg/kg	420 U	180 U	78 U
Hexachloroethane	µg/kg	61 U	26 U	11 U
Indeno(1,2,3-cd)pyrene	µg/kg	120	150	1700
Isophorone	µg/kg	81 U	34 U	15 U
N-Nitrosodi-n-propylamine	µg/kg	74 U	31 U	14 UJ
N-Nitrosodiphenylamine	µg/kg	81 U	34 U	15 U
Naphthalene	µg/kg	16 U	64	190
Nitrobenzene	µg/kg	88 U	37 U	16 U
Pentachlorophenol	µg/kg	390 U	170 U	73 U
Phenanthrene	µg/kg	130	530	550
Phenol	µg/kg	87 J	23 U	50 J
Pyrene	µg/kg	130	560	2000

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-46**	**SS-47**	**SS-48**
	Sample Name:	**SS-38443-103018-JC-046**	**SS-38443-110218-JC-047**	**SS-38443-102918-JC-048**
	Sample Date:	**10/30/2018**	**11/02/2018**	**10/29/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Herbicides				
2,4,5-T	µg/kg	--	--	--
2,4,5-TP (Silvex)	µg/kg	--	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/kg	--	--	--
PCBs				
Aroclor-1016 (PCB-1016)	µg/kg	29 U	24 U	28 U
Aroclor-1221 (PCB-1221)	µg/kg	32 U	27 U	31 U
Aroclor-1232 (PCB-1232)	µg/kg	30 U	25 U	29 U
Aroclor-1242 (PCB-1242)	µg/kg	25 U	21 U	24 U
Aroclor-1248 (PCB-1248)	µg/kg	32 U	27 U	31 U
Aroclor-1254 (PCB-1254)	µg/kg	54 J	330	390
Aroclor-1260 (PCB-1260)	µg/kg	29 U	24 U	28 U
Pesticides				
4,4'-DDD	µg/kg	2.0 U	8.2 U	9.4 U
4,4'-DDE	µg/kg	2.0 U	8.4 U	46
4,4'-DDT	µg/kg	1.5 U	6.3 U	51 J
Aldrin	µg/kg	1.0 U	4.3 U	4.9 U
alpha-BHC	µg/kg	1.2 U	5.1 U	5.8 U
alpha-Chlordane	µg/kg	2.0 U	8.3 U	9.6 U
beta-BHC	µg/kg	2.3 U	9.6 U	11 U
delta-BHC	µg/kg	2.2 U	9.4 U	11 U
Dieldrin	µg/kg	1.5 U	6.1 U	7.0 U
Endosulfan I	µg/kg	1.6 U	6.7 U	7.6 U
Endosulfan II	µg/kg	2.0 U	8.2 U	9.4 U
Endosulfan sulfate	µg/kg	1.7 U	7.1 U	8.2 U
Endrin	µg/kg	2.5 U	11 U	12 U
Endrin aldehyde	µg/kg	1.7 U	7.3 U	8.3 U
Endrin ketone	µg/kg	1.2 U	4.9 U	5.7 U
gamma-BHC (lindane)	µg/kg	2.4 U	9.9 U	11 U
gamma-Chlordane	µg/kg	1.6 U	6.8 U	7.8 U
Heptachlor	µg/kg	2.1 U	8.8 U	10 U
Heptachlor epoxide	µg/kg	1.9 U	8.0 U	9.2 U
Methoxychlor	µg/kg	8.7 U	36 U	42 U
Toxaphene	µg/kg	33 U	140 U	160 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-46**	**SS-47**	**SS-48**
	Sample Name:	**SS-38443-103018-JC-046**	**SS-38443-110218-JC-047**	**SS-38443-102918-JC-048**
	Sample Date:	**10/30/2018**	**11/02/2018**	**10/29/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs)				
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
Total heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
Total hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
Total pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
Total tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Metals				
Aluminum	mg/kg	4300	5900	8200
Antimony	mg/kg	2.8 J	1.9 J	11
Arsenic	mg/kg	25	8.3	17
Barium	mg/kg	200	160	3100
Beryllium	mg/kg	0.99	0.68	2.3
Cadmium	mg/kg	3.7	0.80	11
Calcium	mg/kg	24000	91000	110000
Chromium	mg/kg	64	21	120
Chromium III (trivalent)	mg/kg	64	21	120
Chromium VI (hexavalent)	mg/kg	0.33 U	0.28 U	0.95 J
Cobalt	mg/kg	7.2	5.2	16

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-46**	**SS-47**	**SS-48**
	Sample Name:	**SS-38443-103018-JC-046**	**SS-38443-110218-JC-047**	**SS-38443-102918-JC-048**
	Sample Date:	**10/30/2018**	**11/02/2018**	**10/29/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Metals				
Copper	mg/kg	460	250	2400
Iron	mg/kg	50000	16000	71000
Lead	mg/kg	340 J	510 J	4200
Lead - coarse fraction	mg/kg	--	--	3600
Lead - fine fraction	mg/kg	--	--	3600
Lead - total (calculated by fine/coarse fraction)	mg/kg	--	--	3600
Magnesium	mg/kg	7600	33000	13000
Manganese	mg/kg	310	300 J	750
Mercury	mg/kg	0.19	0.22	0.28
Nickel	mg/kg	34	17	110
Potassium	mg/kg	360	800	810
Selenium	mg/kg	0.87 J	0.73 J	1.6
Silver	mg/kg	0.57	0.28	2.0
Sodium	mg/kg	220 J	140 J	330
Thallium	mg/kg	0.22 J	0.24	0.23
Vanadium	mg/kg	19	18	28
Zinc	mg/kg	270 J	310	3000
General Chemistry				
Cyanide (total)	mg/kg	0.78	0.23 U	2.7
Soot carbon	mg/kg	--	--	--
Total organic carbon (TOC)	mg/kg	--	--	--

Notes:

R - Rejected
J - Estimated concentration
U - Not detected at the associated reporting limit
-- - Not applicable
UJ - Not detected; associated reporting limit is detected
PCBs - Polychlorinated Biphenyls

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-49**	**SS-50**	**SS-51**
	Sample Name:	**SS-38443-102918-JC-049**	**SS-38443-102918-JC-050**	**SS-38443-102918-JC-051**
	Sample Date:	**10/29/2018**	**10/29/2018**	**10/29/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/kg	37 U	1.6 U	R
1,1,2,2-Tetrachloroethane	µg/kg	37 U	R	R
1,1,2-Trichloroethane	µg/kg	34 U	2.2 U	R
1,1-Dichloroethane	µg/kg	110 J	2.6 J	R
1,1-Dichloroethene	µg/kg	40 U	1.7 U	R
1,2,4-Trichlorobenzene	µg/kg	350 U	R	R
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	230 U	R	R
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	210 U	1.5 U	R
1,2-Dichlorobenzene	µg/kg	56 U	R	R
1,2-Dichloroethane	µg/kg	32 U	4.3 J	R
1,2-Dichloropropane	µg/kg	21 U	1.6 U	R
1,3-Dichlorobenzene	µg/kg	56 U	R	R
1,4-Dichlorobenzene	µg/kg	45 U	R	R
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	540 J	26 J	18 J
2-Hexanone	µg/kg	700 U	7.8 U	R
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	630 U	7.1 U	R
Acetone	µg/kg	650 U	40 U	R
Benzene	µg/kg	310 J	1.3 U	R
Bromodichloromethane	µg/kg	74 U	1.3 U	R
Bromoform	µg/kg	280 U	4.6 U	R
Bromomethane (Methyl bromide)	µg/kg	440 U	1.9 U	R
Carbon disulfide	µg/kg	290 U	2.2 U	R
Carbon tetrachloride	µg/kg	48 U	6.2 U	R
Chlorobenzene	µg/kg	93 U	1.7 U	R
Chloroethane	µg/kg	400 U	2.3 U	R
Chloroform (Trichloromethane)	µg/kg	24 U	1.5 U	R
Chloromethane (Methyl chloride)	µg/kg	170 U	2.0 U	R
cis-1,2-Dichloroethene	µg/kg	24 U	49	R
cis-1,3-Dichloropropene	µg/kg	98 U	2.7 U	R
Cyclohexane	µg/kg	430 U	2.6 U	R
Dibromochloromethane	µg/kg	310 U	5.3 U	R
Dichlorodifluoromethane (CFC-12)	µg/kg	140 U	1.8 U	R
Ethylbenzene	µg/kg	2600	2.0 U	R
Isopropyl benzene	µg/kg	230 J	1.6 U	R
Methyl acetate	µg/kg	1400 U	6.5 U	R
Methyl cyclohexane	µg/kg	790 J	2.3 U	R
Methyl tert butyl ether (MTBE)	µg/kg	98 U	1.6 U	R
Methylene chloride	µg/kg	1000 U	23 U	R

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-49**	**SS-50**	**SS-51**
	Sample Name:	**SS-38443-102918-JC-049**	**SS-38443-102918-JC-050**	**SS-38443-102918-JC-051**
	Sample Date:	**10/29/2018**	**10/29/2018**	**10/29/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
Styrene	µg/kg	32 U	2.2 U	R
Tetrachloroethene	µg/kg	40 U	1.4 U	1.7 J
Toluene	µg/kg	4400	1.5 U	R
trans-1,2-Dichloroethene	µg/kg	40 U	2.2 J	R
trans-1,3-Dichloropropene	µg/kg	280 U	2.0 U	R
Trichloroethene	µg/kg	50 J	5.2 J	9.6 J
Trichlorofluoromethane (CFC-11)	µg/kg	120 U	2.1 U	R
Trifluorotrichloroethane (CFC-113)	µg/kg	180 U	2.4 U	R
Vinyl chloride	µg/kg	410 J	1.6 J	R
Xylenes (total)	µg/kg	9400	3.0 U	R
Semivolatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	15 UJ	55 UJ	24 UJ
2,4,5-Trichlorophenol	µg/kg	110 U	380 U	170 U
2,4,6-Trichlorophenol	µg/kg	98 U	350 U	150 U
2,4-Dichlorophenol	µg/kg	67 U	240 U	110 U
2,4-Dimethylphenol	µg/kg	61 U	220 U	97 U
2,4-Dinitrophenol	µg/kg	220 U	790 U	340 U
2,4-Dinitrotoluene	µg/kg	95 U	340 U	150 U
2,6-Dinitrotoluene	µg/kg	86 U	310 U	140 U
2-Chloronaphthalene	µg/kg	21 U	78 U	34 U
2-Chlorophenol	µg/kg	15 U	55 U	24 U
2-Methylnaphthalene	µg/kg	720	260	180
2-Methylphenol	µg/kg	48 U	170 U	75 U
2-Nitroaniline	µg/kg	61 U	220 U	97 U
2-Nitrophenol	µg/kg	20 U	72 U	31 U
3&4-Methylphenol	µg/kg	210 J	160 U	70 U
3,3'-Dichlorobenzidine	µg/kg	66 U	240 U	100 U
3-Nitroaniline	µg/kg	75 U	270 U	120 U
4,6-Dinitro-2-methylphenol	µg/kg	120 U	440 U	190 U
4-Bromophenyl phenyl ether	µg/kg	21 U	78 U	34 U
4-Chloro-3-methylphenol	µg/kg	69 U	250 U	110 U
4-Chloroaniline	µg/kg	46 U	170 U	73 U
4-Chlorophenyl phenyl ether	µg/kg	21 U	78 U	34 U
4-Nitroaniline	µg/kg	92 U	330 U	150 U
4-Nitrophenol	µg/kg	140 U	520 U	230 U
Acenaphthene	µg/kg	22 J	16 U	72
Acenaphthylene	µg/kg	14 J	79 J	49

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-49**	**SS-50**	**SS-51**
	Sample Name:	**SS-38443-102918-JC-049**	**SS-38443-102918-JC-050**	**SS-38443-102918-JC-051**
	Sample Date:	**10/29/2018**	**10/29/2018**	**10/29/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Semivolatile Organic Compounds				
Acetophenone	µg/kg	17 U	61 U	27 U
Anthracene	µg/kg	36	66 J	250
Atrazine	µg/kg	55 U	200 U	87 U
Benzaldehyde	µg/kg	35 U	130 U	56 U
Benzo(a)anthracene	µg/kg	59	200	990
Benzo(a)pyrene	µg/kg	39	260	890
Benzo(b)fluoranthene	µg/kg	61	430	1300
Benzo(g,h,i)perylene	µg/kg	46	360	740
Benzo(k)fluoranthene	µg/kg	11 U	160	480
Biphenyl (1,1-Biphenyl)	µg/kg	97	94 U	41 U
bis(2-Chloroethoxy)methane	µg/kg	18 U	67 U	29 U
bis(2-Chloroethyl)ether	µg/kg	18 U	67 U	29 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	78 U	1900	150 J
Butyl benzylphthalate (BBP)	µg/kg	34 U	250 J	53 U
Caprolactam	µg/kg	120 U	420 U	180 U
Carbazole	µg/kg	29 U	110 U	120
Chrysene	µg/kg	94	280	1000
Di-n-butylphthalate (DBP)	µg/kg	34 U	120 U	53 U
Di-n-octyl phthalate (DnOP)	µg/kg	43 U	160 U	68 U
Dibenz(a,h)anthracene	µg/kg	11 U	91	200
Dibenzofuran	µg/kg	120	72 U	94 J
Diethyl phthalate	µg/kg	48 U	170 U	75 U
Dimethyl phthalate	µg/kg	21 U	78 U	34 U
Fluoranthene	µg/kg	110	350	2000
Fluorene	µg/kg	51	15 U	67
Hexachlorobenzene	µg/kg	4.4 U	16 U	6.9 U
Hexachlorobutadiene	µg/kg	18 U	67 U	29 U
Hexachlorocyclopentadiene	µg/kg	95 U	340 U	150 U
Hexachloroethane	µg/kg	14 U	50 U	22 U
Indeno(1,2,3-cd)pyrene	µg/kg	18 J	320	640
Isophorone	µg/kg	18 U	67 U	29 U
N-Nitrosodi-n-propylamine	µg/kg	17 UJ	61 UJ	27 UJ
N-Nitrosodiphenylamine	µg/kg	18 U	67 U	29 U
Naphthalene	µg/kg	620	150	160
Nitrobenzene	µg/kg	20 U	72 U	31 U
Pentachlorophenol	µg/kg	89 U	320 U	140 U
Phenanthrene	µg/kg	380	250	1100
Phenol	µg/kg	12 U	44 U	19 U
Pyrene	µg/kg	110	310	1600

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-49**	**SS-50**	**SS-51**
	Sample Name:	**SS-38443-102918-JC-049**	**SS-38443-102918-JC-050**	**SS-38443-102918-JC-051**
	Sample Date:	**10/29/2018**	**10/29/2018**	**10/29/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Herbicides				
2,4,5-T	µg/kg	--	--	--
2,4,5-TP (Silvex)	µg/kg	--	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/kg	--	--	--
PCBs				
Aroclor-1016 (PCB-1016)	µg/kg	34 U	490 U	27 U
Aroclor-1221 (PCB-1221)	µg/kg	37 U	530 U	29 U
Aroclor-1232 (PCB-1232)	µg/kg	35 U	510 U	28 U
Aroclor-1242 (PCB-1242)	µg/kg	29 U	420 U	23 U
Aroclor-1248 (PCB-1248)	µg/kg	37 U	530 U	29 U
Aroclor-1254 (PCB-1254)	µg/kg	35 U	510 U	99
Aroclor-1260 (PCB-1260)	µg/kg	250 J	14000	27 U
Pesticides				
4,4'-DDD	µg/kg	23 U	82 U	9.5 NJ
4,4'-DDE	µg/kg	23 U	83 U	53
4,4'-DDT	µg/kg	61 J	62 U	74
Aldrin	µg/kg	12 U	42 U	4.7 U
alpha-BHC	µg/kg	14 U	50 U	5.6 U
alpha-Chlordane	µg/kg	23 U	83 U	9.2 U
beta-BHC	µg/kg	26 U	95 U	11 U
delta-BHC	µg/kg	26 U	93 U	10 U
Dieldrin	µg/kg	17 U	61 U	6.7 U
Endosulfan I	µg/kg	18 U	66 U	7.3 U
Endosulfan II	µg/kg	23 U	82 U	9.1 U
Endosulfan sulfate	µg/kg	20 U	71 U	7.8 U
Endrin	µg/kg	29 U	100 U	12 U
Endrin aldehyde	µg/kg	20 U	72 U	8.0 U
Endrin ketone	µg/kg	14 U	49 U	5.5 U
gamma-BHC (lindane)	µg/kg	27 U	99 U	11 U
gamma-Chlordane	µg/kg	19 U	68 U	7.5 U
Heptachlor	µg/kg	24 U	87 U	9.7 U
Heptachlor epoxide	µg/kg	22 U	79 U	8.8 U
Methoxychlor	µg/kg	100 U	360 U	40 U
Toxaphene	µg/kg	380 U	1400 U	150 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-49**	**SS-50**	**SS-51**
	Sample Name:	**SS-38443-102918-JC-049**	**SS-38443-102918-JC-050**	**SS-38443-102918-JC-051**
	Sample Date:	**10/29/2018**	**10/29/2018**	**10/29/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs)				
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
Total heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
Total hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
Total pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
Total tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Metals				
Aluminum	mg/kg	6800	4000	9200
Antimony	mg/kg	1.2	10	8.5
Arsenic	mg/kg	16	9.0	20
Barium	mg/kg	260	240	2800
Beryllium	mg/kg	3.3	0.45	1.3
Cadmium	mg/kg	0.63	5.9	9.3
Calcium	mg/kg	2200	110000	49000
Chromium	mg/kg	29	32	200
Chromium III (trivalent)	mg/kg	29	32	200
Chromium VI (hexavalent)	mg/kg	0.64 J	1.3 U	1.2
Cobalt	mg/kg	12	5.1	17

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-49**	**SS-50**	**SS-51**
	Sample Name:	**SS-38443-102918-JC-049**	**SS-38443-102918-JC-050**	**SS-38443-102918-JC-051**
	Sample Date:	**10/29/2018**	**10/29/2018**	**10/29/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Metals				
Copper	mg/kg	62	1300	1600
Iron	mg/kg	60000	21000	58000
Lead	mg/kg	22	700	1600
Lead - coarse fraction	mg/kg	--	47000	--
Lead - fine fraction	mg/kg	--	28000	--
Lead - total (calculated by fine/coarse fraction)	mg/kg	--	43000	--
Magnesium	mg/kg	680	44000	9000
Manganese	mg/kg	230	400	880
Mercury	mg/kg	0.48	0.32	0.62
Nickel	mg/kg	20	54	110
Potassium	mg/kg	1300	550	1200
Selenium	mg/kg	5.6	4.4	2.0
Silver	mg/kg	0.072 J	0.63	6.5
Sodium	mg/kg	250 J	160 J	310
Thallium	mg/kg	0.49	0.11 J	0.30
Vanadium	mg/kg	46	13	34
Zinc	mg/kg	58	470	2300
General Chemistry				
Cyanide (total)	mg/kg	0.29 U	0.21 U	13
Soot carbon	mg/kg	--	--	--
Total organic carbon (TOC)	mg/kg	--	--	--

Notes:

R - Rejected
J - Estimated concentration
U - Not detected at the associated reporting limit
-- - Not applicable
UJ - Not detected; associated reporting limit is detected
PCBs - Polychlorinated Biphenyls

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-52**	**SS-53**	**SS-54**
	Sample Name:	**SS-38443-102918-JC-052**	**SS-38443-102918-JC-053**	**SS-38443-103018-JC-054**
	Sample Date:	**10/29/2018**	**10/29/2018**	**10/30/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/kg	--	18 U	18 U
1,1,2,2-Tetrachloroethane	µg/kg	--	18 U	18 U
1,1,2-Trichloroethane	µg/kg	--	17 U	17 U
1,1-Dichloroethane	µg/kg	--	12 U	11 UJ
1,1-Dichloroethene	µg/kg	--	19 U	19 UJ
1,2,4-Trichlorobenzene	µg/kg	--	170 U	170 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	--	110 U	110 U
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	--	100 U	100 U
1,2-Dichlorobenzene	µg/kg	--	27 U	27 U
1,2-Dichloroethane	µg/kg	--	16 U	15 U
1,2-Dichloropropane	µg/kg	--	10 U	10 UJ
1,3-Dichlorobenzene	µg/kg	--	27 U	27 U
1,4-Dichlorobenzene	µg/kg	--	22 U	22 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	--	200 U	200 U
2-Hexanone	µg/kg	--	340 U	330 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	--	310 U	300 U
Acetone	µg/kg	--	320 U	310 U
Benzene	µg/kg	--	10 U	10 UJ
Bromodichloromethane	µg/kg	--	36 U	36 U
Bromoform	µg/kg	--	140 U	130 U
Bromomethane (Methyl bromide)	µg/kg	--	210 U	210 U
Carbon disulfide	µg/kg	--	140 U	140 UJ
Carbon tetrachloride	µg/kg	--	23 U	23 U
Chlorobenzene	µg/kg	--	45 U	44 U
Chloroethane	µg/kg	--	190 U	190 U
Chloroform (Trichloromethane)	µg/kg	--	12 U	11 U
Chloromethane (Methyl chloride)	µg/kg	--	85 U	84 UJ
cis-1,2-Dichloroethene	µg/kg	--	180 J	11 UJ
cis-1,3-Dichloropropene	µg/kg	--	48 U	47 UJ
Cyclohexane	µg/kg	--	210 U	210 UJ
Dibromochloromethane	µg/kg	--	150 U	150 U
Dichlorodifluoromethane (CFC-12)	µg/kg	--	68 U	R
Ethylbenzene	µg/kg	--	22 U	24 U
Isopropyl benzene	µg/kg	--	49 U	48 U
Methyl acetate	µg/kg	--	680 U	670 U
Methyl cyclohexane	µg/kg	--	85 U	84 UJ
Methyl tert butyl ether (MTBE)	µg/kg	--	48 U	47 U
Methylene chloride	µg/kg	--	490 U	490 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-52**	**SS-53**	**SS-54**
	Sample Name:	**SS-38443-102918-JC-052**	**SS-38443-102918-JC-053**	**SS-38443-103018-JC-054**
	Sample Date:	**10/29/2018**	**10/29/2018**	**10/30/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
Styrene	µg/kg	--	16 U	15 U
Tetrachloroethene	µg/kg	--	19 U	41 U
Toluene	µg/kg	--	120 U	180 U
trans-1,2-Dichloroethene	µg/kg	--	20 J	19 UJ
trans-1,3-Dichloropropene	µg/kg	--	140 U	130 U
Trichloroethene	µg/kg	--	2200	890 J
Trichlorofluoromethane (CFC-11)	µg/kg	--	59 U	58 UJ
Trifluorotrichloroethane (CFC-113)	µg/kg	--	87 U	85 U
Vinyl chloride	µg/kg	--	13 U	13 UJ
Xylenes (total)	µg/kg	--	97 J	120 J
Semivolatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	--	30 UJ	12 U
2,4,5-Trichlorophenol	µg/kg	--	210 U	80 U
2,4,6-Trichlorophenol	µg/kg	--	190 U	74 U
2,4-Dichlorophenol	µg/kg	--	130 U	51 U
2,4-Dimethylphenol	µg/kg	--	120 U	46 U
2,4-Dinitrophenol	µg/kg	--	430 U	160 U
2,4-Dinitrotoluene	µg/kg	--	190 U	71 U
2,6-Dinitrotoluene	µg/kg	--	170 U	65 U
2-Chloronaphthalene	µg/kg	--	42 U	16 U
2-Chlorophenol	µg/kg	--	30 U	12 U
2-Methylnaphthalene	µg/kg	--	73	140 J
2-Methylphenol	µg/kg	--	93 U	36 U
2-Nitroaniline	µg/kg	--	120 U	46 U
2-Nitrophenol	µg/kg	--	39 U	15 U
3&4-Methylphenol	µg/kg	--	87 U	33 U
3,3'-Dichlorobenzidine	µg/kg	--	130 U	50 U
3-Nitroaniline	µg/kg	--	150 U	56 U
4,6-Dinitro-2-methylphenol	µg/kg	--	240 U	92 U
4-Bromophenyl phenyl ether	µg/kg	--	42 U	16 U
4-Chloro-3-methylphenol	µg/kg	--	130 U	52 U
4-Chloroaniline	µg/kg	--	90 U	35 U
4-Chlorophenyl phenyl ether	µg/kg	--	42 U	16 U
4-Nitroaniline	µg/kg	--	180 U	69 U
4-Nitrophenol	µg/kg	--	280 U	110 U
Acenaphthene	µg/kg	--	34 J	3.3 U
Acenaphthylene	µg/kg	--	24 J	6.1 J

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-52**	**SS-53**	**SS-54**
	Sample Name:	**SS-38443-102918-JC-052**	**SS-38443-102918-JC-053**	**SS-38443-103018-JC-054**
	Sample Date:	**10/29/2018**	**10/29/2018**	**10/30/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Semivolatile Organic Compounds				
Acetophenone	µg/kg	--	38 J	17 J
Anthracene	µg/kg	--	180	15 J
Atrazine	µg/kg	--	110 U	42 U
Benzaldehyde	µg/kg	--	69 U	27 U
Benzo(a)anthracene	µg/kg	--	850	120
Benzo(a)pyrene	µg/kg	--	940	150
Benzo(b)fluoranthene	µg/kg	--	1200	290
Benzo(g,h,i)perylene	µg/kg	--	960	150
Benzo(k)fluoranthene	µg/kg	--	530	85
Biphenyl (1,1-Biphenyl)	µg/kg	--	51 U	20 U
bis(2-Chloroethoxy)methane	µg/kg	--	36 U	14 U
bis(2-Chloroethyl)ether	µg/kg	--	36 U	14 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	--	200 J	59 U
Butyl benzylphthalate (BBP)	µg/kg	--	66 U	25 U
Caprolactam	µg/kg	--	220 U	86 U
Carbazole	µg/kg	--	76 J	22 U
Chrysene	µg/kg	--	930	160
Di-n-butylphthalate (DBP)	µg/kg	--	66 U	25 U
Di-n-octyl phthalate (DnOP)	µg/kg	--	84 U	32 U
Dibenz(a,h)anthracene	µg/kg	--	230	49 J
Dibenzofuran	µg/kg	--	70 J	31 J
Diethyl phthalate	µg/kg	--	93 U	36 U
Dimethyl phthalate	µg/kg	--	42 U	16 U
Fluoranthene	µg/kg	--	1600	150
Fluorene	µg/kg	--	35 J	3.2 U
Hexachlorobenzene	µg/kg	--	8.5 U	3.3 U
Hexachlorobutadiene	µg/kg	--	36 U	14 U
Hexachlorocyclopentadiene	µg/kg	--	190 U	71 U
Hexachloroethane	µg/kg	--	27 U	10 U
Indeno(1,2,3-cd)pyrene	µg/kg	--	720	140
Isophorone	µg/kg	--	36 U	14 U
N-Nitrosodi-n-propylamine	µg/kg	--	33 UJ	13 U
N-Nitrosodiphenylamine	µg/kg	--	36 U	14 U
Naphthalene	µg/kg	--	95	110 J
Nitrobenzene	µg/kg	--	39 U	15 U
Pentachlorophenol	µg/kg	--	170 U	67 U
Phenanthrene	µg/kg	--	840	110
Phenol	µg/kg	--	37 J	9.2 U
Pyrene	µg/kg	--	1300	130

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-52**	**SS-53**	**SS-54**
	Sample Name:	**SS-38443-102918-JC-052**	**SS-38443-102918-JC-053**	**SS-38443-103018-JC-054**
	Sample Date:	**10/29/2018**	**10/29/2018**	**10/30/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Herbicides				
2,4,5-T	µg/kg	16 U	--	--
2,4,5-TP (Silvex)	µg/kg	17 U	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/kg	61 U	--	--
PCBs				
Aroclor-1016 (PCB-1016)	µg/kg	--	26 U	25 U
Aroclor-1221 (PCB-1221)	µg/kg	--	29 U	27 U
Aroclor-1232 (PCB-1232)	µg/kg	--	27 U	26 U
Aroclor-1242 (PCB-1242)	µg/kg	--	370	21 U
Aroclor-1248 (PCB-1248)	µg/kg	--	29 U	27 U
Aroclor-1254 (PCB-1254)	µg/kg	--	620	26 U
Aroclor-1260 (PCB-1260)	µg/kg	--	26 U	54 J
Pesticides				
4,4'-DDD	µg/kg	--	8.8 U	17 U
4,4'-DDE	µg/kg	--	9.4 NJ	17 U
4,4'-DDT	µg/kg	--	6.7 U	13 U
Aldrin	µg/kg	--	4.6 U	8.6 U
alpha-BHC	µg/kg	--	5.4 U	10 U
alpha-Chlordane	µg/kg	--	8.9 U	17 U
beta-BHC	µg/kg	--	10 U	19 U
delta-BHC	µg/kg	--	10 U	19 U
Dieldrin	µg/kg	--	6.5 U	12 U
Endosulfan I	µg/kg	--	7.1 U	13 U
Endosulfan II	µg/kg	--	8.8 U	17 U
Endosulfan sulfate	µg/kg	--	7.6 U	14 U
Endrin	µg/kg	--	11 U	21 U
Endrin aldehyde	µg/kg	--	7.8 U	15 U
Endrin ketone	µg/kg	--	5.3 U	9.9 U
gamma-BHC (lindane)	µg/kg	--	11 U	20 U
gamma-Chlordane	µg/kg	--	7.3 U	14 U
Heptachlor	µg/kg	--	9.4 U	18 U
Heptachlor epoxide	µg/kg	--	8.6 U	16 U
Methoxychlor	µg/kg	--	39 U	73 U
Toxaphene	µg/kg	--	150 U	280 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-52**	**SS-53**	**SS-54**
	Sample Name:	**SS-38443-102918-JC-052**	**SS-38443-102918-JC-053**	**SS-38443-103018-JC-054**
	Sample Date:	**10/29/2018**	**10/29/2018**	**10/30/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs)				
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
Total heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
Total hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
Total pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
Total tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Metals				
Aluminum	mg/kg	--	7700	7800
Antimony	mg/kg	--	13	14 J
Arsenic	mg/kg	--	33	8.2 J
Barium	mg/kg	--	1200	90
Beryllium	mg/kg	--	0.69	0.50
Cadmium	mg/kg	--	8.5	1.2
Calcium	mg/kg	--	56000	47000
Chromium	mg/kg	--	100	26
Chromium III (trivalent)	mg/kg	--	100	25
Chromium VI (hexavalent)	mg/kg	--	0.55 J	0.84 J
Cobalt	mg/kg	--	13	6.0

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-52**	**SS-53**	**SS-54**
	Sample Name:	**SS-38443-102918-JC-052**	**SS-38443-102918-JC-053**	**SS-38443-103018-JC-054**
	Sample Date:	**10/29/2018**	**10/29/2018**	**10/30/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Metals				
Copper	mg/kg	--	1700	290 J
Iron	mg/kg	--	62000	22000
Lead	mg/kg	--	3300	710 J
Lead - coarse fraction	mg/kg	--	--	--
Lead - fine fraction	mg/kg	--	--	--
Lead - total (calculated by fine/coarse fraction)	mg/kg	--	--	--
Magnesium	mg/kg	--	13000	21000 J
Manganese	mg/kg	--	630	450
Mercury	mg/kg	--	0.45	0.070 J
Nickel	mg/kg	--	83	24 J
Potassium	mg/kg	--	740	830
Selenium	mg/kg	--	1.1	0.30 J
Silver	mg/kg	--	4.3	0.52 J
Sodium	mg/kg	--	310	990
Thallium	mg/kg	--	0.17 J	0.14 J
Vanadium	mg/kg	--	29	22
Zinc	mg/kg	--	2000	700 J
General Chemistry				
Cyanide (total)	mg/kg	--	0.56 J	0.22 U
Soot carbon	mg/kg	--	--	--
Total organic carbon (TOC)	mg/kg	--	--	--

Notes:

R - Rejected
J - Estimated concentration
U - Not detected at the associated reporting limit
-- - Not applicable
UJ - Not detected; associated reporting limit is detected
PCBs - Polychlorinated Biphenyls

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-54**	**SS-55**	**SS-55**
	Sample Name:	**SS-38443-103018-JC-117**	**SS-38443-102918-JC-055**	**SS-38443-102918-JC-115**
	Sample Date:	**10/30/2018**	**10/29/2018**	**10/29/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
		Duplicate		**Duplicate**
Parameters	**Unit**			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/kg	16 U	49 U	2.1 J
1,1,2,2-Tetrachloroethane	µg/kg	16 U	49 U	R
1,1,2-Trichloroethane	µg/kg	15 U	45 U	R
1,1-Dichloroethane	µg/kg	10 UJ	31 U	25 J
1,1-Dichloroethene	µg/kg	17 UJ	52 U	R
1,2,4-Trichlorobenzene	µg/kg	150 U	460 U	R
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	100 U	310 U	R
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	91 U	270 U	R
1,2-Dichlorobenzene	µg/kg	24 U	73 U	R
1,2-Dichloroethane	µg/kg	14 U	42 U	R
1,2-Dichloropropane	µg/kg	9.3 UJ	28 U	R
1,3-Dichlorobenzene	µg/kg	24 U	73 U	R
1,4-Dichlorobenzene	µg/kg	20 U	59 U	R
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	180 U	550 U	22 J
2-Hexanone	µg/kg	300 U	910 U	R
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	280 U	830 U	R
Acetone	µg/kg	280 U	850 U	R
Benzene	µg/kg	9.3 UJ	28 U	R
Bromodichloromethane	µg/kg	32 U	97 U	R
Bromoform	µg/kg	120 U	370 U	R
Bromomethane (Methyl bromide)	µg/kg	190 U	580 U	R
Carbon disulfide	µg/kg	130 UJ	380 U	R
Carbon tetrachloride	µg/kg	21 U	63 U	R
Chlorobenzene	µg/kg	41 U	120 U	R
Chloroethane	µg/kg	170 U	520 U	R
Chloroform (Trichloromethane)	µg/kg	10 U	31 U	R
Chloromethane (Methyl chloride)	µg/kg	76 UJ	230 U	R
cis-1,2-Dichloroethene	µg/kg	10 UJ	31 U	32 J
cis-1,3-Dichloropropene	µg/kg	43 UJ	130 U	R
Cyclohexane	µg/kg	190 UJ	570 U	R
Dibromochloromethane	µg/kg	140 U	410 U	R
Dichlorodifluoromethane (CFC-12)	µg/kg	R	180 U	R
Ethylbenzene	µg/kg	18 U	42 U	R
Isopropyl benzene	µg/kg	44 U	130 U	R
Methyl acetate	µg/kg	610 U	1800 U	R
Methyl cyclohexane	µg/kg	76 UJ	230 U	3.7 J
Methyl tert butyl ether (MTBE)	µg/kg	43 U	130 U	R
Methylene chloride	µg/kg	440 U	1300 U	R

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-54**	**SS-55**	**SS-55**
	Sample Name:	**SS-38443-103018-JC-117**	**SS-38443-102918-JC-055**	**SS-38443-102918-JC-115**
	Sample Date:	**10/30/2018**	**10/29/2018**	**10/29/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
		Duplicate		**Duplicate**
Parameters	**Unit**			
Volatile Organic Compounds				
Styrene	µg/kg	14 U	42 U	R
Tetrachloroethene	µg/kg	42 U	230 J	R
Toluene	µg/kg	108 U	220 U	3.1 J
trans-1,2-Dichloroethene	µg/kg	17 UJ	52 U	10 J
trans-1,3-Dichloropropene	µg/kg	120 U	360 U	R
Trichloroethene	µg/kg	1500 J	180 J	35 J
Trichlorofluoromethane (CFC-11)	µg/kg	53 UJ	160 U	R
Trifluorotrichloroethane (CFC-113)	µg/kg	78 U	230 U	R
Vinyl chloride	µg/kg	12 UJ	35 U	4.9 J
Xylenes (total)	µg/kg	27 U	80 U	R
Semivolatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	11 U	17 U	16 U
2,4,5-Trichlorophenol	µg/kg	76 U	R	110 UJ
2,4,6-Trichlorophenol	µg/kg	71 U	R	110 UJ
2,4-Dichlorophenol	µg/kg	49 U	R	72 UJ
2,4-Dimethylphenol	µg/kg	44 U	R	66 UJ
2,4-Dinitrophenol	µg/kg	160 U	R	230 UJ
2,4-Dinitrotoluene	µg/kg	69 U	100 U	100 U
2,6-Dinitrotoluene	µg/kg	62 U	94 U	92 U
2-Chloronaphthalene	µg/kg	15 U	23 U	23 U
2-Chlorophenol	µg/kg	11 U	R	16 UJ
2-Methylnaphthalene	µg/kg	28 J	3.3 UJ	130 J
2-Methylphenol	µg/kg	34 U	R	51 UJ
2-Nitroaniline	µg/kg	44 U	67 U	66 U
2-Nitrophenol	µg/kg	14 U	R	21 UJ
3&4-Methylphenol	µg/kg	32 U	R	48 UJ
3,3'-Dichlorobenzidine	µg/kg	48 U	72 U	71 U
3-Nitroaniline	µg/kg	54 U	82 U	81 U
4,6-Dinitro-2-methylphenol	µg/kg	88 U	R	130 UJ
4-Bromophenyl phenyl ether	µg/kg	15 U	23 U	23 U
4-Chloro-3-methylphenol	µg/kg	50 U	R	74 UJ
4-Chloroaniline	µg/kg	33 U	50 U	49 U
4-Chlorophenyl phenyl ether	µg/kg	15 U	23 U	23 U
4-Nitroaniline	µg/kg	66 U	100 U	99 U
4-Nitrophenol	µg/kg	100 U	R	150 UJ
Acenaphthene	µg/kg	3.2 U	4.8 U	4.7 U
Acenaphthylene	µg/kg	7.4 J	6.7 U	6.6 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-54**	**SS-55**	**SS-55**
	Sample Name:	**SS-38443-103018-JC-117**	**SS-38443-102918-JC-055**	**SS-38443-102918-JC-115**
	Sample Date:	**10/30/2018**	**10/29/2018**	**10/29/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
		Duplicate		**Duplicate**
Parameters	**Unit**			
Semivolatile Organic Compounds				
Acetophenone	µg/kg	12 U	18 U	19 J
Anthracene	µg/kg	25	4.0 U	19 J
Atrazine	µg/kg	40 U	60 U	59 U
Benzaldehyde	µg/kg	25 U	38 U	38 U
Benzo(a)anthracene	µg/kg	230	5.7 UJ	75 J
Benzo(a)pyrene	µg/kg	290	16 UJ	63 J
Benzo(b)fluoranthene	µg/kg	610	11 UJ	87 J
Benzo(g,h,i)perylene	µg/kg	290	12 UJ	41 J
Benzo(k)fluoranthene	µg/kg	180	12 U	28
Biphenyl (1,1-Biphenyl)	µg/kg	19 J	28 U	28 U
bis(2-Chloroethoxy)methane	µg/kg	13 U	20 U	20 U
bis(2-Chloroethyl)ether	µg/kg	13 U	20 U	20 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	78	85 U	110 J
Butyl benzylphthalate (BBP)	µg/kg	24 U	37 U	36 U
Caprolactam	µg/kg	83 U	130 U	120 U
Carbazole	µg/kg	21 J	32 U	31 U
Chrysene	µg/kg	310	2.5 UJ	86 J
Di-n-butylphthalate (DBP)	µg/kg	24 U	37 U	36 U
Di-n-octyl phthalate (DnOP)	µg/kg	31 U	47 U	46 U
Dibenz(a,h)anthracene	µg/kg	97 J	12 U	15 J
Dibenzofuran	µg/kg	18 J	22 U	29 J
Diethyl phthalate	µg/kg	34 U	52 U	51 U
Dimethyl phthalate	µg/kg	15 U	23 U	23 U
Fluoranthene	µg/kg	320	7.4 UJ	140 J
Fluorene	µg/kg	6.1 J	4.6 U	16 J
Hexachlorobenzene	µg/kg	3.2 U	4.8 U	4.7 U
Hexachlorobutadiene	µg/kg	13 U	20 U	20 U
Hexachlorocyclopentadiene	µg/kg	69 U	100 U	100 U
Hexachloroethane	µg/kg	9.9 U	15 U	15 U
Indeno(1,2,3-cd)pyrene	µg/kg	270	12 UJ	42 J
Isophorone	µg/kg	13 U	20 U	20 U
N-Nitrosodi-n-propylamine	µg/kg	12 U	18 U	18 U
N-Nitrosodiphenylamine	µg/kg	13 U	20 U	20 U
Naphthalene	µg/kg	31 J	4.0 UJ	96 J
Nitrobenzene	µg/kg	14 U	22 U	21 U
Pentachlorophenol	µg/kg	64 U	R	96 UJ
Phenanthrene	µg/kg	170	3.7 UJ	140 J
Phenol	µg/kg	8.8 U	R	13 UJ
Pyrene	µg/kg	260	3.6 UJ	110 J

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-54**	**SS-55**	**SS-55**
	Sample Name:	**SS-38443-103018-JC-117**	**SS-38443-102918-JC-055**	**SS-38443-102918-JC-115**
	Sample Date:	**10/30/2018**	**10/29/2018**	**10/29/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
		Duplicate		**Duplicate**
Parameters	**Unit**			
Herbicides				
2,4,5-T	µg/kg	--	--	--
2,4,5-TP (Silvex)	µg/kg	--	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/kg	--	--	--
PCBs				
Aroclor-1016 (PCB-1016)	µg/kg	24 U	37 U	35 U
Aroclor-1221 (PCB-1221)	µg/kg	26 U	40 U	38 U
Aroclor-1232 (PCB-1232)	µg/kg	25 U	38 U	36 U
Aroclor-1242 (PCB-1242)	µg/kg	21 U	32 U	30 U
Aroclor-1248 (PCB-1248)	µg/kg	26 U	40 U	38 U
Aroclor-1254 (PCB-1254)	µg/kg	25 U	75 J	49 J
Aroclor-1260 (PCB-1260)	µg/kg	110	37 U	35 U
Pesticides				
4,4'-DDD	µg/kg	1.6 U	43 J	34 NJ
4,4'-DDE	µg/kg	1.6 U	25 U	12 U
4,4'-DDT	µg/kg	3.5 NJ	19 U	34 J
Aldrin	µg/kg	0.84 U	13 U	6.1 U
alpha-BHC	µg/kg	0.99 U	15 U	7.2 U
alpha-Chlordane	µg/kg	1.6 U	25 U	12 U
beta-BHC	µg/kg	1.9 U	29 U	14 U
delta-BHC	µg/kg	1.8 U	28 U	13 U
Dieldrin	µg/kg	1.2 U	18 U	8.7 U
Endosulfan I	µg/kg	1.3 U	20 U	9.5 U
Endosulfan II	µg/kg	1.6 U	25 U	12 U
Endosulfan sulfate	µg/kg	1.4 U	21 U	10 U
Endrin	µg/kg	2.1 U	32 U	15 U
Endrin aldehyde	µg/kg	1.4 U	22 U	10 U
Endrin ketone	µg/kg	0.97 U	15 U	17 J
gamma-BHC (lindane)	µg/kg	1.9 U	30 U	14 U
gamma-Chlordane	µg/kg	1.3 U	21 U	9.8 U
Heptachlor	µg/kg	1.7 U	26 U	13 U
Heptachlor epoxide	µg/kg	1.6 U	24 U	11 U
Methoxychlor	µg/kg	7.1 U	110 UJ	52 UJ
Toxaphene	µg/kg	27 U	420 U	200 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-54**	**SS-55**	**SS-55**
	Sample Name:	**SS-38443-103018-JC-117**	**SS-38443-102918-JC-055**	**SS-38443-102918-JC-115**
	Sample Date:	**10/30/2018**	**10/29/2018**	**10/29/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
		Duplicate		**Duplicate**
Parameters	**Unit**			
Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs)				
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
Total heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
Total hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
Total pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
Total tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Metals				
Aluminum	mg/kg	6200	5400	5200
Antimony	mg/kg	1400 J	1.0	1.3
Arsenic	mg/kg	59 J	20	17
Barium	mg/kg	100	310	170
Beryllium	mg/kg	0.48	6.0	5.2
Cadmium	mg/kg	2.4	0.10 J	0.32
Calcium	mg/kg	16000	3900	11000
Chromium	mg/kg	30	16	20
Chromium III (trivalent)	mg/kg	30	16	20
Chromium VI (hexavalent)	mg/kg	0.27 U	0.40 U	0.40 U
Cobalt	mg/kg	5.7	14	12

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-54**	**SS-55**	**SS-55**
	Sample Name:	**SS-38443-103018-JC-117**	**SS-38443-102918-JC-055**	**SS-38443-102918-JC-115**
	Sample Date:	**10/30/2018**	**10/29/2018**	**10/29/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
		Duplicate		**Duplicate**
Parameters	**Unit**			
Metals				
Copper	mg/kg	1600 J	49	72
Iron	mg/kg	28000	7500	17000
Lead	mg/kg	26000 J	28	55
Lead - coarse fraction	mg/kg	--	--	--
Lead - fine fraction	mg/kg	--	--	--
Lead - total (calculated by fine/coarse fraction)	mg/kg	--	--	--
Magnesium	mg/kg	6300 J	360	3700
Manganese	mg/kg	490	19	140
Mercury	mg/kg	0.12	0.12 J	0.12 J
Nickel	mg/kg	210 J	24	24
Potassium	mg/kg	580	320	350
Selenium	mg/kg	0.37 J	0.94 J	1.0 J
Silver	mg/kg	6.8 J	0.051 J	0.097 J
Sodium	mg/kg	840 J	140 J	140 J
Thallium	mg/kg	0.16 J	1.1	0.59
Vanadium	mg/kg	17	45	34
Zinc	mg/kg	1600 J	14	66
General Chemistry				
Cyanide (total)	mg/kg	0.23 U	0.41 J	0.33 U
Soot carbon	mg/kg	--	--	--
Total organic carbon (TOC)	mg/kg	--	--	--

Notes:

R - Rejected
J - Estimated concentration
U - Not detected at the associated reporting limit
-- - Not applicable
UJ - Not detected; associated reporting limit is detected
PCBs - Polychlorinated Biphenyls

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-56**	**SS-57**	**SS-59**
	Sample Name:	**SS-38443-103018-JC-056**	**SS-38443-103018-JC-057**	**SS-38443-103018-JC-059**
	Sample Date:	**10/30/2018**	**10/30/2018**	**10/30/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/kg	20 U	33 UJ	R
1,1,2,2-Tetrachloroethane	µg/kg	20 U	33 UJ	R
1,1,2-Trichloroethane	µg/kg	18 U	31 UJ	R
1,1-Dichloroethane	µg/kg	13 UJ	21 UJ	R
1,1-Dichloroethene	µg/kg	21 UJ	35 UJ	R
1,2,4-Trichlorobenzene	µg/kg	190 U	310 UJ	R
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	120 U	210 UJ	R
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	110 U	190 UJ	R
1,2-Dichlorobenzene	µg/kg	29 U	49 UJ	R
1,2-Dichloroethane	µg/kg	17 U	28 UJ	R
1,2-Dichloropropane	µg/kg	11 UJ	19 UJ	R
1,3-Dichlorobenzene	µg/kg	29 U	49 UJ	R
1,4-Dichlorobenzene	µg/kg	24 U	40 UJ	R
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	220 U	370 UJ	510 J
2-Hexanone	µg/kg	370 U	620 UJ	R
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	330 U	560 UJ	R
Acetone	µg/kg	340 U	570 UJ	1200 J
Benzene	µg/kg	11 UJ	19 UJ	190 J
Bromodichloromethane	µg/kg	39 U	66 UJ	R
Bromoform	µg/kg	150 U	250 UJ	R
Bromomethane (Methyl bromide)	µg/kg	230 U	390 UJ	R
Carbon disulfide	µg/kg	150 UJ	250 UJ	R
Carbon tetrachloride	µg/kg	25 U	42 UJ	R
Chlorobenzene	µg/kg	49 U	82 UJ	920 J
Chloroethane	µg/kg	210 U	350 UJ	R
Chloroform (Trichloromethane)	µg/kg	13 U	21 UJ	R
Chloromethane (Methyl chloride)	µg/kg	92 UJ	160 UJ	R
cis-1,2-Dichloroethene	µg/kg	130 J	390 J	51 J
cis-1,3-Dichloropropene	µg/kg	52 UJ	87 UJ	R
Cyclohexane	µg/kg	230 UJ	380 UJ	1400 J
Dibromochloromethane	µg/kg	160 U	280 UJ	R
Dichlorodifluoromethane (CFC-12)	µg/kg	R	R	R
Ethylbenzene	µg/kg	21 U	33 UJ	4000 J
Isopropyl benzene	µg/kg	53 U	89 UJ	2700 J
Methyl acetate	µg/kg	730 U	1200 UJ	R
Methyl cyclohexane	µg/kg	92 UJ	160 UJ	11000 J
Methyl tert butyl ether (MTBE)	µg/kg	52 U	87 UJ	R
Methylene chloride	µg/kg	530 U	900 UJ	R

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-56**	**SS-57**	**SS-59**
	Sample Name:	**SS-38443-103018-JC-056**	**SS-38443-103018-JC-057**	**SS-38443-103018-JC-059**
	Sample Date:	**10/30/2018**	**10/30/2018**	**10/30/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
Styrene	µg/kg	17 U	28 UJ	R
Tetrachloroethene	µg/kg	55 U	41 UJ	R
Toluene	µg/kg	119 U	190 U	1100 J
trans-1,2-Dichloroethene	µg/kg	21 UJ	66 J	R
trans-1,3-Dichloropropene	µg/kg	150 U	250 UJ	R
Trichloroethene	µg/kg	4000 J	13000 J	R
Trichlorofluoromethane (CFC-11)	µg/kg	64 UJ	110 UJ	R
Trifluorotrichloroethane (CFC-113)	µg/kg	93 U	160 UJ	R
Vinyl chloride	µg/kg	14 UJ	24 UJ	R
Xylenes (total)	µg/kg	32 U	54 UJ	14000 J
Semivolatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	120 U	15 U	910 U
2,4,5-Trichlorophenol	µg/kg	830 U	100 U	6300 U
2,4,6-Trichlorophenol	µg/kg	770 U	96 U	5800 U
2,4-Dichlorophenol	µg/kg	530 U	66 U	4000 U
2,4-Dimethylphenol	µg/kg	480 U	60 U	3600 U
2,4-Dinitrophenol	µg/kg	1700 U	210 U	13000 U
2,4-Dinitrotoluene	µg/kg	750 U	93 U	5600 U
2,6-Dinitrotoluene	µg/kg	680 U	84 U	5100 U
2-Chloronaphthalene	µg/kg	170 U	21 U	1300 U
2-Chlorophenol	µg/kg	120 U	15 U	910 U
2-Methylnaphthalene	µg/kg	210	5.0 J	8600
2-Methylphenol	µg/kg	370 U	47 U	2800 U
2-Nitroaniline	µg/kg	480 U	60 U	3600 U
2-Nitrophenol	µg/kg	160 U	20 U	1200 U
3&4-Methylphenol	µg/kg	350 U	44 U	2600 U
3,3'-Dichlorobenzidine	µg/kg	520 U	65 U	3900 U
3-Nitroaniline	µg/kg	590 U	74 U	4500 U
4,6-Dinitro-2-methylphenol	µg/kg	970 U	120 U	7300 U
4-Bromophenyl phenyl ether	µg/kg	170 U	21 U	1300 U
4-Chloro-3-methylphenol	µg/kg	540 U	68 U	4100 U
4-Chloroaniline	µg/kg	360 U	45 U	2700 U
4-Chlorophenyl phenyl ether	µg/kg	170 U	21 U	1300 U
4-Nitroaniline	µg/kg	730 U	90 U	5500 U
4-Nitrophenol	µg/kg	1100 U	140 U	8600 U
Acenaphthene	µg/kg	590	4.3 U	340 J
Acenaphthylene	µg/kg	63 J	6.0 U	370 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-56**	**SS-57**	**SS-59**
	Sample Name:	**SS-38443-103018-JC-056**	**SS-38443-103018-JC-057**	**SS-38443-103018-JC-059**
	Sample Date:	**10/30/2018**	**10/30/2018**	**10/30/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Semivolatile Organic Compounds				
Acetophenone	µg/kg	130 U	17 U	1000 U
Anthracene	µg/kg	1700	3.6 U	220 U
Atrazine	µg/kg	440 U	54 U	3300 U
Benzaldehyde	µg/kg	280 U	35 U	2100 U
Benzo(a)anthracene	µg/kg	5200	5.1 U	650 J
Benzo(a)pyrene	µg/kg	5200	15 J	850 U
Benzo(b)fluoranthene	µg/kg	8000	10 J	660 J
Benzo(g,h,i)perylene	µg/kg	3600	11 U	650 U
Benzo(k)fluoranthene	µg/kg	3000	10 U	630 U
Biphenyl (1,1-Biphenyl)	µg/kg	210 U	26 U	1500 U
bis(2-Chloroethoxy)methane	µg/kg	150 U	18 U	1100 U
bis(2-Chloroethyl)ether	µg/kg	150 U	18 U	1100 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	620 U	77 U	10000
Butyl benzylphthalate (BBP)	µg/kg	270 U	33 U	2000 U
Caprolactam	µg/kg	910 U	110 U	6800 U
Carbazole	µg/kg	1100	29 U	1700 U
Chrysene	µg/kg	5700	12 J	1200 J
Di-n-butylphthalate (DBP)	µg/kg	270 U	33 U	3600 J
Di-n-octyl phthalate (DnOP)	µg/kg	340 U	42 U	2500 U
Dibenz(a,h)anthracene	µg/kg	920	10 U	630 U
Dibenzofuran	µg/kg	430 J	20 U	1200 U
Diethyl phthalate	µg/kg	370 U	47 U	2800 U
Dimethyl phthalate	µg/kg	170 U	21 U	1300 U
Fluoranthene	µg/kg	11000	15 J	1100 J
Fluorene	µg/kg	580	4.1 U	420 J
Hexachlorobenzene	µg/kg	34 U	4.3 U	260 U
Hexachlorobutadiene	µg/kg	150 U	18 U	1100 U
Hexachlorocyclopentadiene	µg/kg	750 U	93 U	5600 U
Hexachloroethane	µg/kg	110 U	14 U	820 U
Indeno(1,2,3-cd)pyrene	µg/kg	3100	11 U	670 U
Isophorone	µg/kg	150 U	18 U	1100 U
N-Nitrosodi-n-propylamine	µg/kg	130 U	17 U	1000 U
N-Nitrosodiphenylamine	µg/kg	150 U	18 U	1100 U
Naphthalene	µg/kg	390	3.6 U	4200
Nitrobenzene	µg/kg	160 U	20 U	1200 U
Pentachlorophenol	µg/kg	700 U	87 U	5300 UJ
Phenanthrene	µg/kg	7800	17 J	4100
Phenol	µg/kg	97 U	12 U	6600
Pyrene	µg/kg	8900	15 J	2000

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-56**	**SS-57**	**SS-59**
	Sample Name:	**SS-38443-103018-JC-056**	**SS-38443-103018-JC-057**	**SS-38443-103018-JC-059**
	Sample Date:	**10/30/2018**	**10/30/2018**	**10/30/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Herbicides				
2,4,5-T	µg/kg	--	--	--
2,4,5-TP (Silvex)	µg/kg	--	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/kg	--	--	--
PCBs				
Aroclor-1016 (PCB-1016)	µg/kg	26 U	32 U	2200 U
Aroclor-1221 (PCB-1221)	µg/kg	29 U	35 U	2400 U
Aroclor-1232 (PCB-1232)	µg/kg	28 U	34 U	2300 U
Aroclor-1242 (PCB-1242)	µg/kg	23 U	28 U	1900 U
Aroclor-1248 (PCB-1248)	µg/kg	29 U	35 U	2400 U
Aroclor-1254 (PCB-1254)	µg/kg	63	700	140000
Aroclor-1260 (PCB-1260)	µg/kg	26 U	32 U	2200 U
Pesticides				
4,4'-DDD	µg/kg	18 U	22 U	150 U
4,4'-DDE	µg/kg	18 U	22 U	150 U
4,4'-DDT	µg/kg	14 U	40 J	120 U
Aldrin	µg/kg	9.3 U	11 U	79 U
alpha-BHC	µg/kg	11 U	13 U	93 U
alpha-Chlordane	µg/kg	18 U	22 U	150 U
beta-BHC	µg/kg	21 U	25 U	180 U
delta-BHC	µg/kg	20 U	25 U	170 U
Dieldrin	µg/kg	13 U	16 U	110 U
Endosulfan I	µg/kg	14 U	18 U	120 U
Endosulfan II	µg/kg	18 U	22 U	150 U
Endosulfan sulfate	µg/kg	15 U	19 U	130 U
Endrin	µg/kg	23 U	28 U	190 U
Endrin aldehyde	µg/kg	16 U	19 U	280 J
Endrin ketone	µg/kg	11 U	13 U	91 U
gamma-BHC (lindane)	µg/kg	22 U	26 U	180 U
gamma-Chlordane	µg/kg	15 U	18 U	130 U
Heptachlor	µg/kg	19 U	23 U	160 U
Heptachlor epoxide	µg/kg	17 U	21 U	150 U
Methoxychlor	µg/kg	79 U	97 U	670 U
Toxaphene	µg/kg	300 U	370 U	2600 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-56**	**SS-57**	**SS-59**
	Sample Name:	**SS-38443-103018-JC-056**	**SS-38443-103018-JC-057**	**SS-38443-103018-JC-059**
	Sample Date:	**10/30/2018**	**10/30/2018**	**10/30/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs)				
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
Total heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
Total hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
Total pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
Total tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Metals				
Aluminum	mg/kg	8400	7100	4500
Antimony	mg/kg	18 J	0.68 J	0.59 J
Arsenic	mg/kg	23	19	3.6
Barium	mg/kg	1800	770	55
Beryllium	mg/kg	1.2	3.1	0.42
Cadmium	mg/kg	13	0.16 U	0.36
Calcium	mg/kg	42000	1400	120000
Chromium	mg/kg	91	24	8.5
Chromium III (trivalent)	mg/kg	91	22	8.5
Chromium VI (hexavalent)	mg/kg	0.29 U	1.4	1.3 U
Cobalt	mg/kg	17	8.1	2.2

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-56**	**SS-57**	**SS-59**
	Sample Name:	**SS-38443-103018-JC-056**	**SS-38443-103018-JC-057**	**SS-38443-103018-JC-059**
	Sample Date:	**10/30/2018**	**10/30/2018**	**10/30/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Metals				
Copper	mg/kg	1600	44	54
Iron	mg/kg	76000	4800	6400
Lead	mg/kg	1900 J	38 J	190 J
Lead - coarse fraction	mg/kg	--	--	6300
Lead - fine fraction	mg/kg	--	--	5300
Lead - total (calculated by fine/coarse fraction)	mg/kg	--	--	**6300**
Magnesium	mg/kg	10000	420	38000
Manganese	mg/kg	580	20	560
Mercury	mg/kg	0.57	0.18	0.19
Nickel	mg/kg	100	17	6.0
Potassium	mg/kg	890	1000	650
Selenium	mg/kg	3.4	2.4	0.16 J
Silver	mg/kg	28	0.16 J	0.083 J
Sodium	mg/kg	420	370	450
Thallium	mg/kg	0.25	0.28	0.067 U
Vanadium	mg/kg	31	36	9.1
Zinc	mg/kg	3100 J	87 J	36 J
General Chemistry				
Cyanide (total)	mg/kg	0.77	1.7	0.22 U
Soot carbon	mg/kg	--	--	--
Total organic carbon (TOC)	mg/kg	--	--	--

Notes:

R - Rejected
J - Estimated concentration
U - Not detected at the associated reporting limit
-- - Not applicable
UJ - Not detected; associated reporting limit is detected
PCBs - Polychlorinated Biphenyls

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-60**	**SS-61**	**SS-62**
	Sample Name:	**SS-38443-103018-JC-060**	**SS-38443-103018-JC-061**	**SS-38443-103018-JC-062**
	Sample Date:	**10/30/2018**	**10/30/2018**	**10/30/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/kg	39 UJ	0.95 U	1.5 U
1,1,2,2-Tetrachloroethane	µg/kg	39 UJ	R	R
1,1,2-Trichloroethane	µg/kg	36 UJ	1.3 U	2.1 U
1,1-Dichloroethane	µg/kg	25 UJ	0.81 U	1.3 J
1,1-Dichloroethene	µg/kg	42 UJ	1.1 U	1.6 U
1,2,4-Trichlorobenzene	µg/kg	370 UJ	R	R
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	240 UJ	R	R
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	220 UJ	0.90 U	1.4 U
1,2-Dichlorobenzene	µg/kg	58 UJ	R	R
1,2-Dichloroethane	µg/kg	33 UJ	0.90 U	1.4 U
1,2-Dichloropropane	µg/kg	22 UJ	0.99 U	1.6 U
1,3-Dichlorobenzene	µg/kg	58 UJ	R	R
1,4-Dichlorobenzene	µg/kg	47 UJ	R	R
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	440 UJ	4.1 U	6.5 U
2-Hexanone	µg/kg	730 UJ	4.7 U	7.4 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	660 UJ	4.3 U	6.8 U
Acetone	µg/kg	680 UJ	24 U	38 U
Benzene	µg/kg	22 UJ	0.81 U	1.3 U
Bromodichloromethane	µg/kg	78 UJ	0.79 U	1.2 U
Bromoform	µg/kg	290 UJ	2.8 U	4.4 U
Bromomethane (Methyl bromide)	µg/kg	460 UJ	1.1 U	1.8 U
Carbon disulfide	µg/kg	300 UJ	1.4 U	2.1 U
Carbon tetrachloride	µg/kg	50 UJ	3.8 U	5.9 U
Chlorobenzene	µg/kg	97 UJ	1.1 U	1.7 U
Chloroethane	µg/kg	420 UJ	1.4 U	2.2 U
Chloroform (Trichloromethane)	µg/kg	25 UJ	0.92 U	1.4 U
Chloromethane (Methyl chloride)	µg/kg	180 UJ	1.2 U	1.9 U
cis-1,2-Dichloroethene	µg/kg	25 UJ	0.76 U	1.2 J
cis-1,3-Dichloropropene	µg/kg	100 UJ	1.7 U	2.6 U
Cyclohexane	µg/kg	450 UJ	1.6 U	2.5 U
Dibromochloromethane	µg/kg	320 UJ	3.2 U	5.1 U
Dichlorodifluoromethane (CFC-12)	µg/kg	R	1.1 U	1.7 U
Ethylbenzene	µg/kg	46 UJ	1.2 U	1.9 U
Isopropyl benzene	µg/kg	110 UJ	0.97 U	1.5 U
Methyl acetate	µg/kg	1500 UJ	4.0 U	6.2 U
Methyl cyclohexane	µg/kg	180 UJ	1.4 U	2.2 U
Methyl tert butyl ether (MTBE)	µg/kg	100 UJ	0.95 U	1.5 U
Methylene chloride	µg/kg	1100 UJ	14 U	22 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-60**	**SS-61**	**SS-62**
	Sample Name:	**SS-38443-103018-JC-060**	**SS-38443-103018-JC-061**	**SS-38443-103018-JC-062**
	Sample Date:	**10/30/2018**	**10/30/2018**	**10/30/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
Styrene	µg/kg	33 UJ	1.3 U	2.1 U
Tetrachloroethene	µg/kg	7200 J	0.85 U	1.3 U
Toluene	µg/kg	290 U	0.90 U	1.4 U
trans-1,2-Dichloroethene	µg/kg	42 UJ	0.54 U	0.85 U
trans-1,3-Dichloropropene	µg/kg	290 UJ	1.2 U	1.9 U
Trichloroethene	µg/kg	270 J	5.3 J	1.2 U
Trichlorofluoromethane (CFC-11)	µg/kg	130 UJ	1.3 U	2.0 U
Trifluorotrichloroethane (CFC-113)	µg/kg	190 UJ	1.5 U	2.3 U
Vinyl chloride	µg/kg	28 UJ	0.97 U	1.5 U
Xylenes (total)	µg/kg	64 UJ	1.8 U	2.9 U
Semivolatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	13 U	43 U	12 U
2,4,5-Trichlorophenol	µg/kg	91 UJ	300 U	80 U
2,4,6-Trichlorophenol	µg/kg	85 UJ	280 U	74 U
2,4-Dichlorophenol	µg/kg	58 UJ	190 U	51 U
2,4-Dimethylphenol	µg/kg	53 UJ	170 U	46 U
2,4-Dinitrophenol	µg/kg	190 UJ	610 U	160 U
2,4-Dinitrotoluene	µg/kg	82 U	270 U	72 U
2,6-Dinitrotoluene	µg/kg	74 U	240 U	65 U
2-Chloronaphthalene	µg/kg	19 U	61 U	16 U
2-Chlorophenol	µg/kg	13 UJ	43 U	12 U
2-Methylnaphthalene	µg/kg	210	310	18
2-Methylphenol	µg/kg	41 UJ	130 U	36 U
2-Nitroaniline	µg/kg	53 U	170 U	46 U
2-Nitrophenol	µg/kg	17 UJ	56 U	15 U
3&4-Methylphenol	µg/kg	38 UJ	130 U	33 U
3,3'-Dichlorobenzidine	µg/kg	57 U	190 U	50 U
3-Nitroaniline	µg/kg	65 U	210 U	57 U
4,6-Dinitro-2-methylphenol	µg/kg	110 UJ	350 U	92 U
4-Bromophenyl phenyl ether	µg/kg	19 U	61 U	16 U
4-Chloro-3-methylphenol	µg/kg	60 UJ	190 U	52 U
4-Chloroaniline	µg/kg	40 U	130 U	35 U
4-Chlorophenyl phenyl ether	µg/kg	19 U	61 U	16 U
4-Nitroaniline	µg/kg	80 U	260 U	69 U
4-Nitrophenol	µg/kg	120 UJ	410 U	110 U
Acenaphthene	µg/kg	3.8 U	12 U	11 J
Acenaphthylene	µg/kg	5.3 U	190	110

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-60**	**SS-61**	**SS-62**
	Sample Name:	**SS-38443-103018-JC-060**	**SS-38443-103018-JC-061**	**SS-38443-103018-JC-062**
	Sample Date:	**10/30/2018**	**10/30/2018**	**10/30/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Semivolatile Organic Compounds				
Acetophenone	µg/kg	15 U	48 U	13 U
Anthracene	µg/kg	9.7 J	300	54
Atrazine	µg/kg	48 U	160 U	42 U
Benzaldehyde	µg/kg	30 U	100 U	27 U
Benzo(a)anthracene	µg/kg	30	1500	610
Benzo(a)pyrene	µg/kg	28	1100	750
Benzo(b)fluoranthene	µg/kg	47	2900	1100
Benzo(g,h,i)perylene	µg/kg	40	880	510
Benzo(k)fluoranthene	µg/kg	11 J	840	390
Biphenyl (1,1-Biphenyl)	µg/kg	23 J	74 U	20 U
bis(2-Chloroethoxy)methane	µg/kg	16 U	52 U	14 U
bis(2-Chloroethyl)ether	µg/kg	16 U	52 U	14 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	79 J	220 U	59 U
Butyl benzylphthalate (BBP)	µg/kg	29 U	95 U	25 U
Caprolactam	µg/kg	99 U	320 U	87 U
Carbazole	µg/kg	25 U	170 J	51 J
Chrysene	µg/kg	50	2000	730
Di-n-butylphthalate (DBP)	µg/kg	29 U	310	25 U
Di-n-octyl phthalate (DnOP)	µg/kg	37 U	120 U	32 U
Dibenz(a,h)anthracene	µg/kg	9.2 U	310	130
Dibenzofuran	µg/kg	54 J	120 J	15 U
Diethyl phthalate	µg/kg	41 U	130 U	36 U
Dimethyl phthalate	µg/kg	19 U	61 U	16 U
Fluoranthene	µg/kg	55	2300	960
Fluorene	µg/kg	3.6 U	79	14 J
Hexachlorobenzene	µg/kg	3.8 U	12 U	3.3 U
Hexachlorobutadiene	µg/kg	16 U	52 U	14 U
Hexachlorocyclopentadiene	µg/kg	82 U	270 U	72 U
Hexachloroethane	µg/kg	12 U	39 U	10 U
Indeno(1,2,3-cd)pyrene	µg/kg	9.8 U	820	470
Isophorone	µg/kg	16 U	52 U	14 U
N-Nitrosodi-n-propylamine	µg/kg	15 U	48 U	13 U
N-Nitrosodiphenylamine	µg/kg	16 U	52 U	14 U
Naphthalene	µg/kg	140	290	17
Nitrobenzene	µg/kg	17 U	56 U	15 U
Pentachlorophenol	µg/kg	77 UJ	250 U	67 UJ
Phenanthrene	µg/kg	160	1100	200
Phenol	µg/kg	11 UJ	35 U	9.2 U
Pyrene	µg/kg	45	1700	1000

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-60**	**SS-61**	**SS-62**
	Sample Name:	**SS-38443-103018-JC-060**	**SS-38443-103018-JC-061**	**SS-38443-103018-JC-062**
	Sample Date:	**10/30/2018**	**10/30/2018**	**10/30/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Herbicides				
2,4,5-T	µg/kg	--	--	--
2,4,5-TP (Silvex)	µg/kg	--	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/kg	--	--	--
PCBs				
Aroclor-1016 (PCB-1016)	µg/kg	290 U	23 U	25 U
Aroclor-1221 (PCB-1221)	µg/kg	320 U	25 U	28 U
Aroclor-1232 (PCB-1232)	µg/kg	300 U	24 U	26 U
Aroclor-1242 (PCB-1242)	µg/kg	250 U	20 U	22 U
Aroclor-1248 (PCB-1248)	µg/kg	320 U	25 U	28 U
Aroclor-1254 (PCB-1254)	µg/kg	11000	100	210
Aroclor-1260 (PCB-1260)	µg/kg	290 U	23 U	25 U
Pesticides				
4,4'-DDD	µg/kg	39 U	16 U	1.7 U
4,4'-DDE	µg/kg	280	16 U	1.7 U
4,4'-DDT	µg/kg	760	12 U	1.3 U
Aldrin	µg/kg	20 U	8.1 U	0.89 U
alpha-BHC	µg/kg	24 U	9.6 U	1.0 U
alpha-Chlordane	µg/kg	40 U	16 U	1.7 U
beta-BHC	µg/kg	46 U	18 U	2.0 U
delta-BHC	µg/kg	45 U	18 U	1.9 U
Dieldrin	µg/kg	29 U	12 U	1.3 U
Endosulfan I	µg/kg	32 U	13 U	1.4 U
Endosulfan II	µg/kg	39 U	16 U	1.7 U
Endosulfan sulfate	µg/kg	34 U	14 U	1.5 U
Endrin	µg/kg	50 U	20 U	2.2 U
Endrin aldehyde	µg/kg	35 U	14 U	1.5 U
Endrin ketone	µg/kg	23 U	9.4 U	1.0 U
gamma-BHC (lindane)	µg/kg	47 U	19 U	2.1 U
gamma-Chlordane	µg/kg	32 U	13 U	1.4 U
Heptachlor	µg/kg	42 U	17 U	1.8 U
Heptachlor epoxide	µg/kg	75 NJ	15 U	1.7 U
Methoxychlor	µg/kg	170 U	69 U	7.5 U
Toxaphene	µg/kg	660 U	260 U	29 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-60**	**SS-61**	**SS-62**
	Sample Name:	**SS-38443-103018-JC-060**	**SS-38443-103018-JC-061**	**SS-38443-103018-JC-062**
	Sample Date:	**10/30/2018**	**10/30/2018**	**10/30/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs)				
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
Total heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
Total hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
Total pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
Total tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Metals				
Aluminum	mg/kg	7700	7800	4600
Antimony	mg/kg	2.1 J	23 J	0.27 J
Arsenic	mg/kg	70	52	6.2
Barium	mg/kg	460	1100	99
Beryllium	mg/kg	4.5	0.91	0.59
Cadmium	mg/kg	1.4	30	0.23
Calcium	mg/kg	5600	19000	110000 J
Chromium	mg/kg	28	370	9.7
Chromium III (trivalent)	mg/kg	28	370	9.7
Chromium VI (hexavalent)	mg/kg	1.6 U	0.26 U	0.28 U
Cobalt	mg/kg	13	24	4.9

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-60**	**SS-61**	**SS-62**
	Sample Name:	**SS-38443-103018-JC-060**	**SS-38443-103018-JC-061**	**SS-38443-103018-JC-062**
	Sample Date:	**10/30/2018**	**10/30/2018**	**10/30/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Metals				
Copper	mg/kg	310	3300	18
Iron	mg/kg	13000	180000	9300
Lead	mg/kg	220 J	3400 J	110
Lead - coarse fraction	mg/kg	--	980	--
Lead - fine fraction	mg/kg	--	1500	--
Lead - total (calculated by fine/coarse fraction)	mg/kg	--	1100	--
Magnesium	mg/kg	1700	4900	46000 J
Manganese	mg/kg	60	2300	230
Mercury	mg/kg	0.087 J	3.2	0.41
Nickel	mg/kg	29	310	13
Potassium	mg/kg	900	1100	870
Selenium	mg/kg	4.0	3.7	0.45 J
Silver	mg/kg	0.89	12	0.11 J
Sodium	mg/kg	150 J	1500	140 J
Thallium	mg/kg	2.0	1.0	0.17 J
Vanadium	mg/kg	66	130	14
Zinc	mg/kg	120 J	3400 J	80 J
General Chemistry				
Cyanide (total)	mg/kg	4.1	0.38 J	0.21 U
Soot carbon	mg/kg	--	--	--
Total organic carbon (TOC)	mg/kg	--	--	--

Notes:

R - Rejected
J - Estimated concentration
U - Not detected at the associated reporting limit
-- - Not applicable
UJ - Not detected; associated reporting limit is detected
PCBs - Polychlorinated Biphenyls

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-63**	**SS-64**	**SS-65**
	Sample Name:	**SS-38443-103018-JC-063**	**SS-38443-103018-JC-064**	**SS-38443-103018-JC-065**
	Sample Date:	**10/30/2018**	**10/30/2018**	**10/30/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/kg	0.84 U	18 UJ	33 U
1,1,2,2-Tetrachloroethane	µg/kg	1.5 U	18 UJ	33 U
1,1,2-Trichloroethane	µg/kg	1.2 U	16 UJ	30 U
1,1-Dichloroethane	µg/kg	0.71 U	11 UJ	21 UJ
1,1-Dichloroethene	µg/kg	0.93 U	19 UJ	35 UJ
1,2,4-Trichlorobenzene	µg/kg	0.59 U	170 UJ	310 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	3.7 U	110 UJ	210 U
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	0.79 U	99 UJ	190 U
1,2-Dichlorobenzene	µg/kg	1.1 U	26 UJ	49 U
1,2-Dichloroethane	µg/kg	0.79 U	15 UJ	28 U
1,2-Dichloropropane	µg/kg	0.88 U	10 UJ	19 UJ
1,3-Dichlorobenzene	µg/kg	0.84 U	26 UJ	49 U
1,4-Dichlorobenzene	µg/kg	0.91 U	21 UJ	40 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	5.6 J	200 UJ	380 J
2-Hexanone	µg/kg	4.2 U	330 UJ	620 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	3.8 U	300 UJ	560 U
Acetone	µg/kg	86	420 J	770 J
Benzene	µg/kg	0.72 U	10 UJ	19 UJ
Bromodichloromethane	µg/kg	0.70 U	35 UJ	66 U
Bromoform	µg/kg	2.5 U	130 UJ	250 U
Bromomethane (Methyl bromide)	µg/kg	1.0 U	R	390 U
Carbon disulfide	µg/kg	1.2 U	R	250 UJ
Carbon tetrachloride	µg/kg	3.3 U	23 UJ	42 U
Chlorobenzene	µg/kg	0.94 U	44 UJ	82 U
Chloroethane	µg/kg	1.3 U	190 UJ	350 U
Chloroform (Trichloromethane)	µg/kg	0.81 U	11 UJ	21 U
Chloromethane (Methyl chloride)	µg/kg	1.1 U	83 UJ	150 UJ
cis-1,2-Dichloroethene	µg/kg	0.67 U	28 J	21 UJ
cis-1,3-Dichloropropene	µg/kg	1.5 U	46 UJ	87 UJ
Cyclohexane	µg/kg	1.4 U	200 UJ	1400 J
Dibromochloromethane	µg/kg	2.9 U	150 UJ	270 U
Dichlorodifluoromethane (CFC-12)	µg/kg	0.97 U	R	R
Ethylbenzene	µg/kg	1.1 U	65 J	190 U
Isopropyl benzene	µg/kg	0.86 U	48 UJ	150 J
Methyl acetate	µg/kg	3.5 U	660 UJ	1200 U
Methyl cyclohexane	µg/kg	1.3 U	350 J	5900 J
Methyl tert butyl ether (MTBE)	µg/kg	0.84 U	46 UJ	87 U
Methylene chloride	µg/kg	12 U	980 J	900 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-63**	**SS-64**	**SS-65**
	Sample Name:	**SS-38443-103018-JC-063**	**SS-38443-103018-JC-064**	**SS-38443-103018-JC-065**
	Sample Date:	**10/30/2018**	**10/30/2018**	**10/30/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
Styrene	µg/kg	1.2 U	15 UJ	28 U
Tetrachloroethene	µg/kg	0.75 U	58 J	35 U
Toluene	µg/kg	0.80 U	320 J	630 J
trans-1,2-Dichloroethene	µg/kg	0.48 U	19 UJ	35 UJ
trans-1,3-Dichloropropene	µg/kg	1.1 U	130 UJ	250 U
Trichloroethene	µg/kg	0.65 U	81 J	30 UJ
Trichlorofluoromethane (CFC-11)	µg/kg	1.1 U	58 UJ	110 UJ
Trifluorotrichloroethane (CFC-113)	µg/kg	1.3 U	84 UJ	160 U
Vinyl chloride	µg/kg	0.86 U	13 UJ	23 UJ
Xylenes (total)	µg/kg	1.6 U	510 J	2300 J
Semivolatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	12 U	11 U	12 U
2,4,5-Trichlorophenol	µg/kg	83 U	74 U	81 U
2,4,6-Trichlorophenol	µg/kg	77 U	69 U	75 U
2,4-Dichlorophenol	µg/kg	53 U	47 U	51 U
2,4-Dimethylphenol	µg/kg	48 U	43 UJ	47 U
2,4-Dinitrophenol	µg/kg	170 U	150 U	170 U
2,4-Dinitrotoluene	µg/kg	74 U	67 U	72 U
2,6-Dinitrotoluene	µg/kg	67 U	60 U	65 U
2-Chloronaphthalene	µg/kg	17 U	15 U	16 U
2-Chlorophenol	µg/kg	12 U	11 U	12 U
2-Methylnaphthalene	µg/kg	15 J	430	770 J
2-Methylphenol	µg/kg	37 U	33 U	36 U
2-Nitroaniline	µg/kg	48 U	43 U	47 U
2-Nitrophenol	µg/kg	16 U	14 U	15 U
3&4-Methylphenol	µg/kg	35 U	31 U	34 U
3,3'-Dichlorobenzidine	µg/kg	51 U	R	50 U
3-Nitroaniline	µg/kg	59 U	53 U	57 U
4,6-Dinitro-2-methylphenol	µg/kg	96 U	86 U	93 U
4-Bromophenyl phenyl ether	µg/kg	17 U	15 U	16 U
4-Chloro-3-methylphenol	µg/kg	54 U	48 U	53 U
4-Chloroaniline	µg/kg	36 U	32 U	35 U
4-Chlorophenyl phenyl ether	µg/kg	17 U	15 U	16 U
4-Nitroaniline	µg/kg	72 U	64 U	70 U
4-Nitrophenol	µg/kg	110 U	100 U	110 U
Acenaphthene	µg/kg	3.4 U	22	3.3 UJ
Acenaphthylene	µg/kg	4.8 U	4.3 U	4.7 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-63**	**SS-64**	**SS-65**
	Sample Name:	**SS-38443-103018-JC-063**	**SS-38443-103018-JC-064**	**SS-38443-103018-JC-065**
	Sample Date:	**10/30/2018**	**10/30/2018**	**10/30/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Semivolatile Organic Compounds				
Acetophenone	µg/kg	13 U	12 U	13 U
Anthracene	µg/kg	2.9 U	16	41 J
Atrazine	µg/kg	43 U	39 U	42 U
Benzaldehyde	µg/kg	28 U	35 J	70 J
Benzo(a)anthracene	µg/kg	5.3 J	63	140 J
Benzo(a)pyrene	µg/kg	11 U	37	74 J
Benzo(b)fluoranthene	µg/kg	9.4 J	69	140 J
Benzo(g,h,i)perylene	µg/kg	9.4 J	59	78 J
Benzo(k)fluoranthene	µg/kg	8.3 U	9.5 J	28 J
Biphenyl (1,1-Biphenyl)	µg/kg	20 U	34 J	43 J
bis(2-Chloroethoxy)methane	µg/kg	14 U	13 U	14 U
bis(2-Chloroethyl)ether	µg/kg	14 U	13 U	14 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	83 J	67 J	60 U
Butyl benzylphthalate (BBP)	µg/kg	26 U	24 U	26 U
Caprolactam	µg/kg	90 U	80 U	88 U
Carbazole	µg/kg	23 U	32 J	40 J
Chrysene	µg/kg	10 J	120	170 J
Di-n-butylphthalate (DBP)	µg/kg	26 U	24 U	26 U
Di-n-octyl phthalate (DnOP)	µg/kg	33 U	30 U	33 U
Dibenz(a,h)anthracene	µg/kg	8.3 U	17	24 J
Dibenzofuran	µg/kg	16 U	110	230 J
Diethyl phthalate	µg/kg	37 U	33 U	36 U
Dimethyl phthalate	µg/kg	17 U	15 U	16 U
Fluoranthene	µg/kg	5.6 J	72	130 J
Fluorene	µg/kg	3.3 U	32	20 J
Hexachlorobenzene	µg/kg	3.4 U	3.1 U	3.3 U
Hexachlorobutadiene	µg/kg	14 U	13 U	14 U
Hexachlorocyclopentadiene	µg/kg	74 U	R	72 U
Hexachloroethane	µg/kg	11 U	9.7 U	11 U
Indeno(1,2,3-cd)pyrene	µg/kg	8.8 U	18	29 J
Isophorone	µg/kg	14 U	13 U	14 U
N-Nitrosodi-n-propylamine	µg/kg	13 U	12 U	13 U
N-Nitrosodiphenylamine	µg/kg	14 U	13 U	14 U
Naphthalene	µg/kg	6.1 J	230	360 J
Nitrobenzene	µg/kg	16 U	14 U	15 U
Pentachlorophenol	µg/kg	69 UJ	62 UJ	68 UJ
Phenanthrene	µg/kg	28	390	590 J
Phenol	µg/kg	9.6 U	8.6 U	9.3 U
Pyrene	µg/kg	7.0 J	100	150 J

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-63**	**SS-64**	**SS-65**
	Sample Name:	**SS-38443-103018-JC-063**	**SS-38443-103018-JC-064**	**SS-38443-103018-JC-065**
	Sample Date:	**10/30/2018**	**10/30/2018**	**10/30/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Herbicides				
2,4,5-T	µg/kg	--	--	--
2,4,5-TP (Silvex)	µg/kg	--	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/kg	--	--	--
PCBs				
Aroclor-1016 (PCB-1016)	µg/kg	26 U	24 U	25 U
Aroclor-1221 (PCB-1221)	µg/kg	28 U	26 U	28 U
Aroclor-1232 (PCB-1232)	µg/kg	27 U	25 U	26 U
Aroclor-1242 (PCB-1242)	µg/kg	22 U	20 U	22 U
Aroclor-1248 (PCB-1248)	µg/kg	28 U	26 U	28 U
Aroclor-1254 (PCB-1254)	µg/kg	27 U	25 U	26 U
Aroclor-1260 (PCB-1260)	µg/kg	26 U	24 U	25 U
Pesticides				
4,4'-DDD	µg/kg	1.7 U	1.6 U	17 U
4,4'-DDE	µg/kg	1.8 U	1.6 U	17 U
4,4'-DDT	µg/kg	1.3 U	1.2 U	13 U
Aldrin	µg/kg	0.91 U	0.83 U	8.9 U
alpha-BHC	µg/kg	1.1 U	0.98 U	10 U
alpha-Chlordane	µg/kg	1.8 U	1.6 U	17 U
beta-BHC	µg/kg	2.0 U	1.9 U	20 NJ
delta-BHC	µg/kg	2.0 U	1.8 U	19 U
Dieldrin	µg/kg	1.3 U	1.2 U	13 U
Endosulfan I	µg/kg	1.4 U	1.3 U	14 U
Endosulfan II	µg/kg	1.7 U	1.6 U	17 U
Endosulfan sulfate	µg/kg	1.5 U	1.4 U	15 U
Endrin	µg/kg	2.2 U	2.0 U	22 U
Endrin aldehyde	µg/kg	1.5 U	1.4 U	15 U
Endrin ketone	µg/kg	1.0 U	0.95 U	10 U
gamma-BHC (lindane)	µg/kg	2.1 U	1.9 U	21 U
gamma-Chlordane	µg/kg	1.4 U	1.3 U	14 U
Heptachlor	µg/kg	1.9 U	1.7 U	18 U
Heptachlor epoxide	µg/kg	1.7 U	1.5 U	17 U
Methoxychlor	µg/kg	7.7 U	7.0 U	76 U
Toxaphene	µg/kg	29 U	27 U	290 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-63**	**SS-64**	**SS-65**
	Sample Name:	**SS-38443-103018-JC-063**	**SS-38443-103018-JC-064**	**SS-38443-103018-JC-065**
	Sample Date:	**10/30/2018**	**10/30/2018**	**10/30/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs)				
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
Total heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
Total hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
Total pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
Total tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Metals				
Aluminum	mg/kg	2000	840	3200
Antimony	mg/kg	0.19 J	0.24 J	0.27 J
Arsenic	mg/kg	2.4	5.5	9.9 J
Barium	mg/kg	130	100	150 J
Beryllium	mg/kg	0.23	0.36	0.47 J
Cadmium	mg/kg	0.24	0.28	0.090 U
Calcium	mg/kg	25000	1400 J	1700
Chromium	mg/kg	39	7.8	7.0
Chromium III (trivalent)	mg/kg	39	7.8	7.0
Chromium VI (hexavalent)	mg/kg	0.29 U	0.26 U	0.28 U
Cobalt	mg/kg	2.8	6.4	3.5

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-63**	**SS-64**	**SS-65**
	Sample Name:	**SS-38443-103018-JC-063**	**SS-38443-103018-JC-064**	**SS-38443-103018-JC-065**
	Sample Date:	**10/30/2018**	**10/30/2018**	**10/30/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Metals				
Copper	mg/kg	28	21	21
Iron	mg/kg	4800	5500	6600
Lead	mg/kg	35 J	31	8.1 J
Lead - coarse fraction	mg/kg	--	--	--
Lead - fine fraction	mg/kg	--	--	--
Lead - total (calculated by fine/coarse fraction)	mg/kg	--	--	--
Magnesium	mg/kg	9100	720 J	32000 J
Manganese	mg/kg	110	15	240 J
Mercury	mg/kg	0.023 U	0.021 J	0.022 U
Nickel	mg/kg	8.6	22	8.8
Potassium	mg/kg	550	170 J	580
Selenium	mg/kg	0.26 J	0.71 J	0.47 J
Silver	mg/kg	0.025 J	0.029 J	0.021 J
Sodium	mg/kg	85 J	53 U	130 J
Thallium	mg/kg	0.052 U	0.086 U	0.27
Vanadium	mg/kg	12	12	13 J
Zinc	mg/kg	28 J	150 J	39 J
General Chemistry				
Cyanide (total)	mg/kg	0.25 U	1.4	0.25 U
Soot carbon	mg/kg	--	--	--
Total organic carbon (TOC)	mg/kg	--	--	--

Notes:

R - Rejected
J - Estimated concentration
U - Not detected at the associated reporting limit
-- - Not applicable
UJ - Not detected; associated reporting limit is detected
PCBs - Polychlorinated Biphenyls

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-65**	**SS-66**	**SS-67**
	Sample Name:	**SS-38443-103018-JC-118**	**SS-38443-103018-JC-066**	**SS-38443-103018-JC-067**
	Sample Date:	**10/30/2018**	**10/30/2018**	**10/30/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
		Duplicate		
Parameters	**Unit**			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/kg	1.1 U	0.71 U	0.93 U
1,1,2,2-Tetrachloroethane	µg/kg	2.0 UJ	1.2 U	1.6 U
1,1,2-Trichloroethane	µg/kg	1.6 UJ	0.98 U	1.3 U
1,1-Dichloroethane	µg/kg	0.95 U	0.60 U	0.79 U
1,1-Dichloroethene	µg/kg	1.2 U	0.78 U	1.0 U
1,2,4-Trichlorobenzene	µg/kg	R	0.49 U	0.65 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	R	3.1 U	4.1 U
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	1.1 UJ	0.67 U	0.87 U
1,2-Dichlorobenzene	µg/kg	R	0.96 U	1.3 U
1,2-Dichloroethane	µg/kg	1.1 U	0.67 U	0.88 U
1,2-Dichloropropane	µg/kg	1.2 U	0.74 U	0.97 U
1,3-Dichlorobenzene	µg/kg	R	0.71 U	0.93 U
1,4-Dichlorobenzene	µg/kg	R	0.76 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	4.9 UJ	3.1 U	4.6 J
2-Hexanone	µg/kg	5.6 UJ	3.5 U	4.6 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	5.1 UJ	3.2 U	4.2 U
Acetone	µg/kg	29 UJ	18 U	24 U
Benzene	µg/kg	0.96 U	0.60 U	0.79 U
Bromodichloromethane	µg/kg	0.93 U	0.59 U	0.77 U
Bromoform	µg/kg	3.3 UJ	2.1 U	2.7 U
Bromomethane (Methyl bromide)	µg/kg	1.4 U	0.85 U	1.1 U
Carbon disulfide	µg/kg	1.6 U	1.0 U	1.3 U
Carbon tetrachloride	µg/kg	4.5 U	2.8 U	3.7 U
Chlorobenzene	µg/kg	1.3 UJ	0.79 U	1.0 U
Chloroethane	µg/kg	1.7 U	1.1 U	1.4 U
Chloroform (Trichloromethane)	µg/kg	1.1 U	0.68 U	0.89 U
Chloromethane (Methyl chloride)	µg/kg	1.4 U	0.90 U	1.2 U
cis-1,2-Dichloroethene	µg/kg	1.5 U	0.56 U	0.74 U
cis-1,3-Dichloropropene	µg/kg	2.0 U	1.2 U	1.6 U
Cyclohexane	µg/kg	1.9 UJ	1.2 U	1.6 U
Dibromochloromethane	µg/kg	3.8 UJ	2.4 U	3.2 U
Dichlorodifluoromethane (CFC-12)	µg/kg	1.3 U	0.81 U	1.1 U
Ethylbenzene	µg/kg	1.4 UJ	0.90 U	1.2 U
Isopropyl benzene	µg/kg	1.1 UJ	0.72 U	0.94 U
Methyl acetate	µg/kg	4.7 U	2.9 U	3.9 U
Methyl cyclohexane	µg/kg	1.7 UJ	1.1 U	1.4 U
Methyl tert butyl ether (MTBE)	µg/kg	1.1 U	0.71 U	0.93 U
Methylene chloride	µg/kg	17 U	10 U	14 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-65**	**SS-66**	**SS-67**
	Sample Name:	**SS-38443-103018-JC-118**	**SS-38443-103018-JC-066**	**SS-38443-103018-JC-067**
	Sample Date:	**10/30/2018**	**10/30/2018**	**10/30/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
		Duplicate		
Parameters	**Unit**			
Volatile Organic Compounds				
Styrene	µg/kg	1.6 UJ	1.0 U	1.3 U
Tetrachloroethene	µg/kg	1.0 UJ	0.63 U	0.83 U
Toluene	µg/kg	1.1 UJ	0.67 U	0.88 U
trans-1,2-Dichloroethene	µg/kg	0.64 U	0.40 U	0.53 U
trans-1,3-Dichloropropene	µg/kg	1.4 UJ	0.89 U	1.2 U
Trichloroethene	µg/kg	2.7 J	3.7 J	2.7 J
Trichlorofluoromethane (CFC-11)	µg/kg	1.5 U	0.93 U	1.2 U
Trifluorotrichloroethane (CFC-113)	µg/kg	1.8 U	1.1 U	1.5 U
Vinyl chloride	µg/kg	1.2 U	0.72 U	0.95 U
Xylenes (total)	µg/kg	2.2 UJ	1.4 U	1.8 U
Semivolatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	29 U	11 U	12 U
2,4,5-Trichlorophenol	µg/kg	200 U	75 U	81 U
2,4,6-Trichlorophenol	µg/kg	190 U	70 U	75 U
2,4-Dichlorophenol	µg/kg	130 U	48 U	52 U
2,4-Dimethylphenol	µg/kg	120 U	44 U	47 U
2,4-Dinitrophenol	µg/kg	410 U	150 U	170 U
2,4-Dinitrotoluene	µg/kg	180 U	67 U	73 U
2,6-Dinitrotoluene	µg/kg	160 U	61 U	66 U
2-Chloronaphthalene	µg/kg	41 U	15 U	16 U
2-Chlorophenol	µg/kg	29 U	11 U	12 U
2-Methylnaphthalene	µg/kg	3200 J	16	24
2-Methylphenol	µg/kg	90 U	34 U	36 U
2-Nitroaniline	µg/kg	120 U	44 U	47 U
2-Nitrophenol	µg/kg	38 U	14 U	15 U
3&4-Methylphenol	µg/kg	85 U	32 U	34 U
3,3'-Dichlorobenzidine	µg/kg	130 U	47 U	51 U
3-Nitroaniline	µg/kg	140 U	53 U	58 U
4,6-Dinitro-2-methylphenol	µg/kg	230 U	87 U	94 U
4-Bromophenyl phenyl ether	µg/kg	41 U	15 U	16 U
4-Chloro-3-methylphenol	µg/kg	130 U	49 U	53 U
4-Chloroaniline	µg/kg	87 U	33 U	35 U
4-Chlorophenyl phenyl ether	µg/kg	41 U	15 U	16 U
4-Nitroaniline	µg/kg	170 U	65 U	70 U
4-Nitrophenol	µg/kg	270 U	100 U	110 U
Acenaphthene	µg/kg	95 J	3.1 U	3.4 U
Acenaphthylene	µg/kg	12 U	6.2 J	12 J

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-65**	**SS-66**	**SS-67**
	Sample Name:	**SS-38443-103018-JC-118**	**SS-38443-103018-JC-066**	**SS-38443-103018-JC-067**
	Sample Date:	**10/30/2018**	**10/30/2018**	**10/30/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
		Duplicate		
Parameters	**Unit**			
Semivolatile Organic Compounds				
Acetophenone	µg/kg	32 U	12 U	13 U
Anthracene	µg/kg	200 J	12 J	9.3 J
Atrazine	µg/kg	100 U	39 U	42 U
Benzaldehyde	µg/kg	330 J	25 U	27 U
Benzo(a)anthracene	µg/kg	610 J	99	62
Benzo(a)pyrene	µg/kg	330 J	99	78
Benzo(b)fluoranthene	µg/kg	640 J	150	110
Benzo(g,h,i)perylene	µg/kg	320 J	56	56
Benzo(k)fluoranthene	µg/kg	84 J	52	36
Biphenyl (1,1-Biphenyl)	µg/kg	170 J	19 U	20 U
bis(2-Chloroethoxy)methane	µg/kg	35 U	13 U	14 U
bis(2-Chloroethyl)ether	µg/kg	35 U	13 U	14 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	150 U	170	60 U
Butyl benzylphthalate (BBP)	µg/kg	64 U	24 U	26 U
Caprolactam	µg/kg	220 U	82 U	88 U
Carbazole	µg/kg	140 J	21 U	22 U
Chrysene	µg/kg	730 J	120	80
Di-n-butylphthalate (DBP)	µg/kg	64 U	24 U	26 U
Di-n-octyl phthalate (DnOP)	µg/kg	82 U	30 U	33 U
Dibenz(a,h)anthracene	µg/kg	88 J	19	13 J
Dibenzofuran	µg/kg	990 J	14 U	15 U
Diethyl phthalate	µg/kg	90 U	34 U	36 U
Dimethyl phthalate	µg/kg	41 U	15 U	16 U
Fluoranthene	µg/kg	590 J	160	110
Fluorene	µg/kg	77 J	3.0 U	3.2 U
Hexachlorobenzene	µg/kg	8.3 U	3.1 U	3.3 U
Hexachlorobutadiene	µg/kg	35 U	13 U	14 U
Hexachlorocyclopentadiene	µg/kg	180 U	67 U	73 U
Hexachloroethane	µg/kg	26 U	9.8 U	11 U
Indeno(1,2,3-cd)pyrene	µg/kg	120 J	49	50
Isophorone	µg/kg	35 U	13 U	14 U
N-Nitrosodi-n-propylamine	µg/kg	32 U	12 U	13 U
N-Nitrosodiphenylamine	µg/kg	35 U	13 U	14 U
Naphthalene	µg/kg	1500 J	12 J	16 J
Nitrobenzene	µg/kg	38 U	14 U	15 U
Pentachlorophenol	µg/kg	170 UJ	63 U	68 U
Phenanthrene	µg/kg	2300 J	46	55
Phenol	µg/kg	23 U	8.7 U	9.4 U
Pyrene	µg/kg	660 J	150	98

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-65**	**SS-66**	**SS-67**
	Sample Name:	**SS-38443-103018-JC-118**	**SS-38443-103018-JC-066**	**SS-38443-103018-JC-067**
	Sample Date:	**10/30/2018**	**10/30/2018**	**10/30/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
		Duplicate		
Parameters	**Unit**			
Herbicides				
2,4,5-T	µg/kg	--	--	--
2,4,5-TP (Silvex)	µg/kg	--	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/kg	--	--	--
PCBs				
Aroclor-1016 (PCB-1016)	µg/kg	32 U	24 U	25 U
Aroclor-1221 (PCB-1221)	µg/kg	35 U	26 U	28 U
Aroclor-1232 (PCB-1232)	µg/kg	34 U	25 U	27 U
Aroclor-1242 (PCB-1242)	µg/kg	28 U	20 U	22 U
Aroclor-1248 (PCB-1248)	µg/kg	35 U	26 U	28 U
Aroclor-1254 (PCB-1254)	µg/kg	34 U	25 U	27 U
Aroclor-1260 (PCB-1260)	µg/kg	32 U	24 U	25 U
Pesticides				
4,4'-DDD	µg/kg	22 U	1.6 U	1.7 U
4,4'-DDE	µg/kg	22 U	1.6 U	1.7 U
4,4'-DDT	µg/kg	16 U	1.2 U	1.3 U
Aldrin	µg/kg	11 U	0.82 U	0.89 U
alpha-BHC	µg/kg	13 U	0.97 U	1.1 U
alpha-Chlordane	µg/kg	22 U	1.6 U	1.7 U
beta-BHC	µg/kg	25 U	1.8 U	2.0 U
delta-BHC	µg/kg	25 U	1.8 U	2.0 U
Dieldrin	µg/kg	16 U	1.2 U	1.3 U
Endosulfan I	µg/kg	18 U	1.3 U	1.4 U
Endosulfan II	µg/kg	22 U	1.6 U	1.7 U
Endosulfan sulfate	µg/kg	19 U	1.4 U	1.5 U
Endrin	µg/kg	28 U	2.0 U	2.2 U
Endrin aldehyde	µg/kg	19 U	1.4 U	1.5 U
Endrin ketone	µg/kg	13 U	0.95 U	1.0 U
gamma-BHC (lindane)	µg/kg	26 U	1.9 U	2.1 U
gamma-Chlordane	µg/kg	18 U	1.3 U	1.4 U
Heptachlor	µg/kg	23 U	1.7 U	1.8 U
Heptachlor epoxide	µg/kg	21 U	1.5 U	1.7 U
Methoxychlor	µg/kg	96 U	7.0 U	7.6 U
Toxaphene	µg/kg	360 U	27 U	29 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-65**	**SS-66**	**SS-67**
	Sample Name:	**SS-38443-103018-JC-118**	**SS-38443-103018-JC-066**	**SS-38443-103018-JC-067**
	Sample Date:	**10/30/2018**	**10/30/2018**	**10/30/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
		Duplicate		
Parameters	**Unit**			
Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs)				
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
Total heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
Total hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
Total pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
Total tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Metals				
Aluminum	mg/kg	3600	3400	7900
Antimony	mg/kg	1.7 J	0.35 J	0.63 J
Arsenic	mg/kg	46 J	5.0	9.4
Barium	mg/kg	560 J	58	110
Beryllium	mg/kg	1.5 J	0.19	0.97
Cadmium	mg/kg	0.091 U	0.27	0.40
Calcium	mg/kg	2400	130000	58000
Chromium	mg/kg	15	9.6	17
Chromium III (trivalent)	mg/kg	15	9.6	17
Chromium VI (hexavalent)	mg/kg	0.35 U	0.26 U	0.28 U
Cobalt	mg/kg	7.0	3.7	7.1

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-65**	**SS-66**	**SS-67**
	Sample Name:	**SS-38443-103018-JC-118**	**SS-38443-103018-JC-066**	**SS-38443-103018-JC-067**
	Sample Date:	**10/30/2018**	**10/30/2018**	**10/30/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
		Duplicate		
Parameters	**Unit**			
Metals				
Copper	mg/kg	44	24	79
Iron	mg/kg	4400	9900	12000
Lead	mg/kg	34 J	58 J	42 J
Lead - coarse fraction	mg/kg	--	80	--
Lead - fine fraction	mg/kg	--	200	--
Lead - total (calculated by fine/coarse fraction)	mg/kg	--	92	--
Magnesium	mg/kg	330 J	55000	25000
Manganese	mg/kg	17 J	400	390
Mercury	mg/kg	0.071 J	0.018 J	0.13
Nickel	mg/kg	16	11	19
Potassium	mg/kg	560	630	880
Selenium	mg/kg	4.8 J	0.16 J	0.65 J
Silver	mg/kg	0.10 J	0.049 J	0.15 J
Sodium	mg/kg	110 J	150 J	480
Thallium	mg/kg	0.70	0.14 J	0.27
Vanadium	mg/kg	49 J	11	22
Zinc	mg/kg	48 J	99 J	89 J
General Chemistry				
Cyanide (total)	mg/kg	0.31 J	0.21 U	0.25 U
Soot carbon	mg/kg	--	--	--
Total organic carbon (TOC)	mg/kg	--	--	--

Notes:

R - Rejected
J - Estimated concentration
U - Not detected at the associated reporting limit
-- - Not applicable
UJ - Not detected; associated reporting limit is detected
PCBs - Polychlorinated Biphenyls

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-68**	**SS-69**	**SS-70**
	Sample Name:	**SS-38443-103018-JC-068**	**SS-38443-103018-JC-069**	**SS-38443-103018-JC-070**
	Sample Date:	**10/30/2018**	**10/30/2018**	**10/30/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/kg	0.68 U	0.78 U	0.73 U
1,1,2,2-Tetrachloroethane	µg/kg	1.2 U	1.4 U	1.3 U
1,1,2-Trichloroethane	µg/kg	0.93 U	1.1 U	1.0 U
1,1-Dichloroethane	µg/kg	0.57 U	0.66 U	0.62 U
1,1-Dichloroethene	µg/kg	0.74 U	0.86 U	0.81 U
1,2,4-Trichlorobenzene	µg/kg	0.47 U	0.54 U	0.51 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	3.0 U	3.4 U	3.2 U
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	0.63 U	0.73 U	0.69 U
1,2-Dichlorobenzene	µg/kg	0.92 U	1.1 U	1.0 U
1,2-Dichloroethane	µg/kg	0.64 U	0.73 U	0.69 U
1,2-Dichloropropane	µg/kg	0.70 U	0.81 U	0.76 U
1,3-Dichlorobenzene	µg/kg	0.67 U	0.77 U	0.73 U
1,4-Dichlorobenzene	µg/kg	0.73 U	0.84 U	0.79 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	2.9 U	3.9 J	3.2 U
2-Hexanone	µg/kg	3.4 U	3.9 U	3.7 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	3.1 U	3.5 U	3.3 U
Acetone	µg/kg	17 U	24	19 U
Benzene	µg/kg	0.58 U	0.66 U	0.63 U
Bromodichloromethane	µg/kg	0.56 U	0.64 U	0.61 U
Bromoform	µg/kg	2.0 U	2.3 U	2.2 U
Bromomethane (Methyl bromide)	µg/kg	0.81 U	0.94 U	0.89 U
Carbon disulfide	µg/kg	0.96 U	1.1 U	1.0 U
Carbon tetrachloride	µg/kg	2.7 U	3.1 U	2.9 U
Chlorobenzene	µg/kg	0.76 U	0.87 U	0.82 U
Chloroethane	µg/kg	1.0 U	1.2 U	1.1 U
Chloroform (Trichloromethane)	µg/kg	0.65 U	0.75 U	0.71 U
Chloromethane (Methyl chloride)	µg/kg	0.86 U	0.99 U	0.93 U
cis-1,2-Dichloroethene	µg/kg	0.54 U	0.62 U	0.58 U
cis-1,3-Dichloropropene	µg/kg	1.2 U	1.4 U	1.3 U
Cyclohexane	µg/kg	1.1 U	1.3 U	1.2 U
Dibromochloromethane	µg/kg	2.3 U	2.6 U	2.5 U
Dichlorodifluoromethane (CFC-12)	µg/kg	0.78 U	0.89 U	0.85 U
Ethylbenzene	µg/kg	0.86 U	0.99 U	0.94 U
Isopropyl benzene	µg/kg	0.69 U	0.79 U	0.75 U
Methyl acetate	µg/kg	2.8 U	3.2 U	3.0 U
Methyl cyclohexane	µg/kg	1.0 U	1.2 U	1.1 U
Methyl tert butyl ether (MTBE)	µg/kg	0.68 U	0.78 U	0.73 U
Methylene chloride	µg/kg	9.9 U	11 U	11 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-68**	**SS-69**	**SS-70**
	Sample Name:	**SS-38443-103018-JC-068**	**SS-38443-103018-JC-069**	**SS-38443-103018-JC-070**
	Sample Date:	**10/30/2018**	**10/30/2018**	**10/30/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
Styrene	µg/kg	0.95 U	1.1 U	1.0 U
Tetrachloroethene	µg/kg	0.60 U	0.69 U	0.65 U
Toluene	µg/kg	0.64 U	0.73 U	0.69 U
trans-1,2-Dichloroethene	µg/kg	0.38 U	0.44 U	0.42 U
trans-1,3-Dichloropropene	µg/kg	0.85 U	0.98 U	0.93 U
Trichloroethene	µg/kg	0.52 U	0.60 U	0.57 U
Trichlorofluoromethane (CFC-11)	µg/kg	0.89 U	1.0 U	0.97 U
Trifluorotrichloroethane (CFC-113)	µg/kg	1.1 U	1.2 U	1.1 U
Vinyl chloride	µg/kg	0.69 U	0.79 U	0.75 U
Xylenes (total)	µg/kg	1.3 U	1.5 U	1.4 U
Semivolatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	11 U	57 U	11 U
2,4,5-Trichlorophenol	µg/kg	77 U	390 U	74 U
2,4,6-Trichlorophenol	µg/kg	71 U	360 U	69 U
2,4-Dichlorophenol	µg/kg	49 U	250 U	47 U
2,4-Dimethylphenol	µg/kg	44 U	230 U	43 U
2,4-Dinitrophenol	µg/kg	160 U	810 U	150 U
2,4-Dinitrotoluene	µg/kg	69 U	350 U	66 U
2,6-Dinitrotoluene	µg/kg	62 U	320 U	60 U
2-Chloronaphthalene	µg/kg	16 U	80 U	15 U
2-Chlorophenol	µg/kg	11 U	57 U	11 U
2-Methylnaphthalene	µg/kg	160	590	77
2-Methylphenol	µg/kg	34 U	180 U	33 U
2-Nitroaniline	µg/kg	44 U	230 U	43 U
2-Nitrophenol	µg/kg	14 U	74 U	14 U
3&4-Methylphenol	µg/kg	32 U	420 J	31 U
3,3'-Dichlorobenzidine	µg/kg	48 U	240 U	46 U
3-Nitroaniline	µg/kg	54 U	280 U	52 U
4,6-Dinitro-2-methylphenol	µg/kg	89 U	450 U	86 U
4-Bromophenyl phenyl ether	µg/kg	16 U	80 U	15 U
4-Chloro-3-methylphenol	µg/kg	50 U	260 U	48 U
4-Chloroaniline	µg/kg	33 U	170 U	32 U
4-Chlorophenyl phenyl ether	µg/kg	16 U	80 U	15 U
4-Nitroaniline	µg/kg	67 U	340 U	64 U
4-Nitrophenol	µg/kg	100 U	530 U	100 U
Acenaphthene	µg/kg	3.2 U	190	12 J
Acenaphthylene	µg/kg	5.0 J	23 U	13 J

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-68**	**SS-69**	**SS-70**
	Sample Name:	**SS-38443-103018-JC-068**	**SS-38443-103018-JC-069**	**SS-38443-103018-JC-070**
	Sample Date:	**10/30/2018**	**10/30/2018**	**10/30/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Semivolatile Organic Compounds				
Acetophenone	µg/kg	22 J	210 J	12 U
Anthracene	µg/kg	2.7 U	69 J	33
Atrazine	µg/kg	40 U	200 U	39 U
Benzaldehyde	µg/kg	26 U	130 U	25 U
Benzo(a)anthracene	µg/kg	32	46 J	130
Benzo(a)pyrene	µg/kg	27	53 U	120
Benzo(b)fluoranthene	µg/kg	36	40 J	200
Benzo(g,h,i)perylene	µg/kg	26	40 U	85
Benzo(k)fluoranthene	µg/kg	7.7 U	39 U	67
Biphenyl (1,1-Biphenyl)	µg/kg	19 U	250 J	18 U
bis(2-Chloroethoxy)methane	µg/kg	13 U	68 U	13 U
bis(2-Chloroethyl)ether	µg/kg	13 U	68 U	13 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	57 U	450	55 U
Butyl benzylphthalate (BBP)	µg/kg	24 U	120 U	41 J
Caprolactam	µg/kg	83 U	430 U	80 U
Carbazole	µg/kg	21 U	110 U	39 J
Chrysene	µg/kg	64	51 J	190
Di-n-butylphthalate (DBP)	µg/kg	24 U	140 J	24 U
Di-n-octyl phthalate (DnOP)	µg/kg	31 U	160 U	30 U
Dibenz(a,h)anthracene	µg/kg	7.7 U	39 U	28
Dibenzofuran	µg/kg	54 J	130 J	25 J
Diethyl phthalate	µg/kg	34 U	180 U	33 U
Dimethyl phthalate	µg/kg	16 U	80 U	15 U
Fluoranthene	µg/kg	43	130	270
Fluorene	µg/kg	3.0 U	330	14 J
Hexachlorobenzene	µg/kg	3.2 U	16 U	3.1 U
Hexachlorobutadiene	µg/kg	13 U	68 U	13 U
Hexachlorocyclopentadiene	µg/kg	69 U	350 U	66 U
Hexachloroethane	µg/kg	10 U	51 U	9.6 U
Indeno(1,2,3-cd)pyrene	µg/kg	17	42 U	60
Isophorone	µg/kg	13 U	68 U	13 U
N-Nitrosodi-n-propylamine	µg/kg	12 U	62 U	12 U
N-Nitrosodiphenylamine	µg/kg	13 U	68 U	13 U
Naphthalene	µg/kg	99	470	48
Nitrobenzene	µg/kg	14 U	74 U	14 U
Pentachlorophenol	µg/kg	64 U	330 UJ	62 UJ
Phenanthrene	µg/kg	160	630	220
Phenol	µg/kg	8.9 U	87 J	8.6 U
Pyrene	µg/kg	44	130	240

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-68**	**SS-69**	**SS-70**
	Sample Name:	**SS-38443-103018-JC-068**	**SS-38443-103018-JC-069**	**SS-38443-103018-JC-070**
	Sample Date:	**10/30/2018**	**10/30/2018**	**10/30/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Herbicides				
2,4,5-T	µg/kg	--	--	--
2,4,5-TP (Silvex)	µg/kg	--	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/kg	--	--	--
PCBs				
Aroclor-1016 (PCB-1016)	µg/kg	24 U	25 U	23 U
Aroclor-1221 (PCB-1221)	µg/kg	26 U	27 U	25 U
Aroclor-1232 (PCB-1232)	µg/kg	25 U	26 U	24 U
Aroclor-1242 (PCB-1242)	µg/kg	21 U	21 U	20 U
Aroclor-1248 (PCB-1248)	µg/kg	26 U	27 U	25 U
Aroclor-1254 (PCB-1254)	µg/kg	25 U	26 U	24 U
Aroclor-1260 (PCB-1260)	µg/kg	24 U	25 U	23 J
Pesticides				
4,4'-DDD	µg/kg	1.6 U	17 U	16 U
4,4'-DDE	µg/kg	1.7 U	17 U	16 U
4,4'-DDT	µg/kg	1.2 U	13 U	12 U
Aldrin	µg/kg	0.85 U	8.7 U	8.2 U
alpha-BHC	µg/kg	10	10 U	9.6 U
alpha-Chlordane	µg/kg	1.7 U	17 U	16 U
beta-BHC	µg/kg	8.1 NJ	19 U	18 U
delta-BHC	µg/kg	1.9 U	19 U	18 U
Dieldrin	µg/kg	1.2 U	12 U	12 U
Endosulfan I	µg/kg	1.3 U	13 U	13 U
Endosulfan II	µg/kg	1.6 U	17 U	16 U
Endosulfan sulfate	µg/kg	1.4 U	14 U	14 U
Endrin	µg/kg	2.1 U	21 U	20 U
Endrin aldehyde	µg/kg	1.4 U	15 U	14 U
Endrin ketone	µg/kg	0.98 U	10 U	9.4 U
gamma-BHC (lindane)	µg/kg	2.0 U	20 U	19 U
gamma-Chlordane	µg/kg	1.4 U	14 U	13 U
Heptachlor	µg/kg	1.7 U	18 U	17 U
Heptachlor epoxide	µg/kg	1.6 U	16 U	15 U
Methoxychlor	µg/kg	7.2 U	74 U	69 U
Toxaphene	µg/kg	28 U	280 U	260 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-68**	**SS-69**	**SS-70**
	Sample Name:	**SS-38443-103018-JC-068**	**SS-38443-103018-JC-069**	**SS-38443-103018-JC-070**
	Sample Date:	**10/30/2018**	**10/30/2018**	**10/30/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs)				
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
Total heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
Total hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
Total pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
Total tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Metals				
Aluminum	mg/kg	5400	1400	4500
Antimony	mg/kg	0.18 J	0.12 J	0.19 J
Arsenic	mg/kg	8.6	1.7	6.5
Barium	mg/kg	54	14	40
Beryllium	mg/kg	0.43	0.087 U	0.28
Cadmium	mg/kg	0.20	0.098 U	0.24
Calcium	mg/kg	91000	740	110000
Chromium	mg/kg	7.2	8.4	7.4
Chromium III (trivalent)	mg/kg	7.2	8.4	7.4
Chromium VI (hexavalent)	mg/kg	0.27 U	0.27 U	0.26 U
Cobalt	mg/kg	4.0	0.76	3.7

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-68**	**SS-69**	**SS-70**
	Sample Name:	**SS-38443-103018-JC-068**	**SS-38443-103018-JC-069**	**SS-38443-103018-JC-070**
	Sample Date:	**10/30/2018**	**10/30/2018**	**10/30/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Metals				
Copper	mg/kg	12	11	19
Iron	mg/kg	10000	10000	17000
Lead	mg/kg	8.1 J	8.0 J	35 J
Lead - coarse fraction	mg/kg	--	--	31
Lead - fine fraction	mg/kg	--	--	85
Lead - total (calculated by fine/coarse fraction)	mg/kg	--	--	35
Magnesium	mg/kg	39000	380	50000
Manganese	mg/kg	410	100	390
Mercury	mg/kg	0.023 U	0.022 U	0.19
Nickel	mg/kg	10	10	12
Potassium	mg/kg	660	51 U	710
Selenium	mg/kg	0.26 J	0.11 U	0.17 J
Silver	mg/kg	0.026 J	0.024 J	0.042 J
Sodium	mg/kg	120 J	47 U	130 J
Thallium	mg/kg	0.15 J	0.044 U	0.13 J
Vanadium	mg/kg	13	1.6	33
Zinc	mg/kg	35 J	15 J	52 J
General Chemistry				
Cyanide (total)	mg/kg	0.21 U	0.22 U	0.18 U
Soot carbon	mg/kg	--	--	--
Total organic carbon (TOC)	mg/kg	--	--	--

Notes:

R - Rejected
J - Estimated concentration
U - Not detected at the associated reporting limit
-- - Not applicable
UJ - Not detected; associated reporting limit is detected
PCBs - Polychlorinated Biphenyls

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-71**	**SS-72**	**SS-73**
	Sample Name:	**SS-38443-103018-JC-071**	**SS-38443-103018-JC-072**	**SS-38443-103018-JC-073**
	Sample Date:	**10/30/2018**	**10/30/2018**	**10/30/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/kg	0.85 U	0.76 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/kg	1.5 U	1.3 U	1.8 U
1,1,2-Trichloroethane	µg/kg	1.2 U	1.1 U	1.4 U
1,1-Dichloroethane	µg/kg	0.72 U	0.65 U	0.87 U
1,1-Dichloroethene	µg/kg	0.94 U	0.84 U	1.1 U
1,2,4-Trichlorobenzene	µg/kg	0.59 U	0.53 U	0.72 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	3.7 U	3.4 U	4.5 U
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	0.80 U	0.72 U	0.97 U
1,2-Dichlorobenzene	µg/kg	1.2 U	1.0 U	1.4 U
1,2-Dichloroethane	µg/kg	0.80 U	0.72 U	0.97 U
1,2-Dichloropropane	µg/kg	0.88 U	0.79 U	1.1 U
1,3-Dichlorobenzene	µg/kg	0.85 U	0.76 U	1.0 U
1,4-Dichlorobenzene	µg/kg	0.92 U	0.82 U	1.1 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	4.4 J	12 J	5.1 J
2-Hexanone	µg/kg	4.2 U	3.8 U	5.1 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	3.9 U	3.5 U	4.7 U
Acetone	µg/kg	53	57	60
Benzene	µg/kg	0.73 U	0.65 U	0.88 U
Bromodichloromethane	µg/kg	0.71 U	0.63 U	0.85 U
Bromoform	µg/kg	2.5 U	2.2 U	3.0 U
Bromomethane (Methyl bromide)	µg/kg	1.0 U	0.92 U	1.2 U
Carbon disulfide	µg/kg	1.2 U	1.1 U	1.5 U
Carbon tetrachloride	µg/kg	3.4 U	3.0 U	4.1 U
Chlorobenzene	µg/kg	0.95 U	0.85 U	1.2 U
Chloroethane	µg/kg	1.3 U	1.1 U	1.5 U
Chloroform (Trichloromethane)	µg/kg	0.82 U	0.73 U	0.99 U
Chloromethane (Methyl chloride)	µg/kg	1.1 U	0.97 U	1.3 U
cis-1,2-Dichloroethene	µg/kg	0.68 U	1.6 J	0.82 U
cis-1,3-Dichloropropene	µg/kg	1.5 U	1.3 U	1.8 U
Cyclohexane	µg/kg	1.4 U	1.3 U	1.7 U
Dibromochloromethane	µg/kg	2.9 U	2.6 U	3.5 U
Dichlorodifluoromethane (CFC-12)	µg/kg	0.98 U	0.88 U	1.2 U
Ethylbenzene	µg/kg	1.1 U	0.98 U	1.3 U
Isopropyl benzene	µg/kg	0.86 U	0.78 U	1.0 U
Methyl acetate	µg/kg	3.5 U	3.2 U	4.3 U
Methyl cyclohexane	µg/kg	1.3 U	1.1 U	1.5 U
Methyl tert butyl ether (MTBE)	µg/kg	0.85 U	0.76 U	1.0 U
Methylene chloride	µg/kg	12 U	11 U	15 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-71**	**SS-72**	**SS-73**
	Sample Name:	**SS-38443-103018-JC-071**	**SS-38443-103018-JC-072**	**SS-38443-103018-JC-073**
	Sample Date:	**10/30/2018**	**10/30/2018**	**10/30/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
Styrene	µg/kg	1.2 U	1.1 U	1.5 U
Tetrachloroethene	µg/kg	0.76 U	0.68 U	0.92 U
Toluene	µg/kg	0.80 U	0.72 U	0.97 U
trans-1,2-Dichloroethene	µg/kg	0.48 U	0.43 U	0.59 U
trans-1,3-Dichloropropene	µg/kg	1.1 U	0.96 U	1.3 U
Trichloroethene	µg/kg	1.7 J	0.59 U	1.7 J
Trichlorofluoromethane (CFC-11)	µg/kg	1.1 U	1.0 U	1.4 U
Trifluorotrichloroethane (CFC-113)	µg/kg	1.3 U	1.2 U	1.6 U
Vinyl chloride	µg/kg	0.87 U	0.78 U	1.1 U
Xylenes (total)	µg/kg	1.6 U	1.5 U	2.0 U
Semivolatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	11 U	11 U	11 U
2,4,5-Trichlorophenol	µg/kg	76 U	75 U	78 U
2,4,6-Trichlorophenol	µg/kg	70 U	69 U	73 U
2,4-Dichlorophenol	µg/kg	48 U	48 U	50 U
2,4-Dimethylphenol	µg/kg	44 U	43 U	45 U
2,4-Dinitrophenol	µg/kg	160 U	150 U	160 U
2,4-Dinitrotoluene	µg/kg	68 U	67 U	70 U
2,6-Dinitrotoluene	µg/kg	61 U	61 U	64 U
2-Chloronaphthalene	µg/kg	15 U	15 U	16 U
2-Chlorophenol	µg/kg	11 U	11 U	11 U
2-Methylnaphthalene	µg/kg	15 J	47	610
2-Methylphenol	µg/kg	34 U	34 U	35 U
2-Nitroaniline	µg/kg	44 U	43 U	45 U
2-Nitrophenol	µg/kg	14 U	14 U	15 U
3&4-Methylphenol	µg/kg	32 U	31 U	33 U
3,3'-Dichlorobenzidine	µg/kg	47 U	47 U	49 U
3-Nitroaniline	µg/kg	54 U	53 U	56 U
4,6-Dinitro-2-methylphenol	µg/kg	88 U	87 U	91 U
4-Bromophenyl phenyl ether	µg/kg	15 U	15 U	16 U
4-Chloro-3-methylphenol	µg/kg	49 U	49 U	51 U
4-Chloroaniline	µg/kg	33 U	33 U	34 U
4-Chlorophenyl phenyl ether	µg/kg	15 U	15 U	16 U
4-Nitroaniline	µg/kg	66 U	65 U	68 U
4-Nitrophenol	µg/kg	100 U	100 U	110 U
Acenaphthene	µg/kg	3.1 U	17	17
Acenaphthylene	µg/kg	46	120	64

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-71**	**SS-72**	**SS-73**
	Sample Name:	**SS-38443-103018-JC-071**	**SS-38443-103018-JC-072**	**SS-38443-103018-JC-073**
	Sample Date:	**10/30/2018**	**10/30/2018**	**10/30/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Semivolatile Organic Compounds				
Acetophenone	µg/kg	12 U	12 U	53 J
Anthracene	µg/kg	14 J	78	50
Atrazine	µg/kg	39 U	39 U	41 U
Benzaldehyde	µg/kg	25 U	25 U	55 J
Benzo(a)anthracene	µg/kg	61	400	410
Benzo(a)pyrene	µg/kg	80	380	410
Benzo(b)fluoranthene	µg/kg	100	580	570
Benzo(g,h,i)perylene	µg/kg	100	190	210
Benzo(k)fluoranthene	µg/kg	28	190	220
Biphenyl (1,1-Biphenyl)	µg/kg	19 U	18 U	56 J
bis(2-Chloroethoxy)methane	µg/kg	13 U	13 U	14 U
bis(2-Chloroethyl)ether	µg/kg	13 U	13 U	14 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	56 U	55 U	58 U
Butyl benzylphthalate (BBP)	µg/kg	24 U	24 U	25 U
Caprolactam	µg/kg	82 U	81 U	85 U
Carbazole	µg/kg	25 J	62	46 J
Chrysene	µg/kg	74	490	510
Di-n-butylphthalate (DBP)	µg/kg	24 U	27 J	25 U
Di-n-octyl phthalate (DnOP)	µg/kg	31 U	30 U	32 U
Dibenz(a,h)anthracene	µg/kg	19	57	74
Dibenzofuran	µg/kg	14 U	20 J	150
Diethyl phthalate	µg/kg	34 U	34 U	35 U
Dimethyl phthalate	µg/kg	15 U	15 U	16 U
Fluoranthene	µg/kg	62	740	400
Fluorene	µg/kg	3.8 J	42	23
Hexachlorobenzene	µg/kg	3.1 U	3.1 U	3.2 U
Hexachlorobutadiene	µg/kg	13 U	13 U	14 U
Hexachlorocyclopentadiene	µg/kg	68 U	67 U	70 U
Hexachloroethane	µg/kg	9.9 U	9.8 U	10 U
Indeno(1,2,3-cd)pyrene	µg/kg	55	160	190
Isophorone	µg/kg	13 U	13 U	14 U
N-Nitrosodi-n-propylamine	µg/kg	12 U	12 U	13 U
N-Nitrosodiphenylamine	µg/kg	13 U	13 U	14 U
Naphthalene	µg/kg	11 J	44	400
Nitrobenzene	µg/kg	14 U	14 U	15 U
Pentachlorophenol	µg/kg	64 UJ	63 UJ	66 UJ
Phenanthrene	µg/kg	34	400	440
Phenol	µg/kg	8.8 U	8.7 U	9.1 U
Pyrene	µg/kg	90	760	460

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-71**	**SS-72**	**SS-73**
	Sample Name:	**SS-38443-103018-JC-071**	**SS-38443-103018-JC-072**	**SS-38443-103018-JC-073**
	Sample Date:	**10/30/2018**	**10/30/2018**	**10/30/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Herbicides				
2,4,5-T	µg/kg	--	--	--
2,4,5-TP (Silvex)	µg/kg	--	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/kg	--	--	--
PCBs				
Aroclor-1016 (PCB-1016)	µg/kg	24 U	24 U	24 U
Aroclor-1221 (PCB-1221)	µg/kg	26 U	26 U	27 U
Aroclor-1232 (PCB-1232)	µg/kg	25 U	25 U	25 U
Aroclor-1242 (PCB-1242)	µg/kg	20 U	20 U	21 U
Aroclor-1248 (PCB-1248)	µg/kg	26 U	26 U	27 U
Aroclor-1254 (PCB-1254)	µg/kg	25 U	96	25 U
Aroclor-1260 (PCB-1260)	µg/kg	36 J	24 U	24 U
Pesticides				
4,4'-DDD	µg/kg	16 U	16 U	16 U
4,4'-DDE	µg/kg	16 U	16 U	17 U
4,4'-DDT	µg/kg	12 U	12 U	13 U
Aldrin	µg/kg	8.3 U	8.3 U	8.5 U
alpha-BHC	µg/kg	9.8 U	9.8 U	10 U
alpha-Chlordane	µg/kg	16 U	16 U	17 U
beta-BHC	µg/kg	19 U	19 U	19 U
delta-BHC	µg/kg	18 U	91 U	19 U
Dieldrin	µg/kg	12 U	12 U	12 U
Endosulfan I	µg/kg	13 U	13 U	13 U
Endosulfan II	µg/kg	16 U	16 U	16 U
Endosulfan sulfate	µg/kg	14 U	14 U	14 U
Endrin	µg/kg	20 U	20 U	21 U
Endrin aldehyde	µg/kg	14 U	14 U	15 U
Endrin ketone	µg/kg	9.6 U	9.6 U	9.9 U
gamma-BHC (lindane)	µg/kg	19 U	19 U	20 U
gamma-Chlordane	µg/kg	13 U	13 U	14 U
Heptachlor	µg/kg	17 U	17 U	17 U
Heptachlor epoxide	µg/kg	15 U	15 U	16 U
Methoxychlor	µg/kg	71 U	70 U	73 U
Toxaphene	µg/kg	270 U	270 U	280 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-71**	**SS-72**	**SS-73**
	Sample Name:	**SS-38443-103018-JC-071**	**SS-38443-103018-JC-072**	**SS-38443-103018-JC-073**
	Sample Date:	**10/30/2018**	**10/30/2018**	**10/30/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs)				
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
Total heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
Total hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
Total pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
Total tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Metals				
Aluminum	mg/kg	9000	4200	4100
Antimony	mg/kg	0.27 J	0.25 J	0.19 J
Arsenic	mg/kg	13	6.1	5.2
Barium	mg/kg	79	85	54
Beryllium	mg/kg	0.49	0.40	0.37
Cadmium	mg/kg	0.71	0.35	1.0
Calcium	mg/kg	63000	100000 J	150000
Chromium	mg/kg	13	7.7	7.2
Chromium III (trivalent)	mg/kg	13	7.7	7.2
Chromium VI (hexavalent)	mg/kg	0.27 U	0.26 U	0.28 U
Cobalt	mg/kg	5.4	3.5	3.5

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-71**	**SS-72**	**SS-73**
	Sample Name:	**SS-38443-103018-JC-071**	**SS-38443-103018-JC-072**	**SS-38443-103018-JC-073**
	Sample Date:	**10/30/2018**	**10/30/2018**	**10/30/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Metals				
Copper	mg/kg	16	38	11
Iron	mg/kg	14000	8900	8200
Lead	mg/kg	17 J	160	19 J
Lead - coarse fraction	mg/kg	--	82	--
Lead - fine fraction	mg/kg	--	150	--
Lead - total (calculated by fine/coarse fraction)	mg/kg	--	89	--
Magnesium	mg/kg	32000	39000 J	83000
Manganese	mg/kg	480	330	280
Mercury	mg/kg	0.023 J	0.056 J	0.037 J
Nickel	mg/kg	12	11	7.6
Potassium	mg/kg	900	600	660
Selenium	mg/kg	0.36 J	0.30 J	0.20 J
Silver	mg/kg	0.039 J	0.059 J	0.044 J
Sodium	mg/kg	170 J	320	240
Thallium	mg/kg	0.16 J	0.12 J	0.13 J
Vanadium	mg/kg	23	13	12
Zinc	mg/kg	74 J	100 J	38 J
General Chemistry				
Cyanide (total)	mg/kg	0.20 U	0.22 U	0.21 J
Soot carbon	mg/kg	--	--	--
Total organic carbon (TOC)	mg/kg	--	--	--

Notes:

R - Rejected
J - Estimated concentration
U - Not detected at the associated reporting limit
-- - Not applicable
UJ - Not detected; associated reporting limit is detected
PCBs - Polychlorinated Biphenyls

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-74**	**SS-75**	**SS-76**
	Sample Name:	**SS-38443-103018-JC-074**	**SS-38443-103018-JC-075**	**SS-38443-103018-JC-076**
	Sample Date:	**10/30/2018**	**10/30/2018**	**10/30/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/kg	0.78 U	0.89 U	0.96 U
1,1,2,2-Tetrachloroethane	µg/kg	1.4 U	1.6 U	R
1,1,2-Trichloroethane	µg/kg	1.1 U	1.2 U	1.3 U
1,1-Dichloroethane	µg/kg	0.66 U	0.76 U	0.81 U
1,1-Dichloroethene	µg/kg	0.86 U	0.99 U	1.1 U
1,2,4-Trichlorobenzene	µg/kg	0.55 U	0.62 U	R
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	3.4 U	3.9 U	R
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	0.73 U	0.84 U	0.90 U
1,2-Dichlorobenzene	µg/kg	1.1 U	1.2 U	R
1,2-Dichloroethane	µg/kg	0.74 U	0.84 U	0.90 U
1,2-Dichloropropane	µg/kg	0.81 U	0.93 U	0.99 U
1,3-Dichlorobenzene	µg/kg	0.78 U	0.89 U	R
1,4-Dichlorobenzene	µg/kg	0.84 U	0.96 U	R
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	3.4 U	4.2 J	4.2 U
2-Hexanone	µg/kg	3.9 U	4.5 U	4.8 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	3.5 U	4.1 U	4.3 U
Acetone	µg/kg	20 U	25 J	25 U
Benzene	µg/kg	0.67 U	0.76 U	0.82 U
Bromodichloromethane	µg/kg	0.65 U	0.74 U	0.79 U
Bromoform	µg/kg	2.3 U	2.6 U	2.8 U
Bromomethane (Methyl bromide)	µg/kg	0.94 U	1.1 U	1.2 U
Carbon disulfide	µg/kg	1.1 U	1.3 U	1.4 U
Carbon tetrachloride	µg/kg	3.1 U	3.6 U	3.8 U
Chlorobenzene	µg/kg	0.87 U	1.0 U	1.1 U
Chloroethane	µg/kg	1.2 U	1.3 U	1.4 U
Chloroform (Trichloromethane)	µg/kg	0.75 U	0.86 U	0.92 U
Chloromethane (Methyl chloride)	µg/kg	0.99 U	1.1 U	1.2 U
cis-1,2-Dichloroethene	µg/kg	0.62 U	0.71 U	1.2 U
cis-1,3-Dichloropropene	µg/kg	1.4 U	1.6 U	1.7 U
Cyclohexane	µg/kg	1.3 U	1.5 U	1.6 U
Dibromochloromethane	µg/kg	2.7 U	3.0 U	3.2 U
Dichlorodifluoromethane (CFC-12)	µg/kg	0.90 U	1.0 U	1.1 U
Ethylbenzene	µg/kg	1.0 U	1.1 U	1.2 U
Isopropyl benzene	µg/kg	0.79 U	0.91 U	0.97 U
Methyl acetate	µg/kg	3.2 U	3.7 U	4.0 U
Methyl cyclohexane	µg/kg	1.2 U	1.3 U	1.4 U
Methyl tert butyl ether (MTBE)	µg/kg	0.78 U	0.89 U	0.96 U
Methylene chloride	µg/kg	11 U	13 U	14 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-74**	**SS-75**	**SS-76**
	Sample Name:	**SS-38443-103018-JC-074**	**SS-38443-103018-JC-075**	**SS-38443-103018-JC-076**
	Sample Date:	**10/30/2018**	**10/30/2018**	**10/30/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
Styrene	µg/kg	1.1 U	1.3 U	1.4 U
Tetrachloroethene	µg/kg	0.70 U	0.80 U	0.85 U
Toluene	µg/kg	0.74 U	0.84 U	0.90 U
trans-1,2-Dichloroethene	µg/kg	0.44 U	0.51 U	0.54 U
trans-1,3-Dichloropropene	µg/kg	0.99 U	1.1 U	1.2 U
Trichloroethene	µg/kg	0.60 U	0.69 U	1.1 J
Trichlorofluoromethane (CFC-11)	µg/kg	1.0 U	1.2 U	1.3 U
Trifluorotrichloroethane (CFC-113)	µg/kg	1.2 U	1.4 U	1.5 U
Vinyl chloride	µg/kg	0.80 U	0.91 U	0.98 U
Xylenes (total)	µg/kg	1.5 U	1.7 U	1.9 U
Semivolatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	21 U	11 U	12 U
2,4,5-Trichlorophenol	µg/kg	150 U	79 U	80 U
2,4,6-Trichlorophenol	µg/kg	140 U	74 U	74 U
2,4-Dichlorophenol	µg/kg	93 U	51 U	51 U
2,4-Dimethylphenol	µg/kg	85 U	46 U	46 U
2,4-Dinitrophenol	µg/kg	300 U	160 U	170 U
2,4-Dinitrotoluene	µg/kg	130 U	71 U	72 U
2,6-Dinitrotoluene	µg/kg	120 U	64 U	65 U
2-Chloronaphthalene	µg/kg	30 U	16 U	16 U
2-Chlorophenol	µg/kg	21 U	11 U	12 U
2-Methylnaphthalene	µg/kg	44	74	72
2-Methylphenol	µg/kg	66 U	36 U	36 U
2-Nitroaniline	µg/kg	85 U	46 U	46 U
2-Nitrophenol	µg/kg	28 U	15 U	15 U
3&4-Methylphenol	µg/kg	61 U	33 U	34 U
3,3'-Dichlorobenzidine	µg/kg	91 U	49 U	50 U
3-Nitroaniline	µg/kg	100 U	56 U	57 U
4,6-Dinitro-2-methylphenol	µg/kg	170 U	92 U	93 U
4-Bromophenyl phenyl ether	µg/kg	30 U	16 U	16 U
4-Chloro-3-methylphenol	µg/kg	95 U	52 U	52 U
4-Chloroaniline	µg/kg	64 U	34 U	35 U
4-Chlorophenyl phenyl ether	µg/kg	30 U	16 U	16 U
4-Nitroaniline	µg/kg	130 U	69 U	70 U
4-Nitrophenol	µg/kg	200 U	110 U	110 U
Acenaphthene	µg/kg	48	36	3.3 U
Acenaphthylene	µg/kg	21 J	56	4.7 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-74**	**SS-75**	**SS-76**
	Sample Name:	**SS-38443-103018-JC-074**	**SS-38443-103018-JC-075**	**SS-38443-103018-JC-076**
	Sample Date:	**10/30/2018**	**10/30/2018**	**10/30/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Semivolatile Organic Compounds				
Acetophenone	µg/kg	23 U	13 U	13 U
Anthracene	µg/kg	200	180	2.8 U
Atrazine	µg/kg	76 U	41 U	42 U
Benzaldehyde	µg/kg	49 U	26 U	27 U
Benzo(a)anthracene	µg/kg	1200	470	11 J
Benzo(a)pyrene	µg/kg	1400	440	11 U
Benzo(b)fluoranthene	µg/kg	2000	550	14 J
Benzo(g,h,i)perylene	µg/kg	940	200	8.5 J
Benzo(k)fluoranthene	µg/kg	640	230	8.1 U
Biphenyl (1,1-Biphenyl)	µg/kg	36 U	20 U	20 U
bis(2-Chloroethoxy)methane	µg/kg	25 U	14 U	14 U
bis(2-Chloroethyl)ether	µg/kg	25 U	14 U	14 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	110 U	69 J	59 U
Butyl benzylphthalate (BBP)	µg/kg	47 U	25 U	26 U
Caprolactam	µg/kg	160 U	86 U	87 U
Carbazole	µg/kg	120	83	22 U
Chrysene	µg/kg	1300	480	17
Di-n-butylphthalate (DBP)	µg/kg	47 U	25 U	26 U
Di-n-octyl phthalate (DnOP)	µg/kg	59 U	32 U	33 U
Dibenz(a,h)anthracene	µg/kg	220	61	8.0 U
Dibenzofuran	µg/kg	49 J	54 J	24 J
Diethyl phthalate	µg/kg	66 U	36 U	36 U
Dimethyl phthalate	µg/kg	30 U	16 U	16 U
Fluoranthene	µg/kg	2000	830	16 J
Fluorene	µg/kg	56	85	3.2 U
Hexachlorobenzene	µg/kg	6.0 U	3.3 U	3.3 U
Hexachlorobutadiene	µg/kg	25 U	14 U	14 U
Hexachlorocyclopentadiene	µg/kg	130 U	71 U	72 U
Hexachloroethane	µg/kg	19 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	µg/kg	910	190	8.6 U
Isophorone	µg/kg	25 U	14 U	14 U
N-Nitrosodi-n-propylamine	µg/kg	23 U	13 U	13 U
N-Nitrosodiphenylamine	µg/kg	25 U	14 U	14 U
Naphthalene	µg/kg	33	50	41
Nitrobenzene	µg/kg	28 U	15 U	15 U
Pentachlorophenol	µg/kg	120 UJ	67 UJ	67 UJ
Phenanthrene	µg/kg	900	600	60
Phenol	µg/kg	17 U	9.2 U	9.3 U
Pyrene	µg/kg	1800	860	19

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-74**	**SS-75**	**SS-76**
	Sample Name:	**SS-38443-103018-JC-074**	**SS-38443-103018-JC-075**	**SS-38443-103018-JC-076**
	Sample Date:	**10/30/2018**	**10/30/2018**	**10/30/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Herbicides				
2,4,5-T	µg/kg	--	--	--
2,4,5-TP (Silvex)	µg/kg	--	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/kg	--	--	--
PCBs				
Aroclor-1016 (PCB-1016)	µg/kg	23 U	25 U	25 U
Aroclor-1221 (PCB-1221)	µg/kg	25 U	27 U	27 U
Aroclor-1232 (PCB-1232)	µg/kg	24 U	26 U	26 U
Aroclor-1242 (PCB-1242)	µg/kg	20 U	21 U	22 U
Aroclor-1248 (PCB-1248)	µg/kg	25 U	27 U	27 U
Aroclor-1254 (PCB-1254)	µg/kg	140	910	26 U
Aroclor-1260 (PCB-1260)	µg/kg	23 U	25 U	25 U
Pesticides				
4,4'-DDD	µg/kg	15 U	17 U	17 U
4,4'-DDE	µg/kg	16 U	17 U	17 U
4,4'-DDT	µg/kg	12 U	13 U	13 U
Aldrin	µg/kg	8.0 U	8.6 U	8.7 U
alpha-BHC	µg/kg	9.4 U	10 U	10 U
alpha-Chlordane	µg/kg	16 U	17 U	17 U
beta-BHC	µg/kg	18 U	19 U	20 U
delta-BHC	µg/kg	17 U	19 U	19 U
Dieldrin	µg/kg	11 U	12 U	12 U
Endosulfan I	µg/kg	12 U	13 U	14 U
Endosulfan II	µg/kg	15 U	17 U	17 U
Endosulfan sulfate	µg/kg	13 U	14 U	15 U
Endrin	µg/kg	20 U	21 U	22 U
Endrin aldehyde	µg/kg	14 U	15 U	15 U
Endrin ketone	µg/kg	9.2 U	10 U	10 U
gamma-BHC (lindane)	µg/kg	19 U	20 U	20 U
gamma-Chlordane	µg/kg	13 U	14 U	14 U
Heptachlor	µg/kg	16 U	18 U	18 U
Heptachlor epoxide	µg/kg	15 U	16 U	16 U
Methoxychlor	µg/kg	68 U	73 U	74 U
Toxaphene	µg/kg	260 U	280 U	280 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-74**	**SS-75**	**SS-76**
	Sample Name:	**SS-38443-103018-JC-074**	**SS-38443-103018-JC-075**	**SS-38443-103018-JC-076**
	Sample Date:	**10/30/2018**	**10/30/2018**	**10/30/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs)				
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
Total heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
Total hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
Total pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
Total tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Metals				
Aluminum	mg/kg	3300	11000	4500
Antimony	mg/kg	0.39 J	2.4 J	0.23 J
Arsenic	mg/kg	7.1	11	8.1
Barium	mg/kg	60	99	240
Beryllium	mg/kg	0.23	1.1	0.62
Cadmium	mg/kg	1.0	0.21	0.61
Calcium	mg/kg	99000	36000 J	28000
Chromium	mg/kg	24	15	12
Chromium III (trivalent)	mg/kg	24	15	12
Chromium VI (hexavalent)	mg/kg	0.26 U	1.4 U	0.60 J
Cobalt	mg/kg	3.8	6.9	6.2

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-74**	**SS-75**	**SS-76**
	Sample Name:	**SS-38443-103018-JC-074**	**SS-38443-103018-JC-075**	**SS-38443-103018-JC-076**
	Sample Date:	**10/30/2018**	**10/30/2018**	**10/30/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Metals				
Copper	mg/kg	39	85	25
Iron	mg/kg	20000	25000	12000
Lead	mg/kg	41 J	71	51 J
Lead - coarse fraction	mg/kg	--	--	--
Lead - fine fraction	mg/kg	--	--	--
Lead - total (calculated by fine/coarse fraction)	mg/kg	--	--	--
Magnesium	mg/kg	32000	15000 J	12000
Manganese	mg/kg	390	290	550
Mercury	mg/kg	0.15	0.85	0.18
Nickel	mg/kg	20	19	17
Potassium	mg/kg	480	1300	700
Selenium	mg/kg	0.19 J	0.50 J	0.45 J
Silver	mg/kg	0.11 J	0.097 J	0.078 J
Sodium	mg/kg	120 J	590	78 J
Thallium	mg/kg	0.095 U	0.24	0.17 J
Vanadium	mg/kg	15	28	16
Zinc	mg/kg	88 J	100 J	93 J
General Chemistry				
Cyanide (total)	mg/kg	0.20 U	0.27 J	0.22 J
Soot carbon	mg/kg	--	--	--
Total organic carbon (TOC)	mg/kg	--	--	--

Notes:

R - Rejected
J - Estimated concentration
U - Not detected at the associated reporting limit
-- - Not applicable
UJ - Not detected; associated reporting limit is detected
PCBs - Polychlorinated Biphenyls

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-77**	**SS-78**	**SS-79**
	Sample Name:	**SS-38443-103018-JC-077**	**SS-38443-103118-JC-078**	**SS-38443-103118-JC-079**
	Sample Date:	**10/30/2018**	**10/31/2018**	**10/31/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/kg	--	0.74 U	0.82 U
1,1,2,2-Tetrachloroethane	µg/kg	--	1.3 U	1.4 U
1,1,2-Trichloroethane	µg/kg	--	1.0 U	1.1 U
1,1-Dichloroethane	µg/kg	--	0.63 U	0.69 U
1,1-Dichloroethene	µg/kg	--	0.82 U	0.90 U
1,2,4-Trichlorobenzene	µg/kg	--	0.52 U	0.57 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	--	3.3 U	3.6 U
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	--	0.70 U	0.77 U
1,2-Dichlorobenzene	µg/kg	--	1.0 U	1.1 U
1,2-Dichloroethane	µg/kg	--	0.70 U	0.77 U
1,2-Dichloropropane	µg/kg	--	0.77 U	0.85 U
1,3-Dichlorobenzene	µg/kg	--	0.74 U	0.81 U
1,4-Dichlorobenzene	µg/kg	--	0.80 U	0.88 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	--	15 J	3.5 U
2-Hexanone	µg/kg	--	3.7 U	4.1 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	--	3.4 U	3.7 U
Acetone	µg/kg	--	68	21 U
Benzene	µg/kg	--	0.63 U	0.70 U
Bromodichloromethane	µg/kg	--	0.61 U	0.68 U
Bromoform	µg/kg	--	2.2 U	2.4 U
Bromomethane (Methyl bromide)	µg/kg	--	0.89 U	0.99 U
Carbon disulfide	µg/kg	--	1.1 U	1.2 U
Carbon tetrachloride	µg/kg	--	2.9 U	3.2 U
Chlorobenzene	µg/kg	--	0.83 U	0.91 U
Chloroethane	µg/kg	--	1.1 U	1.2 U
Chloroform (Trichloromethane)	µg/kg	--	0.71 U	0.79 U
Chloromethane (Methyl chloride)	µg/kg	--	0.94 U	1.0 U
cis-1,2-Dichloroethene	µg/kg	--	0.59 U	0.65 U
cis-1,3-Dichloropropene	µg/kg	--	1.3 U	1.4 U
Cyclohexane	µg/kg	--	1.2 U	1.4 U
Dibromochloromethane	µg/kg	--	2.5 U	2.8 U
Dichlorodifluoromethane (CFC-12)	µg/kg	--	0.85 UJ	0.94 U
Ethylbenzene	µg/kg	--	0.95 U	1.0 U
Isopropyl benzene	µg/kg	--	0.75 U	0.83 U
Methyl acetate	µg/kg	--	3.1 UJ	3.4 U
Methyl cyclohexane	µg/kg	--	1.1 U	1.2 U
Methyl tert butyl ether (MTBE)	µg/kg	--	0.74 U	0.82 U
Methylene chloride	µg/kg	--	11 U	12 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-77**	**SS-78**	**SS-79**
	Sample Name:	**SS-38443-103018-JC-077**	**SS-38443-103118-JC-078**	**SS-38443-103118-JC-079**
	Sample Date:	**10/30/2018**	**10/31/2018**	**10/31/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
Styrene	µg/kg	--	1.0 U	1.2 U
Tetrachloroethene	µg/kg	--	0.66 U	0.73 U
Toluene	µg/kg	--	0.70 U	0.77 U
trans-1,2-Dichloroethene	µg/kg	--	0.42 U	0.46 U
trans-1,3-Dichloropropene	µg/kg	--	0.93 U	1.0 U
Trichloroethene	µg/kg	--	0.57 U	0.63 U
Trichlorofluoromethane (CFC-11)	µg/kg	--	0.97 U	1.1 U
Trifluorotrichloroethane (CFC-113)	µg/kg	--	1.2 U	1.3 U
Vinyl chloride	µg/kg	--	0.76 U	0.84 U
Xylenes (total)	µg/kg	--	1.4 U	1.6 U
Semivolatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	--	11 U	12 U
2,4,5-Trichlorophenol	µg/kg	--	78 U	85 U
2,4,6-Trichlorophenol	µg/kg	--	73 U	79 U
2,4-Dichlorophenol	µg/kg	--	50 U	54 U
2,4-Dimethylphenol	µg/kg	--	45 U	49 U
2,4-Dinitrophenol	µg/kg	--	160 U	170 U
2,4-Dinitrotoluene	µg/kg	--	70 U	76 U
2,6-Dinitrotoluene	µg/kg	--	64 U	69 U
2-Chloronaphthalene	µg/kg	--	16 U	17 U
2-Chlorophenol	µg/kg	--	11 U	12 U
2-Methylnaphthalene	µg/kg	--	460	710
2-Methylphenol	µg/kg	--	35 U	84 J
2-Nitroaniline	µg/kg	--	45 U	49 U
2-Nitrophenol	µg/kg	--	15 U	16 U
3&4-Methylphenol	µg/kg	--	33 U	210 J
3,3'-Dichlorobenzidine	µg/kg	--	49 U	53 U
3-Nitroaniline	µg/kg	--	56 U	60 U
4,6-Dinitro-2-methylphenol	µg/kg	--	91 U	98 U
4-Bromophenyl phenyl ether	µg/kg	--	16 U	17 U
4-Chloro-3-methylphenol	µg/kg	--	51 U	55 U
4-Chloroaniline	µg/kg	--	34 U	37 U
4-Chlorophenyl phenyl ether	µg/kg	--	16 U	17 U
4-Nitroaniline	µg/kg	--	68 U	74 U
4-Nitrophenol	µg/kg	--	110 U	120 U
Acenaphthene	µg/kg	--	31	3.5 U
Acenaphthylene	µg/kg	--	51	28

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-77**	**SS-78**	**SS-79**
	Sample Name:	**SS-38443-103018-JC-077**	**SS-38443-103118-JC-078**	**SS-38443-103118-JC-079**
	Sample Date:	**10/30/2018**	**10/31/2018**	**10/31/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Semivolatile Organic Compounds				
Acetophenone	µg/kg	--	12 U	79 J
Anthracene	µg/kg	--	65	110
Atrazine	µg/kg	--	41 U	44 U
Benzaldehyde	µg/kg	--	26 U	110 J
Benzo(a)anthracene	µg/kg	--	200	520
Benzo(a)pyrene	µg/kg	--	180	270
Benzo(b)fluoranthene	µg/kg	--	270	520
Benzo(g,h,i)perylene	µg/kg	--	150	300
Benzo(k)fluoranthene	µg/kg	--	53	110
Biphenyl (1,1-Biphenyl)	µg/kg	--	26 J	110
bis(2-Chloroethoxy)methane	µg/kg	--	14 U	15 U
bis(2-Chloroethyl)ether	µg/kg	--	14 U	15 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	--	58 U	63 U
Butyl benzylphthalate (BBP)	µg/kg	--	25 U	27 U
Caprolactam	µg/kg	--	85 U	92 U
Carbazole	µg/kg	--	33 J	23 U
Chrysene	µg/kg	--	210	790
Di-n-butylphthalate (DBP)	µg/kg	--	25 U	27 U
Di-n-octyl phthalate (DnOP)	µg/kg	--	32 U	34 U
Dibenz(a,h)anthracene	µg/kg	--	34	88
Dibenzofuran	µg/kg	--	88	270
Diethyl phthalate	µg/kg	--	35 U	38 U
Dimethyl phthalate	µg/kg	--	16 U	17 U
Fluoranthene	µg/kg	--	370	310
Fluorene	µg/kg	--	42	3.4 U
Hexachlorobenzene	µg/kg	--	3.2 U	3.5 U
Hexachlorobutadiene	µg/kg	--	14 U	15 U
Hexachlorocyclopentadiene	µg/kg	--	70 U	76 U
Hexachloroethane	µg/kg	--	10 U	11 U
Indeno(1,2,3-cd)pyrene	µg/kg	--	120	160
Isophorone	µg/kg	--	14 U	15 U
N-Nitrosodi-n-propylamine	µg/kg	--	12 U	14 U
N-Nitrosodiphenylamine	µg/kg	--	14 U	15 U
Naphthalene	µg/kg	--	190	390
Nitrobenzene	µg/kg	--	15 U	16 U
Pentachlorophenol	µg/kg	--	66 U	71 U
Phenanthrene	µg/kg	--	280	1000
Phenol	µg/kg	--	9.1 U	180
Pyrene	µg/kg	--	320	320

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-77**	**SS-78**	**SS-79**
	Sample Name:	**SS-38443-103018-JC-077**	**SS-38443-103118-JC-078**	**SS-38443-103118-JC-079**
	Sample Date:	**10/30/2018**	**10/31/2018**	**10/31/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Herbicides				
2,4,5-T	µg/kg	16 U	--	--
2,4,5-TP (Silvex)	µg/kg	17 U	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/kg	61 U	--	--
PCBs				
Aroclor-1016 (PCB-1016)	µg/kg	--	25 U	27 U
Aroclor-1221 (PCB-1221)	µg/kg	--	27 U	29 U
Aroclor-1232 (PCB-1232)	µg/kg	--	26 U	28 U
Aroclor-1242 (PCB-1242)	µg/kg	--	21 U	23 U
Aroclor-1248 (PCB-1248)	µg/kg	--	27 U	29 U
Aroclor-1254 (PCB-1254)	µg/kg	--	41 J	28 U
Aroclor-1260 (PCB-1260)	µg/kg	--	25 U	27 U
Pesticides				
4,4'-DDD	µg/kg	--	4.3 J	18 U
4,4'-DDE	µg/kg	--	5.2 J	18 U
4,4'-DDT	µg/kg	--	2.9 J	14 U
Aldrin	µg/kg	--	0.86 U	9.4 U
alpha-BHC	µg/kg	--	1.9 J	11 U
alpha-Chlordane	µg/kg	--	1.7 U	18 U
beta-BHC	µg/kg	--	2.2 J	21 U
delta-BHC	µg/kg	--	1.9 U	21 U
Dieldrin	µg/kg	--	3.3 J	13 U
Endosulfan I	µg/kg	--	1.3 U	15 U
Endosulfan II	µg/kg	--	1.7 U	18 U
Endosulfan sulfate	µg/kg	--	1.4 U	16 U
Endrin	µg/kg	--	2.1 U	23 U
Endrin aldehyde	µg/kg	--	1.5 U	16 U
Endrin ketone	µg/kg	--	0.99 U	11 U
gamma-BHC (lindane)	µg/kg	--	2.0 U	22 U
gamma-Chlordane	µg/kg	--	1.8 J	15 U
Heptachlor	µg/kg	--	1.8 U	19 U
Heptachlor epoxide	µg/kg	--	1.6 U	18 U
Methoxychlor	µg/kg	--	7.3 U	80 U
Toxaphene	µg/kg	--	28 U	310 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-77**	**SS-78**	**SS-79**
	Sample Name:	**SS-38443-103018-JC-077**	**SS-38443-103118-JC-078**	**SS-38443-103118-JC-079**
	Sample Date:	**10/30/2018**	**10/31/2018**	**10/31/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs)				
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
Total heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
Total hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
Total pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
Total tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Metals				
Aluminum	mg/kg	--	9600	12000
Antimony	mg/kg	--	0.43	0.57
Arsenic	mg/kg	--	8.2	27
Barium	mg/kg	--	130	690
Beryllium	mg/kg	--	0.73	2.8
Cadmium	mg/kg	--	0.46	0.53
Calcium	mg/kg	--	43000	38000
Chromium	mg/kg	--	16	14
Chromium III (trivalent)	mg/kg	--	16	14
Chromium VI (hexavalent)	mg/kg	--	0.27 U	0.30 U
Cobalt	mg/kg	--	6.3	8.9

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-77**	**SS-78**	**SS-79**
	Sample Name:	**SS-38443-103018-JC-077**	**SS-38443-103118-JC-078**	**SS-38443-103118-JC-079**
	Sample Date:	**10/30/2018**	**10/31/2018**	**10/31/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Metals				
Copper	mg/kg	--	30	57
Iron	mg/kg	--	15000	13000
Lead	mg/kg	--	60	140
Lead - coarse fraction	mg/kg	--	--	52 J
Lead - fine fraction	mg/kg	--	--	99
Lead - total (calculated by fine/coarse fraction)	mg/kg	--	--	64
Magnesium	mg/kg	--	15000	5700
Manganese	mg/kg	--	490	220
Mercury	mg/kg	--	0.11 J	0.27
Nickel	mg/kg	--	14	19
Potassium	mg/kg	--	1000	730
Selenium	mg/kg	--	0.72 J	1.1
Silver	mg/kg	--	0.18 J	0.13 J
Sodium	mg/kg	--	97 J	640
Thallium	mg/kg	--	0.25	0.27
Vanadium	mg/kg	--	26	36
Zinc	mg/kg	--	100	120
General Chemistry				
Cyanide (total)	mg/kg	--	0.23 U	0.30 J
Soot carbon	mg/kg	--	--	--
Total organic carbon (TOC)	mg/kg	--	--	--

Notes:

R - Rejected
J - Estimated concentration
U - Not detected at the associated reporting limit
-- - Not applicable
UJ - Not detected; associated reporting limit is detected
PCBs - Polychlorinated Biphenyls

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-80**	**SS-81**	**SS-82**
	Sample Name:	**SS-38443-103118-JC-080**	**SS-38443-103118-JC-081**	**SS-38443-103118-JC-082**
	Sample Date:	**10/31/2018**	**10/31/2018**	**10/31/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/kg	0.88 U	0.81 U	0.79 U
1,1,2,2-Tetrachloroethane	µg/kg	R	1.4 U	1.4 U
1,1,2-Trichloroethane	µg/kg	1.2 U	1.1 U	1.1 U
1,1-Dichloroethane	µg/kg	0.75 U	0.68 U	0.66 U
1,1-Dichloroethene	µg/kg	0.97 U	0.89 U	0.86 U
1,2,4-Trichlorobenzene	µg/kg	R	0.56 U	0.55 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	R	3.6 U	3.5 U
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	0.83 U	0.76 U	0.74 U
1,2-Dichlorobenzene	µg/kg	R	1.1 U	1.1 U
1,2-Dichloroethane	µg/kg	0.83 U	0.76 U	0.74 U
1,2-Dichloropropane	µg/kg	0.92 U	0.84 U	0.81 U
1,3-Dichlorobenzene	µg/kg	R	0.81 U	0.78 U
1,4-Dichlorobenzene	µg/kg	R	0.87 U	0.84 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	3.8 U	3.5 U	19
2-Hexanone	µg/kg	4.4 U	4.0 U	3.9 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	4.0 U	3.7 U	3.6 U
Acetone	µg/kg	23 J	21 U	100
Benzene	µg/kg	0.75 U	0.69 U	0.67 U
Bromodichloromethane	µg/kg	0.73 U	0.67 U	0.65 U
Bromoform	µg/kg	2.6 U	2.4 U	2.3 U
Bromomethane (Methyl bromide)	µg/kg	1.1 U	0.97 U	0.95 U
Carbon disulfide	µg/kg	1.3 U	1.1 U	1.1 U
Carbon tetrachloride	µg/kg	3.5 U	3.2 U	3.1 U
Chlorobenzene	µg/kg	0.99 U	0.90 U	0.88 U
Chloroethane	µg/kg	1.3 U	1.2 U	1.2 U
Chloroform (Trichloromethane)	µg/kg	0.85 U	0.78 U	0.75 U
Chloromethane (Methyl chloride)	µg/kg	1.1 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/kg	0.70 U	0.64 U	0.62 U
cis-1,3-Dichloropropene	µg/kg	1.5 U	1.4 U	1.4 U
Cyclohexane	µg/kg	1.5 U	1.4 U	1.3 U
Dibromochloromethane	µg/kg	3.0 U	2.7 U	2.7 U
Dichlorodifluoromethane (CFC-12)	µg/kg	1.0 UJ	0.93 U	0.90 U
Ethylbenzene	µg/kg	1.1 U	1.0 U	1.0 U
Isopropyl benzene	µg/kg	0.89 U	0.82 U	0.80 U
Methyl acetate	µg/kg	3.7 UJ	3.4 U	3.3 U
Methyl cyclohexane	µg/kg	1.3 U	1.2 U	1.2 U
Methyl tert butyl ether (MTBE)	µg/kg	0.88 U	0.81 U	0.79 U
Methylene chloride	µg/kg	13 U	12 U	11 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-80**	**SS-81**	**SS-82**
	Sample Name:	**SS-38443-103118-JC-080**	**SS-38443-103118-JC-081**	**SS-38443-103118-JC-082**
	Sample Date:	**10/31/2018**	**10/31/2018**	**10/31/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
Styrene	µg/kg	1.2 U	1.1 U	1.1 U
Tetrachloroethene	µg/kg	0.79 U	0.72 U	0.70 U
Toluene	µg/kg	0.83 U	0.76 U	0.74 U
trans-1,2-Dichloroethene	µg/kg	0.50 U	0.46 U	0.45 U
trans-1,3-Dichloropropene	µg/kg	1.1 U	1.0 U	0.99 U
Trichloroethene	µg/kg	0.68 U	0.62 U	0.61 U
Trichlorofluoromethane (CFC-11)	µg/kg	1.2 U	1.1 U	1.0 U
Trifluorotrichloroethane (CFC-113)	µg/kg	1.4 U	1.3 U	1.2 U
Vinyl chloride	µg/kg	0.90 U	0.83 U	0.80 U
Xylenes (total)	µg/kg	1.7 U	1.6 U	1.5 U
Semivolatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	11 U	11 U	11 U
2,4,5-Trichlorophenol	µg/kg	75 U	78 U	77 U
2,4,6-Trichlorophenol	µg/kg	70 U	73 U	71 U
2,4-Dichlorophenol	µg/kg	48 U	50 U	49 U
2,4-Dimethylphenol	µg/kg	44 U	45 U	45 U
2,4-Dinitrophenol	µg/kg	150 U	160 U	160 U
2,4-Dinitrotoluene	µg/kg	68 U	70 U	69 U
2,6-Dinitrotoluene	µg/kg	61 U	64 U	62 U
2-Chloronaphthalene	µg/kg	15 U	16 U	16 U
2-Chlorophenol	µg/kg	11 U	11 U	11 U
2-Methylnaphthalene	µg/kg	46	770	26
2-Methylphenol	µg/kg	34 U	35 U	34 U
2-Nitroaniline	µg/kg	44 U	45 U	45 U
2-Nitrophenol	µg/kg	14 U	15 U	14 U
3&4-Methylphenol	µg/kg	32 U	33 U	32 U
3,3'-Dichlorobenzidine	µg/kg	47 U	49 U	48 U
3-Nitroaniline	µg/kg	53 U	56 U	55 U
4,6-Dinitro-2-methylphenol	µg/kg	87 U	91 U	89 U
4-Bromophenyl phenyl ether	µg/kg	15 U	16 U	16 U
4-Chloro-3-methylphenol	µg/kg	49 U	51 U	50 U
4-Chloroaniline	µg/kg	33 U	34 U	33 U
4-Chlorophenyl phenyl ether	µg/kg	15 U	16 U	16 U
4-Nitroaniline	µg/kg	65 U	68 U	67 U
4-Nitrophenol	µg/kg	100 U	110 U	100 U
Acenaphthene	µg/kg	3.1 U	26	3.2 U
Acenaphthylene	µg/kg	34	4.6 U	4.5 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-80**	**SS-81**	**SS-82**
	Sample Name:	**SS-38443-103118-JC-080**	**SS-38443-103118-JC-081**	**SS-38443-103118-JC-082**
	Sample Date:	**10/31/2018**	**10/31/2018**	**10/31/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Semivolatile Organic Compounds				
Acetophenone	µg/kg	12 U	64 J	12 U
Anthracene	µg/kg	38	57	8.8 J
Atrazine	µg/kg	39 U	41 U	40 U
Benzaldehyde	µg/kg	25 U	69 J	26 U
Benzo(a)anthracene	µg/kg	160	180	24
Benzo(a)pyrene	µg/kg	150	170	28
Benzo(b)fluoranthene	µg/kg	250	310	61
Benzo(g,h,i)perylene	µg/kg	130	120	33
Benzo(k)fluoranthene	µg/kg	95	80	21
Biphenyl (1,1-Biphenyl)	µg/kg	19 U	59	19 U
bis(2-Chloroethoxy)methane	µg/kg	13 U	14 U	13 U
bis(2-Chloroethyl)ether	µg/kg	13 U	14 U	13 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	56 U	73 J	57 U
Butyl benzylphthalate (BBP)	µg/kg	24 U	25 U	24 U
Caprolactam	µg/kg	82 U	85 U	83 U
Carbazole	µg/kg	21 U	44 J	21 U
Chrysene	µg/kg	170	220	38
Di-n-butylphthalate (DBP)	µg/kg	24 U	25 U	24 U
Di-n-octyl phthalate (DnOP)	µg/kg	30 U	32 U	31 U
Dibenz(a,h)anthracene	µg/kg	41	26	11 J
Dibenzofuran	µg/kg	18 J	170	14 U
Diethyl phthalate	µg/kg	34 U	35 U	34 U
Dimethyl phthalate	µg/kg	15 U	16 U	16 U
Fluoranthene	µg/kg	300	300	41
Fluorene	µg/kg	12 J	33	3.0 U
Hexachlorobenzene	µg/kg	3.1 U	3.2 U	3.2 U
Hexachlorobutadiene	µg/kg	13 U	14 U	13 U
Hexachlorocyclopentadiene	µg/kg	68 U	70 U	69 U
Hexachloroethane	µg/kg	9.8 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	µg/kg	110	63	32
Isophorone	µg/kg	13 U	14 U	13 U
N-Nitrosodi-n-propylamine	µg/kg	12 U	13 U	12 U
N-Nitrosodiphenylamine	µg/kg	13 U	14 U	13 U
Naphthalene	µg/kg	33	460	25
Nitrobenzene	µg/kg	14 U	15 U	14 U
Pentachlorophenol	µg/kg	63 U	66 UJ	65 U
Phenanthrene	µg/kg	170	510	46
Phenol	µg/kg	8.7 U	12 J	8.9 U
Pyrene	µg/kg	250	340	30

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-80**	**SS-81**	**SS-82**
	Sample Name:	**SS-38443-103118-JC-080**	**SS-38443-103118-JC-081**	**SS-38443-103118-JC-082**
	Sample Date:	**10/31/2018**	**10/31/2018**	**10/31/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Herbicides				
2,4,5-T	µg/kg	--	--	--
2,4,5-TP (Silvex)	µg/kg	--	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/kg	--	--	--
PCBs				
Aroclor-1016 (PCB-1016)	µg/kg	23 U	25 U	24 U
Aroclor-1221 (PCB-1221)	µg/kg	25 U	27 U	26 U
Aroclor-1232 (PCB-1232)	µg/kg	24 U	26 U	25 U
Aroclor-1242 (PCB-1242)	µg/kg	20 U	22 U	21 U
Aroclor-1248 (PCB-1248)	µg/kg	25 U	27 U	26 U
Aroclor-1254 (PCB-1254)	µg/kg	24 U	550	25 U
Aroclor-1260 (PCB-1260)	µg/kg	23 U	25 U	24 U
Pesticides				
4,4'-DDD	µg/kg	8.0 U	1.7 U	1.6 U
4,4'-DDE	µg/kg	8.2 U	1.7 U	1.7 U
4,4'-DDT	µg/kg	6.1 U	6.6 J	1.2 U
Aldrin	µg/kg	4.2 U	0.87 U	0.84 U
alpha-BHC	µg/kg	13 J	1.0 U	1.0 U
alpha-Chlordane	µg/kg	8.1 U	1.7 J	1.6 U
beta-BHC	µg/kg	9.4 U	7.3 J	5.1 J
delta-BHC	µg/kg	9.2 U	1.9 U	1.9 U
Dieldrin	µg/kg	6.0 U	37 J	1.2 U
Endosulfan I	µg/kg	6.5 U	1.4 U	1.3 U
Endosulfan II	µg/kg	8.0 U	1.7 U	1.6 U
Endosulfan sulfate	µg/kg	6.9 U	1.4 U	1.4 U
Endrin	µg/kg	10 U	2.2 U	2.1 U
Endrin aldehyde	µg/kg	7.1 U	2.4 J	1.4 U
Endrin ketone	µg/kg	4.8 U	1.0 U	0.98 U
gamma-BHC (lindane)	µg/kg	9.7 U	2.0 U	2.0 U
gamma-Chlordane	µg/kg	6.7 U	1.8 J	1.3 U
Heptachlor	µg/kg	8.6 U	1.8 U	1.7 U
Heptachlor epoxide	µg/kg	7.8 U	4.2 J	1.6 U
Methoxychlor	µg/kg	36 U	7.4 U	7.2 U
Toxaphene	µg/kg	140 U	28 U	27 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-80**	**SS-81**	**SS-82**
	Sample Name:	**SS-38443-103118-JC-080**	**SS-38443-103118-JC-081**	**SS-38443-103118-JC-082**
	Sample Date:	**10/31/2018**	**10/31/2018**	**10/31/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs)				
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
Total heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
Total hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
Total pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
Total tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Metals				
Aluminum	mg/kg	4600	6000	3000
Antimony	mg/kg	0.88	0.29 J	0.82
Arsenic	mg/kg	14	6.4	6.8
Barium	mg/kg	120	98	93
Beryllium	mg/kg	1.2	0.65	0.35
Cadmium	mg/kg	0.35	0.94	0.44
Calcium	mg/kg	73000	42000	87000
Chromium	mg/kg	15	16	80
Chromium III (trivalent)	mg/kg	15	16	80
Chromium VI (hexavalent)	mg/kg	0.42 J	0.28 U	0.27 U
Cobalt	mg/kg	6.3	5.5	4.4

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-80**	**SS-81**	**SS-82**
	Sample Name:	**SS-38443-103118-JC-080**	**SS-38443-103118-JC-081**	**SS-38443-103118-JC-082**
	Sample Date:	**10/31/2018**	**10/31/2018**	**10/31/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Metals				
Copper	mg/kg	90	23	66
Iron	mg/kg	8800	12000	27000
Lead	mg/kg	100	54	40
Lead - coarse fraction	mg/kg	--	44 J	--
Lead - fine fraction	mg/kg	--	74	--
Lead - total (calculated by fine/coarse fraction)	mg/kg	--	48	--
Magnesium	mg/kg	25000	14000	22000
Manganese	mg/kg	240	210	550
Mercury	mg/kg	0.092 J	0.067 J	0.031 J
Nickel	mg/kg	14	14	31
Potassium	mg/kg	660	750	590
Selenium	mg/kg	0.96 J	0.76 J	0.37 J
Silver	mg/kg	0.075 J	0.23	0.091 J
Sodium	mg/kg	170 J	160 J	100 J
Thallium	mg/kg	0.38	0.19	0.10 J
Vanadium	mg/kg	23	19	14
Zinc	mg/kg	180	100	39
General Chemistry				
Cyanide (total)	mg/kg	0.20 U	0.23 J	0.35 J
Soot carbon	mg/kg	--	--	--
Total organic carbon (TOC)	mg/kg	--	--	--

Notes:

R - Rejected
J - Estimated concentration
U - Not detected at the associated reporting limit
-- - Not applicable
UJ - Not detected; associated reporting limit is detected
PCBs - Polychlorinated Biphenyls

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-83**	**SS-84**	**SS-85**
	Sample Name:	**SS-38443-103118-JC-083**	**SS-38443-103118-JC-084**	**SS-38443-103118-JC-085**
	Sample Date:	**10/31/2018**	**10/31/2018**	**10/31/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/kg	0.99 U	0.74 U	--
1,1,2,2-Tetrachloroethane	µg/kg	R	1.3 U	--
1,1,2-Trichloroethane	µg/kg	R	1.0 U	--
1,1-Dichloroethane	µg/kg	0.84 U	0.63 U	--
1,1-Dichloroethene	µg/kg	1.1 U	0.82 U	--
1,2,4-Trichlorobenzene	µg/kg	R	0.52 U	--
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	R	3.3 U	--
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	R	0.70 U	--
1,2-Dichlorobenzene	µg/kg	R	1.0 U	--
1,2-Dichloroethane	µg/kg	0.93 U	0.70 U	--
1,2-Dichloropropane	µg/kg	1.0 U	0.77 U	--
1,3-Dichlorobenzene	µg/kg	R	0.74 U	--
1,4-Dichlorobenzene	µg/kg	R	0.80 U	--
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	4.3 U	13 J	--
2-Hexanone	µg/kg	R	3.7 U	--
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	R	3.4 U	--
Acetone	µg/kg	25 J	100	--
Benzene	µg/kg	0.84 U	0.63 U	--
Bromodichloromethane	µg/kg	0.82 U	0.61 U	--
Bromoform	µg/kg	R	2.2 U	--
Bromomethane (Methyl bromide)	µg/kg	1.2 U	0.89 U	--
Carbon disulfide	µg/kg	1.4 U	1.0 U	--
Carbon tetrachloride	µg/kg	3.9 U	2.9 U	--
Chlorobenzene	µg/kg	R	0.83 U	--
Chloroethane	µg/kg	1.5 U	1.1 U	--
Chloroform (Trichloromethane)	µg/kg	0.95 U	0.71 U	--
Chloromethane (Methyl chloride)	µg/kg	1.3 U	0.94 U	--
cis-1,2-Dichloroethene	µg/kg	0.93 J	0.59 U	--
cis-1,3-Dichloropropene	µg/kg	1.7 U	1.3 U	--
Cyclohexane	µg/kg	1.7 U	1.2 U	--
Dibromochloromethane	µg/kg	R	2.5 U	--
Dichlorodifluoromethane (CFC-12)	µg/kg	1.1 UJ	0.85 U	--
Ethylbenzene	µg/kg	R	0.95 U	--
Isopropyl benzene	µg/kg	R	0.75 U	--
Methyl acetate	µg/kg	4.1 UJ	3.1 U	--
Methyl cyclohexane	µg/kg	1.5 U	1.1 U	--
Methyl tert butyl ether (MTBE)	µg/kg	0.99 U	0.74 U	--
Methylene chloride	µg/kg	14 U	11 U	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-83**	**SS-84**	**SS-85**
	Sample Name:	**SS-38443-103118-JC-083**	**SS-38443-103118-JC-084**	**SS-38443-103118-JC-085**
	Sample Date:	**10/31/2018**	**10/31/2018**	**10/31/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
Styrene	µg/kg	R	1.0 U	--
Tetrachloroethene	µg/kg	R	0.66 U	--
Toluene	µg/kg	R	1.7 J	--
trans-1,2-Dichloroethene	µg/kg	0.56 U	0.42 U	--
trans-1,3-Dichloropropene	µg/kg	R	0.93 U	--
Trichloroethene	µg/kg	0.76 U	0.57 U	--
Trichlorofluoromethane (CFC-11)	µg/kg	1.3 U	0.97 U	--
Trifluorotrichloroethane (CFC-113)	µg/kg	1.5 U	1.2 U	--
Vinyl chloride	µg/kg	1.0 U	0.76 U	--
Xylenes (total)	µg/kg	R	1.5 J	--
Semivolatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	22 U	11 U	--
2,4,5-Trichlorophenol	µg/kg	150 U	78 U	--
2,4,6-Trichlorophenol	µg/kg	140 U	72 U	--
2,4-Dichlorophenol	µg/kg	95 U	49 U	--
2,4-Dimethylphenol	µg/kg	87 U	45 U	--
2,4-Dinitrophenol	µg/kg	310 U	160 U	--
2,4-Dinitrotoluene	µg/kg	130 U	70 U	--
2,6-Dinitrotoluene	µg/kg	120 U	63 U	--
2-Chloronaphthalene	µg/kg	30 U	16 U	--
2-Chlorophenol	µg/kg	22 U	11 U	--
2-Methylnaphthalene	µg/kg	110	74	--
2-Methylphenol	µg/kg	67 U	35 U	--
2-Nitroaniline	µg/kg	87 U	45 U	--
2-Nitrophenol	µg/kg	28 U	15 U	--
3&4-Methylphenol	µg/kg	63 U	33 U	--
3,3'-Dichlorobenzidine	µg/kg	93 U	48 U	--
3-Nitroaniline	µg/kg	110 U	55 U	--
4,6-Dinitro-2-methylphenol	µg/kg	170 U	90 U	--
4-Bromophenyl phenyl ether	µg/kg	30 U	16 U	--
4-Chloro-3-methylphenol	µg/kg	98 U	51 U	--
4-Chloroaniline	µg/kg	65 U	34 U	--
4-Chlorophenyl phenyl ether	µg/kg	30 U	16 U	--
4-Nitroaniline	µg/kg	130 U	67 U	--
4-Nitrophenol	µg/kg	200 U	110 U	--
Acenaphthene	µg/kg	54	3.2 U	--
Acenaphthylene	µg/kg	140	13 J	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-83**	**SS-84**	**SS-85**
	Sample Name:	**SS-38443-103118-JC-083**	**SS-38443-103118-JC-084**	**SS-38443-103118-JC-085**
	Sample Date:	**10/31/2018**	**10/31/2018**	**10/31/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Semivolatile Organic Compounds				
Acetophenone	µg/kg	24 U	12 U	--
Anthracene	µg/kg	270	14 J	--
Atrazine	µg/kg	78 U	40 U	--
Benzaldehyde	µg/kg	50 U	26 U	--
Benzo(a)anthracene	µg/kg	970	66	--
Benzo(a)pyrene	µg/kg	840	73	--
Benzo(b)fluoranthene	µg/kg	1300	120	--
Benzo(g,h,i)perylene	µg/kg	530	77	--
Benzo(k)fluoranthene	µg/kg	450	33	--
Biphenyl (1,1-Biphenyl)	µg/kg	37 U	19 U	--
bis(2-Chloroethoxy)methane	µg/kg	26 U	13 U	--
bis(2-Chloroethyl)ether	µg/kg	26 U	13 U	--
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	110 U	57 U	--
Butyl benzylphthalate (BBP)	µg/kg	48 U	25 U	--
Caprolactam	µg/kg	160 U	84 U	--
Carbazole	µg/kg	280	21 U	--
Chrysene	µg/kg	870	82	--
Di-n-butylphthalate (DBP)	µg/kg	48 U	25 U	--
Di-n-octyl phthalate (DnOP)	µg/kg	61 U	31 U	--
Dibenz(a,h)anthracene	µg/kg	150	17	--
Dibenzofuran	µg/kg	63 J	17 J	--
Diethyl phthalate	µg/kg	67 U	35 U	--
Dimethyl phthalate	µg/kg	30 U	16 U	--
Fluoranthene	µg/kg	2100	130	--
Fluorene	µg/kg	120	3.1 U	--
Hexachlorobenzene	µg/kg	6.2 U	3.2 U	--
Hexachlorobutadiene	µg/kg	26 U	13 U	--
Hexachlorocyclopentadiene	µg/kg	130 U	70 U	--
Hexachloroethane	µg/kg	20 U	10 U	--
Indeno(1,2,3-cd)pyrene	µg/kg	490	62	--
Isophorone	µg/kg	26 U	13 U	--
N-Nitrosodi-n-propylamine	µg/kg	24 U	12 U	--
N-Nitrosodiphenylamine	µg/kg	26 U	13 U	--
Naphthalene	µg/kg	75	45	--
Nitrobenzene	µg/kg	28 U	15 U	--
Pentachlorophenol	µg/kg	130 U	65 U	--
Phenanthrene	µg/kg	1300	86	--
Phenol	µg/kg	17 U	9.0 U	--
Pyrene	µg/kg	1500	120	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-83**	**SS-84**	**SS-85**
	Sample Name:	**SS-38443-103118-JC-083**	**SS-38443-103118-JC-084**	**SS-38443-103118-JC-085**
	Sample Date:	**10/31/2018**	**10/31/2018**	**10/31/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Herbicides				
2,4,5-T	µg/kg	--	--	14 U
2,4,5-TP (Silvex)	µg/kg	--	--	15 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/kg	--	--	54 U
PCBs				
Aroclor-1016 (PCB-1016)	µg/kg	23 U	25 U	--
Aroclor-1221 (PCB-1221)	µg/kg	26 U	27 U	--
Aroclor-1232 (PCB-1232)	µg/kg	24 U	26 U	--
Aroclor-1242 (PCB-1242)	µg/kg	20 U	21 U	--
Aroclor-1248 (PCB-1248)	µg/kg	26 U	27 U	--
Aroclor-1254 (PCB-1254)	µg/kg	40 J	760 J	--
Aroclor-1260 (PCB-1260)	µg/kg	23 U	25 U	--
Pesticides				
4,4'-DDD	µg/kg	1.6 U	8.2 U	--
4,4'-DDE	µg/kg	1.6 U	30	--
4,4'-DDT	µg/kg	1.2 U	13 J	--
Aldrin	µg/kg	0.82 U	4.3 U	--
alpha-BHC	µg/kg	0.97 U	5.1 U	--
alpha-Chlordane	µg/kg	1.6 U	8.4 U	--
beta-BHC	µg/kg	1.8 U	9.6 U	--
delta-BHC	µg/kg	1.8 U	9.4 U	--
Dieldrin	µg/kg	1.2 U	6.1 U	--
Endosulfan I	µg/kg	1.3 U	6.7 U	--
Endosulfan II	µg/kg	1.6 U	8.2 U	--
Endosulfan sulfate	µg/kg	1.4 U	7.1 U	--
Endrin	µg/kg	2.0 U	11 U	--
Endrin aldehyde	µg/kg	1.4 U	7.3 U	--
Endrin ketone	µg/kg	0.95 U	5.0 U	--
gamma-BHC (lindane)	µg/kg	1.9 U	10 U	--
gamma-Chlordane	µg/kg	1.3 U	6.9 U	--
Heptachlor	µg/kg	1.7 U	8.8 U	--
Heptachlor epoxide	µg/kg	1.5 U	8.0 U	--
Methoxychlor	µg/kg	7.0 U	37 U	--
Toxaphene	µg/kg	27 U	140 U	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-83**	**SS-84**	**SS-85**
	Sample Name:	**SS-38443-103118-JC-083**	**SS-38443-103118-JC-084**	**SS-38443-103118-JC-085**
	Sample Date:	**10/31/2018**	**10/31/2018**	**10/31/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs)				
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
Total heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
Total hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
Total pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
Total tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Metals				
Aluminum	mg/kg	3800	11000	--
Antimony	mg/kg	0.33 J	0.25 J	--
Arsenic	mg/kg	6.0	8.6	--
Barium	mg/kg	71	93	--
Beryllium	mg/kg	0.41	0.68	--
Cadmium	mg/kg	0.31	0.20 J	--
Calcium	mg/kg	96000	18000	--
Chromium	mg/kg	9.6	15	--
Chromium III (trivalent)	mg/kg	9.6	15	--
Chromium VI (hexavalent)	mg/kg	0.26 U	0.44 J	--
Cobalt	mg/kg	3.2	7.7	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-83**	**SS-84**	**SS-85**
	Sample Name:	**SS-38443-103118-JC-083**	**SS-38443-103118-JC-084**	**SS-38443-103118-JC-085**
	Sample Date:	**10/31/2018**	**10/31/2018**	**10/31/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Metals				
Copper	mg/kg	23	20	--
Iron	mg/kg	8100	18000	--
Lead	mg/kg	70	35	--
Lead - coarse fraction	mg/kg	--	--	--
Lead - fine fraction	mg/kg	--	--	--
Lead - total (calculated by fine/coarse fraction)	mg/kg	--	--	--
Magnesium	mg/kg	38000	7300	--
Manganese	mg/kg	250	350	--
Mercury	mg/kg	0.024 J	0.042 J	--
Nickel	mg/kg	8.6	17	--
Potassium	mg/kg	650	1000	--
Selenium	mg/kg	0.69 J	0.82 J	--
Silver	mg/kg	0.060 J	0.053 J	--
Sodium	mg/kg	130 J	91 J	--
Thallium	mg/kg	0.13 J	0.28	--
Vanadium	mg/kg	17	28	--
Zinc	mg/kg	73	67	--
General Chemistry				
Cyanide (total)	mg/kg	0.21 U	0.23 U	--
Soot carbon	mg/kg	--	--	--
Total organic carbon (TOC)	mg/kg	--	--	--

Notes:

R - Rejected
J - Estimated concentration
U - Not detected at the associated reporting limit
-- - Not applicable
UJ - Not detected; associated reporting limit is detected
PCBs - Polychlorinated Biphenyls

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-87**	**SS-87**	**SS-88**
	Sample Name:	**SS-38443-103118-JC-087**	**SS-38443-103118-JC-119**	**SS-38443-103118-JC-088**
	Sample Date:	**10/31/2018**	**10/31/2018**	**10/31/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
			Duplicate	
Parameters	**Unit**			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/kg	0.83 U	0.82 U	--
1,1,2,2-Tetrachloroethane	µg/kg	1.5 U	1.4 U	--
1,1,2-Trichloroethane	µg/kg	1.1 U	1.1 U	--
1,1-Dichloroethane	µg/kg	0.70 U	0.69 U	--
1,1-Dichloroethene	µg/kg	0.92 U	0.90 U	--
1,2,4-Trichlorobenzene	µg/kg	0.58 U	0.57 U	--
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	3.7 U	3.6 U	--
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	0.78 U	0.77 U	--
1,2-Dichlorobenzene	µg/kg	1.1 U	1.1 U	--
1,2-Dichloroethane	µg/kg	0.78 U	0.77 U	--
1,2-Dichloropropane	µg/kg	0.86 U	0.85 U	--
1,3-Dichlorobenzene	µg/kg	0.83 U	0.81 U	--
1,4-Dichlorobenzene	µg/kg	0.89 U	0.88 U	--
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	3.6 U	3.5 U	--
2-Hexanone	µg/kg	4.1 U	4.1 U	--
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	3.8 U	3.7 U	--
Acetone	µg/kg	21 U	21 U	--
Benzene	µg/kg	0.71 U	0.70 U	--
Bromodichloromethane	µg/kg	0.69 U	0.68 U	--
Bromoform	µg/kg	2.4 U	2.4 U	--
Bromomethane (Methyl bromide)	µg/kg	1.0 U	0.98 U	--
Carbon disulfide	µg/kg	1.2 U	1.2 U	--
Carbon tetrachloride	µg/kg	3.3 U	3.2 U	--
Chlorobenzene	µg/kg	0.93 U	0.91 U	--
Chloroethane	µg/kg	1.2 U	1.2 U	--
Chloroform (Trichloromethane)	µg/kg	0.80 U	0.78 U	--
Chloromethane (Methyl chloride)	µg/kg	1.1 U	1.0 U	--
cis-1,2-Dichloroethene	µg/kg	0.66 U	0.65 U	--
cis-1,3-Dichloropropene	µg/kg	1.5 U	1.4 U	--
Cyclohexane	µg/kg	1.4 U	1.4 U	--
Dibromochloromethane	µg/kg	2.8 U	2.8 U	--
Dichlorodifluoromethane (CFC-12)	µg/kg	0.96 U	0.94 U	--
Ethylbenzene	µg/kg	1.1 U	1.0 U	--
Isopropyl benzene	µg/kg	0.84 U	0.83 U	--
Methyl acetate	µg/kg	3.5 U	3.4 U	--
Methyl cyclohexane	µg/kg	1.2 U	1.2 U	--
Methyl tert butyl ether (MTBE)	µg/kg	0.83 U	0.82 U	--
Methylene chloride	µg/kg	12 U	12 U	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-87**	**SS-87**	**SS-88**
	Sample Name:	**SS-38443-103118-JC-087**	**SS-38443-103118-JC-119**	**SS-38443-103118-JC-088**
	Sample Date:	**10/31/2018**	**10/31/2018**	**10/31/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
			Duplicate	
Parameters	**Unit**			
Volatile Organic Compounds				
Styrene	µg/kg	1.2 U	1.2 U	--
Tetrachloroethene	µg/kg	0.74 U	0.73 U	--
Toluene	µg/kg	0.78 U	0.77 U	--
trans-1,2-Dichloroethene	µg/kg	0.47 U	0.46 U	--
trans-1,3-Dichloropropene	µg/kg	1.0 U	1.0 U	--
Trichloroethene	µg/kg	0.64 U	0.63 U	--
Trichlorofluoromethane (CFC-11)	µg/kg	1.1 U	1.1 U	--
Trifluorotrichloroethane (CFC-113)	µg/kg	1.3 U	1.3 U	--
Vinyl chloride	µg/kg	0.85 U	0.83 U	--
Xylenes (total)	µg/kg	1.6 U	1.6 U	--
Semivolatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	23 U	22 U	--
2,4,5-Trichlorophenol	µg/kg	160 U	150 U	--
2,4,6-Trichlorophenol	µg/kg	150 U	140 U	--
2,4-Dichlorophenol	µg/kg	100 U	98 U	--
2,4-Dimethylphenol	µg/kg	92 U	89 U	--
2,4-Dinitrophenol	µg/kg	330 U	320 U	--
2,4-Dinitrotoluene	µg/kg	140 U	140 U	--
2,6-Dinitrotoluene	µg/kg	130 U	120 U	--
2-Chloronaphthalene	µg/kg	32 U	31 U	--
2-Chlorophenol	µg/kg	23 U	22 U	--
2-Methylnaphthalene	µg/kg	39	32 J	--
2-Methylphenol	µg/kg	71 U	69 U	--
2-Nitroaniline	µg/kg	92 U	89 U	--
2-Nitrophenol	µg/kg	30 U	29 U	--
3&4-Methylphenol	µg/kg	67 U	65 U	--
3,3'-Dichlorobenzidine	µg/kg	99 U	96 U	--
3-Nitroaniline	µg/kg	110 U	110 U	--
4,6-Dinitro-2-methylphenol	µg/kg	180 U	180 U	--
4-Bromophenyl phenyl ether	µg/kg	32 U	31 U	--
4-Chloro-3-methylphenol	µg/kg	100 U	100 U	--
4-Chloroaniline	µg/kg	69 U	67 U	--
4-Chlorophenyl phenyl ether	µg/kg	32 U	31 U	--
4-Nitroaniline	µg/kg	140 U	130 U	--
4-Nitrophenol	µg/kg	220 U	210 U	--
Acenaphthene	µg/kg	87	97	--
Acenaphthylene	µg/kg	37	26 J	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-87**	**SS-87**	**SS-88**
	Sample Name:	**SS-38443-103118-JC-087**	**SS-38443-103118-JC-119**	**SS-38443-103118-JC-088**
	Sample Date:	**10/31/2018**	**10/31/2018**	**10/31/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
			Duplicate	
Parameters	**Unit**			
Semivolatile Organic Compounds				
Acetophenone	µg/kg	25 U	24 U	--
Anthracene	µg/kg	210	200	--
Atrazine	µg/kg	83 U	80 U	--
Benzaldehyde	µg/kg	53 U	51 U	--
Benzo(a)anthracene	µg/kg	960	890	--
Benzo(a)pyrene	µg/kg	910	920	--
Benzo(b)fluoranthene	µg/kg	1400	1200	--
Benzo(g,h,i)perylene	µg/kg	350	730	--
Benzo(k)fluoranthene	µg/kg	580	490	--
Biphenyl (1,1-Biphenyl)	µg/kg	39 U	38 U	--
bis(2-Chloroethoxy)methane	µg/kg	28 U	27 U	--
bis(2-Chloroethyl)ether	µg/kg	28 U	27 U	--
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	120 U	110 U	--
Butyl benzylphthalate (BBP)	µg/kg	51 U	49 U	--
Caprolactam	µg/kg	170 U	170 U	--
Carbazole	µg/kg	180	190	--
Chrysene	µg/kg	1000	970	--
Di-n-butylphthalate (DBP)	µg/kg	51 U	49 U	--
Di-n-octyl phthalate (DnOP)	µg/kg	64 U	62 U	--
Dibenz(a,h)anthracene	µg/kg	100	180	--
Dibenzofuran	µg/kg	41 J	41 J	--
Diethyl phthalate	µg/kg	71 U	69 U	--
Dimethyl phthalate	µg/kg	32 U	31 U	--
Fluoranthene	µg/kg	1900	1800	--
Fluorene	µg/kg	62	65	--
Hexachlorobenzene	µg/kg	6.6 U	6.3 U	--
Hexachlorobutadiene	µg/kg	28 U	27 U	--
Hexachlorocyclopentadiene	µg/kg	140 U	140 U	--
Hexachloroethane	µg/kg	21 U	20 U	--
Indeno(1,2,3-cd)pyrene	µg/kg	350	620	--
Isophorone	µg/kg	28 U	27 U	--
N-Nitrosodi-n-propylamine	µg/kg	25 U	24 U	--
N-Nitrosodiphenylamine	µg/kg	28 U	27 U	--
Naphthalene	µg/kg	30 J	29 J	--
Nitrobenzene	µg/kg	30 U	29 U	--
Pentachlorophenol	µg/kg	130 UJ	130 UJ	--
Phenanthrene	µg/kg	980	1100	--
Phenol	µg/kg	18 U	18 U	--
Pyrene	µg/kg	1900	1900	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-87**	**SS-87**	**SS-88**
	Sample Name:	**SS-38443-103118-JC-087**	**SS-38443-103118-JC-119**	**SS-38443-103118-JC-088**
	Sample Date:	**10/31/2018**	**10/31/2018**	**10/31/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
			Duplicate	
Parameters	**Unit**			
Herbicides				
2,4,5-T	µg/kg	--	--	15 U
2,4,5-TP (Silvex)	µg/kg	--	--	16 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/kg	--	--	55 U
PCBs				
Aroclor-1016 (PCB-1016)	µg/kg	25 U	24 U	--
Aroclor-1221 (PCB-1221)	µg/kg	27 U	27 U	--
Aroclor-1232 (PCB-1232)	µg/kg	26 U	25 U	--
Aroclor-1242 (PCB-1242)	µg/kg	21 U	21 U	--
Aroclor-1248 (PCB-1248)	µg/kg	27 U	27 U	--
Aroclor-1254 (PCB-1254)	µg/kg	26 U	25 U	--
Aroclor-1260 (PCB-1260)	µg/kg	25 U	24 U	--
Pesticides				
4,4'-DDD	µg/kg	1.7 U	1.6 U	--
4,4'-DDE	µg/kg	1.7 U	1.7 U	--
4,4'-DDT	µg/kg	1.7 J	1.3 U	--
Aldrin	µg/kg	0.87 U	0.85 U	--
alpha-BHC	µg/kg	1.0 U	1.0 U	--
alpha-Chlordane	µg/kg	1.7 U	1.7 U	--
beta-BHC	µg/kg	1.9 U	1.9 U	--
delta-BHC	µg/kg	1.9 U	1.9 U	--
Dieldrin	µg/kg	1.2 U	1.2 U	--
Endosulfan I	µg/kg	1.4 U	1.3 U	--
Endosulfan II	µg/kg	1.7 U	1.6 U	--
Endosulfan sulfate	µg/kg	1.4 U	1.4 U	--
Endrin	µg/kg	2.1 U	2.1 U	--
Endrin aldehyde	µg/kg	1.6 J	4.1 J	--
Endrin ketone	µg/kg	1.0 U	0.99 U	--
gamma-BHC (lindane)	µg/kg	2.0 U	2.0 U	--
gamma-Chlordane	µg/kg	1.4 U	1.4 U	--
Heptachlor	µg/kg	1.8 U	1.8 U	--
Heptachlor epoxide	µg/kg	1.6 U	1.6 U	--
Methoxychlor	µg/kg	7.4 U	7.3 U	--
Toxaphene	µg/kg	28 U	28 U	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-87**	**SS-87**	**SS-88**
	Sample Name:	**SS-38443-103118-JC-087**	**SS-38443-103118-JC-119**	**SS-38443-103118-JC-088**
	Sample Date:	**10/31/2018**	**10/31/2018**	**10/31/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
			Duplicate	
Parameters	**Unit**			
Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs)				
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
Total heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
Total hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
Total pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
Total tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Metals				
Aluminum	mg/kg	6500	6200	--
Antimony	mg/kg	0.21 J	0.27 J	--
Arsenic	mg/kg	6.7	6.2	--
Barium	mg/kg	55	61	--
Beryllium	mg/kg	0.52	0.49	--
Cadmium	mg/kg	0.24	0.25	--
Calcium	mg/kg	96000	93000	--
Chromium	mg/kg	11	11	--
Chromium III (trivalent)	mg/kg	11	11	--
Chromium VI (hexavalent)	mg/kg	0.28 U	0.27 U	--
Cobalt	mg/kg	4.3	4.4	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-87**	**SS-87**	**SS-88**
	Sample Name:	**SS-38443-103118-JC-087**	**SS-38443-103118-JC-119**	**SS-38443-103118-JC-088**
	Sample Date:	**10/31/2018**	**10/31/2018**	**10/31/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
			Duplicate	
Parameters	**Unit**			
Metals				
Copper	mg/kg	20	21	--
Iron	mg/kg	12000	11000	--
Lead	mg/kg	28	36	--
Lead - coarse fraction	mg/kg	--	--	--
Lead - fine fraction	mg/kg	--	--	--
Lead - total (calculated by fine/coarse fraction)	mg/kg	--	--	--
Magnesium	mg/kg	36000	29000	--
Manganese	mg/kg	350	370	--
Mercury	mg/kg	0.029 J	0.053 J	--
Nickel	mg/kg	12	12	--
Potassium	mg/kg	720	720	--
Selenium	mg/kg	0.68 J	0.62 J	--
Silver	mg/kg	0.044 J	0.053 J	--
Sodium	mg/kg	120 J	110 J	--
Thallium	mg/kg	0.16 J	0.19	--
Vanadium	mg/kg	17	18	--
Zinc	mg/kg	59	70	--
General Chemistry				
Cyanide (total)	mg/kg	0.20 U	0.23 U	--
Soot carbon	mg/kg	--	--	--
Total organic carbon (TOC)	mg/kg	--	--	--

Notes:

R - Rejected
J - Estimated concentration
U - Not detected at the associated reporting limit
-- - Not applicable
UJ - Not detected; associated reporting limit is detected
PCBs - Polychlorinated Biphenyls

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-89**	**SS-90**	**SS-91**
	Sample Name:	**SS-38443-103018-JC-089**	**SS-38443-103118-JC-090**	**SS-38443-103118-JC-091**
	Sample Date:	**10/30/2018**	**10/31/2018**	**10/31/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/kg	--	0.85 U	0.73 U
1,1,2,2-Tetrachloroethane	µg/kg	--	1.5 U	1.3 U
1,1,2-Trichloroethane	µg/kg	--	1.2 U	1.0 U
1,1-Dichloroethane	µg/kg	--	0.72 U	0.62 U
1,1-Dichloroethene	µg/kg	--	0.94 U	0.80 U
1,2,4-Trichlorobenzene	µg/kg	--	0.59 U	0.51 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	--	3.7 U	3.2 U
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	--	0.80 U	0.69 U
1,2-Dichlorobenzene	µg/kg	--	1.2 U	0.99 U
1,2-Dichloroethane	µg/kg	--	0.80 U	0.69 U
1,2-Dichloropropane	µg/kg	--	0.88 U	0.76 U
1,3-Dichlorobenzene	µg/kg	--	0.85 U	0.73 U
1,4-Dichlorobenzene	µg/kg	--	0.92 U	0.79 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	--	3.7 U	3.2 U
2-Hexanone	µg/kg	--	4.2 U	3.6 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	--	3.9 U	3.3 U
Acetone	µg/kg	--	22 U	19 U
Benzene	µg/kg	--	0.73 U	0.62 U
Bromodichloromethane	µg/kg	--	0.71 U	0.60 U
Bromoform	µg/kg	--	2.5 U	2.1 U
Bromomethane (Methyl bromide)	µg/kg	--	1.0 U	0.88 U
Carbon disulfide	µg/kg	--	1.2 U	1.0 U
Carbon tetrachloride	µg/kg	--	3.4 U	2.9 U
Chlorobenzene	µg/kg	--	0.95 U	0.82 U
Chloroethane	µg/kg	--	1.3 U	1.1 U
Chloroform (Trichloromethane)	µg/kg	--	0.82 U	0.70 U
Chloromethane (Methyl chloride)	µg/kg	--	1.1 U	0.93 U
cis-1,2-Dichloroethene	µg/kg	--	0.68 U	0.58 U
cis-1,3-Dichloropropene	µg/kg	--	1.5 U	1.3 U
Cyclohexane	µg/kg	--	1.4 U	1.2 U
Dibromochloromethane	µg/kg	--	2.9 U	2.5 U
Dichlorodifluoromethane (CFC-12)	µg/kg	--	0.98 UJ	0.84 U
Ethylbenzene	µg/kg	--	1.1 U	0.93 U
Isopropyl benzene	µg/kg	--	0.87 U	0.74 U
Methyl acetate	µg/kg	--	3.5 UJ	3.0 U
Methyl cyclohexane	µg/kg	--	1.3 U	1.1 U
Methyl tert butyl ether (MTBE)	µg/kg	--	0.85 U	0.73 U
Methylene chloride	µg/kg	--	12 U	11 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-89**	**SS-90**	**SS-91**
	Sample Name:	**SS-38443-103018-JC-089**	**SS-38443-103118-JC-090**	**SS-38443-103118-JC-091**
	Sample Date:	**10/30/2018**	**10/31/2018**	**10/31/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
Styrene	µg/kg	--	1.2 U	1.0 U
Tetrachloroethene	µg/kg	--	0.76 U	0.65 U
Toluene	µg/kg	--	0.80 U	0.69 U
trans-1,2-Dichloroethene	µg/kg	--	0.48 U	0.41 U
trans-1,3-Dichloropropene	µg/kg	--	1.1 U	0.92 U
Trichloroethene	µg/kg	--	0.66 U	0.56 U
Trichlorofluoromethane (CFC-11)	µg/kg	--	1.1 U	0.96 U
Trifluorotrichloroethane (CFC-113)	µg/kg	--	1.3 U	1.1 U
Vinyl chloride	µg/kg	--	0.87 U	0.75 U
Xylenes (total)	µg/kg	--	1.6 U	1.4 U
Semivolatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	--	10 U	21 U
2,4,5-Trichlorophenol	µg/kg	--	72 U	150 U
2,4,6-Trichlorophenol	µg/kg	--	67 U	140 U
2,4-Dichlorophenol	µg/kg	--	46 U	94 U
2,4-Dimethylphenol	µg/kg	--	42 U	86 U
2,4-Dinitrophenol	µg/kg	--	150 U	300 U
2,4-Dinitrotoluene	µg/kg	--	65 U	130 U
2,6-Dinitrotoluene	µg/kg	--	59 U	120 U
2-Chloronaphthalene	µg/kg	--	15 U	30 U
2-Chlorophenol	µg/kg	--	10 U	21 U
2-Methylnaphthalene	µg/kg	--	33	78
2-Methylphenol	µg/kg	--	33 U	66 U
2-Nitroaniline	µg/kg	--	42 U	86 U
2-Nitrophenol	µg/kg	--	14 U	28 U
3&4-Methylphenol	µg/kg	--	30 U	62 U
3,3'-Dichlorobenzidine	µg/kg	--	45 U	92 U
3-Nitroaniline	µg/kg	--	51 U	100 U
4,6-Dinitro-2-methylphenol	µg/kg	--	84 U	170 U
4-Bromophenyl phenyl ether	µg/kg	--	15 U	30 U
4-Chloro-3-methylphenol	µg/kg	--	47 U	96 U
4-Chloroaniline	µg/kg	--	31 U	64 U
4-Chlorophenyl phenyl ether	µg/kg	--	15 U	30 U
4-Nitroaniline	µg/kg	--	63 U	130 U
4-Nitrophenol	µg/kg	--	99 U	200 U
Acenaphthene	µg/kg	--	3.0 U	89
Acenaphthylene	µg/kg	--	4.2 U	60

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-89**	**SS-90**	**SS-91**
	Sample Name:	**SS-38443-103018-JC-089**	**SS-38443-103118-JC-090**	**SS-38443-103118-JC-091**
	Sample Date:	**10/30/2018**	**10/31/2018**	**10/31/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Semivolatile Organic Compounds				
Acetophenone	µg/kg	--	12 U	24 U
Anthracene	µg/kg	--	6.6 J	250
Atrazine	µg/kg	--	38 U	77 U
Benzaldehyde	µg/kg	--	24 U	49 U
Benzo(a)anthracene	µg/kg	--	34	720
Benzo(a)pyrene	µg/kg	--	35	690
Benzo(b)fluoranthene	µg/kg	--	56	970
Benzo(g,h,i)perylene	µg/kg	--	20	390
Benzo(k)fluoranthene	µg/kg	--	17	330
Biphenyl (1,1-Biphenyl)	µg/kg	--	18 U	36 U
bis(2-Chloroethoxy)methane	µg/kg	--	13 U	26 U
bis(2-Chloroethyl)ether	µg/kg	--	13 U	26 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	--	54 U	110 U
Butyl benzylphthalate (BBP)	µg/kg	--	23 U	47 U
Caprolactam	µg/kg	--	79 U	160 U
Carbazole	µg/kg	--	23 J	140
Chrysene	µg/kg	--	40	720
Di-n-butylphthalate (DBP)	µg/kg	--	23 U	47 U
Di-n-octyl phthalate (DnOP)	µg/kg	--	29 U	60 U
Dibenz(a,h)anthracene	µg/kg	--	8.3 J	120
Dibenzofuran	µg/kg	--	14 U	57 J
Diethyl phthalate	µg/kg	--	33 U	66 U
Dimethyl phthalate	µg/kg	--	15 U	30 U
Fluoranthene	µg/kg	--	62	1500
Fluorene	µg/kg	--	2.9 U	82
Hexachlorobenzene	µg/kg	--	3.0 U	6.1 U
Hexachlorobutadiene	µg/kg	--	13 U	26 U
Hexachlorocyclopentadiene	µg/kg	--	65 U	130 U
Hexachloroethane	µg/kg	--	9.4 U	19 U
Indeno(1,2,3-cd)pyrene	µg/kg	--	14 J	370
Isophorone	µg/kg	--	13 U	26 U
N-Nitrosodi-n-propylamine	µg/kg	--	12 U	24 U
N-Nitrosodiphenylamine	µg/kg	--	13 U	26 U
Naphthalene	µg/kg	--	25	59
Nitrobenzene	µg/kg	--	14 U	28 U
Pentachlorophenol	µg/kg	--	61 UJ	120 UJ
Phenanthrene	µg/kg	--	44	980
Phenol	µg/kg	--	8.4 U	17 U
Pyrene	µg/kg	--	63	1400

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-89**	**SS-90**	**SS-91**
	Sample Name:	**SS-38443-103018-JC-089**	**SS-38443-103118-JC-090**	**SS-38443-103118-JC-091**
	Sample Date:	**10/30/2018**	**10/31/2018**	**10/31/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Herbicides				
2,4,5-T	µg/kg	16 U	--	--
2,4,5-TP (Silvex)	µg/kg	18 U	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/kg	62 U	--	--
PCBs				
Aroclor-1016 (PCB-1016)	µg/kg	--	23 U	23 U
Aroclor-1221 (PCB-1221)	µg/kg	--	25 U	26 U
Aroclor-1232 (PCB-1232)	µg/kg	--	24 U	25 U
Aroclor-1242 (PCB-1242)	µg/kg	--	20 U	20 U
Aroclor-1248 (PCB-1248)	µg/kg	--	25 U	26 U
Aroclor-1254 (PCB-1254)	µg/kg	--	24 U	170
Aroclor-1260 (PCB-1260)	µg/kg	--	23 U	23 U
Pesticides				
4,4'-DDD	µg/kg	--	1.5 U	1.6 U
4,4'-DDE	µg/kg	--	1.6 U	2.7 J
4,4'-DDT	µg/kg	--	1.2 U	4.7 J
Aldrin	µg/kg	--	0.81 U	0.82 U
alpha-BHC	µg/kg	--	0.95 U	0.97 U
alpha-Chlordane	µg/kg	--	1.6 U	1.6 U
beta-BHC	µg/kg	--	1.8 U	1.8 U
delta-BHC	µg/kg	--	1.8 U	1.8 U
Dieldrin	µg/kg	--	1.2 U	1.2 U
Endosulfan I	µg/kg	--	1.3 U	1.3 U
Endosulfan II	µg/kg	--	1.5 U	1.6 U
Endosulfan sulfate	µg/kg	--	1.3 U	1.4 U
Endrin	µg/kg	--	2.0 U	2.0 U
Endrin aldehyde	µg/kg	--	1.4 U	1.4 U
Endrin ketone	µg/kg	--	0.93 U	0.95 U
gamma-BHC (lindane)	µg/kg	--	1.9 U	1.9 U
gamma-Chlordane	µg/kg	--	1.3 U	1.8 J
Heptachlor	µg/kg	--	1.7 U	1.7 U
Heptachlor epoxide	µg/kg	--	1.5 U	1.5 U
Methoxychlor	µg/kg	--	6.9 U	7.0 U
Toxaphene	µg/kg	--	26 U	27 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-89**	**SS-90**	**SS-91**
	Sample Name:	**SS-38443-103018-JC-089**	**SS-38443-103118-JC-090**	**SS-38443-103118-JC-091**
	Sample Date:	**10/30/2018**	**10/31/2018**	**10/31/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs)				
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
Total heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
Total hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
Total pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
Total tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Metals				
Aluminum	mg/kg	--	4700	4800
Antimony	mg/kg	--	0.30 J	0.57
Arsenic	mg/kg	--	4.1	6.4
Barium	mg/kg	--	70	75
Beryllium	mg/kg	--	0.97	0.59
Cadmium	mg/kg	--	0.82	0.44
Calcium	mg/kg	--	110000	85000
Chromium	mg/kg	--	57	12
Chromium III (trivalent)	mg/kg	--	57	12
Chromium VI (hexavalent)	mg/kg	--	0.42 J	0.26 U
Cobalt	mg/kg	--	4.3	3.5

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-89**	**SS-90**	**SS-91**
	Sample Name:	**SS-38443-103018-JC-089**	**SS-38443-103118-JC-090**	**SS-38443-103118-JC-091**
	Sample Date:	**10/30/2018**	**10/31/2018**	**10/31/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Metals				
Copper	mg/kg	--	3700	21
Iron	mg/kg	--	17000	24000
Lead	mg/kg	--	210	42
Lead - coarse fraction	mg/kg	--	--	--
Lead - fine fraction	mg/kg	--	--	--
Lead - total (calculated by fine/coarse fraction)	mg/kg	--	--	--
Magnesium	mg/kg	--	41000	35000
Manganese	mg/kg	--	300	560
Mercury	mg/kg	--	0.064 J	0.048 J
Nickel	mg/kg	--	47	10
Potassium	mg/kg	--	560	650
Selenium	mg/kg	--	0.33 J	0.44 J
Silver	mg/kg	--	0.81	0.040 J
Sodium	mg/kg	--	160 J	160 J
Thallium	mg/kg	--	0.10 J	0.13 J
Vanadium	mg/kg	--	60	16
Zinc	mg/kg	--	1000	86
General Chemistry				
Cyanide (total)	mg/kg	--	0.22 U	0.19 U
Soot carbon	mg/kg	--	--	--
Total organic carbon (TOC)	mg/kg	--	--	--

Notes:

R - Rejected
J - Estimated concentration
U - Not detected at the associated reporting limit
-- - Not applicable
UJ - Not detected; associated reporting limit is detected
PCBs - Polychlorinated Biphenyls

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-92**	**SS-93**	**SS-94**
	Sample Name:	**SS-38443-103118-JC-092**	**SS-38443-103118-JC-093**	**SS-38443-103018-JC-094**
	Sample Date:	**10/31/2018**	**10/31/2018**	**10/30/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/kg	0.98 U	0.81 U	--
1,1,2,2-Tetrachloroethane	µg/kg	1.7 U	R	--
1,1,2-Trichloroethane	µg/kg	1.3 U	1.1 U	--
1,1-Dichloroethane	µg/kg	4.3 J	0.69 U	--
1,1-Dichloroethene	µg/kg	1.1 U	0.90 U	--
1,2,4-Trichlorobenzene	µg/kg	0.68 U	R	--
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	4.3 U	R	--
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	0.92 U	0.76 U	--
1,2-Dichlorobenzene	µg/kg	1.3 U	R	--
1,2-Dichloroethane	µg/kg	0.92 U	0.77 U	--
1,2-Dichloropropane	µg/kg	1.0 U	0.84 U	--
1,3-Dichlorobenzene	µg/kg	0.97 U	R	--
1,4-Dichlorobenzene	µg/kg	1.1 U	R	--
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	41	6.6 J	--
2-Hexanone	µg/kg	4.9 U	4.0 U	--
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	4.4 U	3.7 U	--
Acetone	µg/kg	180	22 J	--
Benzene	µg/kg	0.83 U	0.69 U	--
Bromodichloromethane	µg/kg	0.81 U	0.67 U	--
Bromoform	µg/kg	2.9 U	2.4 U	--
Bromomethane (Methyl bromide)	µg/kg	1.2 U	0.98 U	--
Carbon disulfide	µg/kg	1.4 U	1.2 U	--
Carbon tetrachloride	µg/kg	3.9 U	3.2 U	--
Chlorobenzene	µg/kg	1.1 U	0.91 U	--
Chloroethane	µg/kg	1.5 U	1.2 U	--
Chloroform (Trichloromethane)	µg/kg	0.94 U	0.78 U	--
Chloromethane (Methyl chloride)	µg/kg	1.2 U	1.0 U	--
cis-1,2-Dichloroethene	µg/kg	0.78 U	0.65 U	--
cis-1,3-Dichloropropene	µg/kg	1.7 U	1.4 U	--
Cyclohexane	µg/kg	1.6 U	1.4 U	--
Dibromochloromethane	µg/kg	3.3 U	2.8 U	--
Dichlorodifluoromethane (CFC-12)	µg/kg	1.1 UJ	0.94 U	--
Ethylbenzene	µg/kg	2.4 J	1.0 U	--
Isopropyl benzene	µg/kg	1.1 J	0.82 U	--
Methyl acetate	µg/kg	4.1 UJ	3.4 U	--
Methyl cyclohexane	µg/kg	1.5 U	1.2 U	--
Methyl tert butyl ether (MTBE)	µg/kg	0.98 U	0.81 U	--
Methylene chloride	µg/kg	14 U	12 U	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-92**	**SS-93**	**SS-94**
	Sample Name:	**SS-38443-103118-JC-092**	**SS-38443-103118-JC-093**	**SS-38443-103018-JC-094**
	Sample Date:	**10/31/2018**	**10/31/2018**	**10/30/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
Styrene	µg/kg	1.4 U	1.1 U	--
Tetrachloroethene	µg/kg	0.87 U	0.72 U	--
Toluene	µg/kg	2.6 J	0.77 U	--
trans-1,2-Dichloroethene	µg/kg	0.55 U	0.46 U	--
trans-1,3-Dichloropropene	µg/kg	1.2 U	1.0 U	--
Trichloroethene	µg/kg	0.75 U	0.63 U	--
Trichlorofluoromethane (CFC-11)	µg/kg	1.3 U	1.1 U	--
Trifluorotrichloroethane (CFC-113)	µg/kg	1.5 U	1.3 U	--
Vinyl chloride	µg/kg	1.0 U	0.83 U	--
Xylenes (total)	µg/kg	12	1.6 U	--
Semivolatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	560 U	11 U	--
2,4,5-Trichlorophenol	µg/kg	3800 U	74 U	--
2,4,6-Trichlorophenol	µg/kg	3600 U	69 U	--
2,4-Dichlorophenol	µg/kg	2400 U	47 U	--
2,4-Dimethylphenol	µg/kg	2200 U	43 U	--
2,4-Dinitrophenol	µg/kg	7900 U	150 U	--
2,4-Dinitrotoluene	µg/kg	3500 U	67 U	--
2,6-Dinitrotoluene	µg/kg	3100 U	60 U	--
2-Chloronaphthalene	µg/kg	780 U	15 U	--
2-Chlorophenol	µg/kg	560 U	11 U	--
2-Methylnaphthalene	µg/kg	2900	9.7 J	--
2-Methylphenol	µg/kg	1700 U	33 U	--
2-Nitroaniline	µg/kg	2200 U	43 U	--
2-Nitrophenol	µg/kg	720 U	14 U	--
3&4-Methylphenol	µg/kg	1600 U	31 U	--
3,3'-Dichlorobenzidine	µg/kg	2400 U	46 U	--
3-Nitroaniline	µg/kg	2700 U	53 U	--
4,6-Dinitro-2-methylphenol	µg/kg	4500 U	86 U	--
4-Bromophenyl phenyl ether	µg/kg	780 U	15 U	--
4-Chloro-3-methylphenol	µg/kg	2500 U	49 U	--
4-Chloroaniline	µg/kg	1700 U	32 U	--
4-Chlorophenyl phenyl ether	µg/kg	780 U	15 U	--
4-Nitroaniline	µg/kg	3300 U	65 U	--
4-Nitrophenol	µg/kg	5200 U	100 U	--
Acenaphthene	µg/kg	160 U	3.1 U	--
Acenaphthylene	µg/kg	220 U	6.6 J	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-92**	**SS-93**	**SS-94**
	Sample Name:	**SS-38443-103118-JC-092**	**SS-38443-103118-JC-093**	**SS-38443-103018-JC-094**
	Sample Date:	**10/31/2018**	**10/31/2018**	**10/30/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Semivolatile Organic Compounds				
Acetophenone	µg/kg	610 U	12 U	--
Anthracene	µg/kg	130 U	13 J	--
Atrazine	µg/kg	2000 U	39 U	--
Benzaldehyde	µg/kg	1300 U	25 U	--
Benzo(a)anthracene	µg/kg	190 U	100	--
Benzo(a)pyrene	µg/kg	520 U	84	--
Benzo(b)fluoranthene	µg/kg	600 J	340	--
Benzo(g,h,i)perylene	µg/kg	630 J	140	--
Benzo(k)fluoranthene	µg/kg	390 U	94	--
Biphenyl (1,1-Biphenyl)	µg/kg	950 U	18 U	--
bis(2-Chloroethoxy)methane	µg/kg	670 U	13 U	--
bis(2-Chloroethyl)ether	µg/kg	670 U	13 U	--
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	8600	55 U	--
Butyl benzylphthalate (BBP)	µg/kg	1200 U	24 U	--
Caprolactam	µg/kg	4200 U	81 U	--
Carbazole	µg/kg	1100 U	21 U	--
Chrysene	µg/kg	83 U	150	--
Di-n-butylphthalate (DBP)	µg/kg	1200 U	24 U	--
Di-n-octyl phthalate (DnOP)	µg/kg	1600 U	30 U	--
Dibenz(a,h)anthracene	µg/kg	390 U	48	--
Dibenzofuran	µg/kg	720 U	14 U	--
Diethyl phthalate	µg/kg	1700 U	33 U	--
Dimethyl phthalate	µg/kg	780 U	15 U	--
Fluoranthene	µg/kg	1100	110	--
Fluorene	µg/kg	530 J	3.0 U	--
Hexachlorobenzene	µg/kg	160 U	3.1 U	--
Hexachlorobutadiene	µg/kg	670 U	13 U	--
Hexachlorocyclopentadiene	µg/kg	3500 U	67 U	--
Hexachloroethane	µg/kg	500 U	9.7 U	--
Indeno(1,2,3-cd)pyrene	µg/kg	410 U	120	--
Isophorone	µg/kg	670 U	44 J	--
N-Nitrosodi-n-propylamine	µg/kg	610 U	12 U	--
N-Nitrosodiphenylamine	µg/kg	670 U	13 U	--
Naphthalene	µg/kg	760 J	13 J	--
Nitrobenzene	µg/kg	720 U	14 U	--
Pentachlorophenol	µg/kg	3200 U	63 U	--
Phenanthrene	µg/kg	1100	84	--
Phenol	µg/kg	450 U	8.6 U	--
Pyrene	µg/kg	1500	85	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-92**	**SS-93**	**SS-94**
	Sample Name:	**SS-38443-103118-JC-092**	**SS-38443-103118-JC-093**	**SS-38443-103018-JC-094**
	Sample Date:	**10/31/2018**	**10/31/2018**	**10/30/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Herbicides				
2,4,5-T	µg/kg	--	--	17 U
2,4,5-TP (Silvex)	µg/kg	--	--	18 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/kg	--	--	63 U
PCBs				
Aroclor-1016 (PCB-1016)	µg/kg	240 U	23 U	--
Aroclor-1221 (PCB-1221)	µg/kg	270 U	26 U	--
Aroclor-1232 (PCB-1232)	µg/kg	260 U	25 U	--
Aroclor-1242 (PCB-1242)	µg/kg	210 U	20 U	--
Aroclor-1248 (PCB-1248)	µg/kg	270 U	26 U	--
Aroclor-1254 (PCB-1254)	µg/kg	260 U	25 U	--
Aroclor-1260 (PCB-1260)	µg/kg	240 U	23 U	--
Pesticides				
4,4'-DDD	µg/kg	33 U	1.6 U	--
4,4'-DDE	µg/kg	34 U	1.6 U	--
4,4'-DDT	µg/kg	25 U	1.2 U	--
Aldrin	µg/kg	17 U	0.82 U	--
alpha-BHC	µg/kg	20 U	0.97 U	--
alpha-Chlordane	µg/kg	33 U	1.6 U	--
beta-BHC	µg/kg	39 U	1.8 U	--
delta-BHC	µg/kg	38 U	1.8 U	--
Dieldrin	µg/kg	24 U	1.2 U	--
Endosulfan I	µg/kg	27 U	1.3 U	--
Endosulfan II	µg/kg	33 U	1.6 U	--
Endosulfan sulfate	µg/kg	28 U	1.4 U	--
Endrin	µg/kg	42 U	2.0 U	--
Endrin aldehyde	µg/kg	29 U	1.4 U	--
Endrin ketone	µg/kg	20 U	0.95 U	--
gamma-BHC (lindane)	µg/kg	40 U	1.9 U	--
gamma-Chlordane	µg/kg	27 U	1.3 U	--
Heptachlor	µg/kg	35 U	1.7 U	--
Heptachlor epoxide	µg/kg	32 U	1.5 U	--
Methoxychlor	µg/kg	150 U	7.0 U	--
Toxaphene	µg/kg	560 U	27 U	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-92**	**SS-93**	**SS-94**
	Sample Name:	**SS-38443-103118-JC-092**	**SS-38443-103118-JC-093**	**SS-38443-103018-JC-094**
	Sample Date:	**10/31/2018**	**10/31/2018**	**10/30/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs)				
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
Total heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
Total hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
Total pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
Total tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Metals				
Aluminum	mg/kg	7000	4600	--
Antimony	mg/kg	0.52	0.70	--
Arsenic	mg/kg	11	12	--
Barium	mg/kg	120	280	--
Beryllium	mg/kg	0.61	1.2	--
Cadmium	mg/kg	1.6	0.44	--
Calcium	mg/kg	80000	76000	--
Chromium	mg/kg	20	13	--
Chromium III (trivalent)	mg/kg	20	13	--
Chromium VI (hexavalent)	mg/kg	0.27 U	0.26 U	--
Cobalt	mg/kg	6.0	4.7	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-92**	**SS-93**	**SS-94**
	Sample Name:	**SS-38443-103118-JC-092**	**SS-38443-103118-JC-093**	**SS-38443-103018-JC-094**
	Sample Date:	**10/31/2018**	**10/31/2018**	**10/30/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Metals				
Copper	mg/kg	40	50	--
Iron	mg/kg	14000	11000	--
Lead	mg/kg	310	150	--
Lead - coarse fraction	mg/kg	--	--	--
Lead - fine fraction	mg/kg	--	--	--
Lead - total (calculated by fine/coarse fraction)	mg/kg	--	--	--
Magnesium	mg/kg	34000	26000	--
Manganese	mg/kg	470	230	--
Mercury	mg/kg	0.17	0.082 J	--
Nickel	mg/kg	18	13	--
Potassium	mg/kg	920	640	--
Selenium	mg/kg	0.77 J	0.75 J	--
Silver	mg/kg	0.16 J	0.084 J	--
Sodium	mg/kg	170 J	170 J	--
Thallium	mg/kg	0.27	0.32	--
Vanadium	mg/kg	21	17	--
Zinc	mg/kg	210	130	--
General Chemistry				
Cyanide (total)	mg/kg	0.21 U	0.23 J	--
Soot carbon	mg/kg	--	--	--
Total organic carbon (TOC)	mg/kg	--	--	--

Notes:

R - Rejected
J - Estimated concentration
U - Not detected at the associated reporting limit
-- - Not applicable
UJ - Not detected; associated reporting limit is detected
PCBs - Polychlorinated Biphenyls

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-95**	**SS-96**	**SS-97**
	Sample Name:	**SS-38443-122018-JC-095**	**SS-38443-122018-JC-096**	**SS-38443-122018-JC-097**
	Sample Date:	**12/20/2018**	**12/20/2018**	**12/20/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/kg	--	--	--
1,1,2,2-Tetrachloroethane	µg/kg	--	--	--
1,1,2-Trichloroethane	µg/kg	--	--	--
1,1-Dichloroethane	µg/kg	--	--	--
1,1-Dichloroethene	µg/kg	--	--	--
1,2,4-Trichlorobenzene	µg/kg	--	--	--
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	--	--	--
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	--	--	--
1,2-Dichlorobenzene	µg/kg	--	--	--
1,2-Dichloroethane	µg/kg	--	--	--
1,2-Dichloropropane	µg/kg	--	--	--
1,3-Dichlorobenzene	µg/kg	--	--	--
1,4-Dichlorobenzene	µg/kg	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	--	--	--
2-Hexanone	µg/kg	--	--	--
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	--	--	--
Acetone	µg/kg	--	--	--
Benzene	µg/kg	--	--	--
Bromodichloromethane	µg/kg	--	--	--
Bromoform	µg/kg	--	--	--
Bromomethane (Methyl bromide)	µg/kg	--	--	--
Carbon disulfide	µg/kg	--	--	--
Carbon tetrachloride	µg/kg	--	--	--
Chlorobenzene	µg/kg	--	--	--
Chloroethane	µg/kg	--	--	--
Chloroform (Trichloromethane)	µg/kg	--	--	--
Chloromethane (Methyl chloride)	µg/kg	--	--	--
cis-1,2-Dichloroethene	µg/kg	--	--	--
cis-1,3-Dichloropropene	µg/kg	--	--	--
Cyclohexane	µg/kg	--	--	--
Dibromochloromethane	µg/kg	--	--	--
Dichlorodifluoromethane (CFC-12)	µg/kg	--	--	--
Ethylbenzene	µg/kg	--	--	--
Isopropyl benzene	µg/kg	--	--	--
Methyl acetate	µg/kg	--	--	--
Methyl cyclohexane	µg/kg	--	--	--
Methyl tert butyl ether (MTBE)	µg/kg	--	--	--
Methylene chloride	µg/kg	--	--	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-95**	**SS-96**	**SS-97**
	Sample Name:	**SS-38443-122018-JC-095**	**SS-38443-122018-JC-096**	**SS-38443-122018-JC-097**
	Sample Date:	**12/20/2018**	**12/20/2018**	**12/20/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
Styrene	µg/kg	--	--	--
Tetrachloroethene	µg/kg	--	--	--
Toluene	µg/kg	--	--	--
trans-1,2-Dichloroethene	µg/kg	--	--	--
trans-1,3-Dichloropropene	µg/kg	--	--	--
Trichloroethene	µg/kg	--	--	--
Trichlorofluoromethane (CFC-11)	µg/kg	--	--	--
Trifluorotrichloroethane (CFC-113)	µg/kg	--	--	--
Vinyl chloride	µg/kg	--	--	--
Xylenes (total)	µg/kg	--	--	--
Semivolatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	--	--	--
2,4,5-Trichlorophenol	µg/kg	--	--	--
2,4,6-Trichlorophenol	µg/kg	--	--	--
2,4-Dichlorophenol	µg/kg	--	--	--
2,4-Dimethylphenol	µg/kg	--	--	--
2,4-Dinitrophenol	µg/kg	--	--	--
2,4-Dinitrotoluene	µg/kg	--	--	--
2,6-Dinitrotoluene	µg/kg	--	--	--
2-Chloronaphthalene	µg/kg	--	--	--
2-Chlorophenol	µg/kg	--	--	--
2-Methylnaphthalene	µg/kg	--	--	--
2-Methylphenol	µg/kg	--	--	--
2-Nitroaniline	µg/kg	--	--	--
2-Nitrophenol	µg/kg	--	--	--
3&4-Methylphenol	µg/kg	--	--	--
3,3'-Dichlorobenzidine	µg/kg	--	--	--
3-Nitroaniline	µg/kg	--	--	--
4,6-Dinitro-2-methylphenol	µg/kg	--	--	--
4-Bromophenyl phenyl ether	µg/kg	--	--	--
4-Chloro-3-methylphenol	µg/kg	--	--	--
4-Chloroaniline	µg/kg	--	--	--
4-Chlorophenyl phenyl ether	µg/kg	--	--	--
4-Nitroaniline	µg/kg	--	--	--
4-Nitrophenol	µg/kg	--	--	--
Acenaphthene	µg/kg	--	--	--
Acenaphthylene	µg/kg	--	--	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-95**	**SS-96**	**SS-97**
	Sample Name:	**SS-38443-122018-JC-095**	**SS-38443-122018-JC-096**	**SS-38443-122018-JC-097**
	Sample Date:	**12/20/2018**	**12/20/2018**	**12/20/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Semivolatile Organic Compounds				
Acetophenone	µg/kg	--	--	--
Anthracene	µg/kg	--	--	--
Atrazine	µg/kg	--	--	--
Benzaldehyde	µg/kg	--	--	--
Benzo(a)anthracene	µg/kg	--	--	--
Benzo(a)pyrene	µg/kg	--	--	--
Benzo(b)fluoranthene	µg/kg	--	--	--
Benzo(g,h,i)perylene	µg/kg	--	--	--
Benzo(k)fluoranthene	µg/kg	--	--	--
Biphenyl (1,1-Biphenyl)	µg/kg	--	--	--
bis(2-Chloroethoxy)methane	µg/kg	--	--	--
bis(2-Chloroethyl)ether	µg/kg	--	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	--	--	--
Butyl benzylphthalate (BBP)	µg/kg	--	--	--
Caprolactam	µg/kg	--	--	--
Carbazole	µg/kg	--	--	--
Chrysene	µg/kg	--	--	--
Di-n-butylphthalate (DBP)	µg/kg	--	--	--
Di-n-octyl phthalate (DnOP)	µg/kg	--	--	--
Dibenz(a,h)anthracene	µg/kg	--	--	--
Dibenzofuran	µg/kg	--	--	--
Diethyl phthalate	µg/kg	--	--	--
Dimethyl phthalate	µg/kg	--	--	--
Fluoranthene	µg/kg	--	--	--
Fluorene	µg/kg	--	--	--
Hexachlorobenzene	µg/kg	--	--	--
Hexachlorobutadiene	µg/kg	--	--	--
Hexachlorocyclopentadiene	µg/kg	--	--	--
Hexachloroethane	µg/kg	--	--	--
Indeno(1,2,3-cd)pyrene	µg/kg	--	--	--
Isophorone	µg/kg	--	--	--
N-Nitrosodi-n-propylamine	µg/kg	--	--	--
N-Nitrosodiphenylamine	µg/kg	--	--	--
Naphthalene	µg/kg	--	--	--
Nitrobenzene	µg/kg	--	--	--
Pentachlorophenol	µg/kg	--	--	--
Phenanthrene	µg/kg	--	--	--
Phenol	µg/kg	--	--	--
Pyrene	µg/kg	--	--	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-95**	**SS-96**	**SS-97**
	Sample Name:	**SS-38443-122018-JC-095**	**SS-38443-122018-JC-096**	**SS-38443-122018-JC-097**
	Sample Date:	**12/20/2018**	**12/20/2018**	**12/20/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Herbicides				
2,4,5-T	µg/kg	15 U	15 U	17 U
2,4,5-TP (Silvex)	µg/kg	16 U	16 U	18 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/kg	58 U	58 U	63 U
PCBs				
Aroclor-1016 (PCB-1016)	µg/kg	--	--	--
Aroclor-1221 (PCB-1221)	µg/kg	--	--	--
Aroclor-1232 (PCB-1232)	µg/kg	--	--	--
Aroclor-1242 (PCB-1242)	µg/kg	--	--	--
Aroclor-1248 (PCB-1248)	µg/kg	--	--	--
Aroclor-1254 (PCB-1254)	µg/kg	--	--	--
Aroclor-1260 (PCB-1260)	µg/kg	--	--	--
Pesticides				
4,4'-DDD	µg/kg	--	--	--
4,4'-DDE	µg/kg	--	--	--
4,4'-DDT	µg/kg	--	--	--
Aldrin	µg/kg	--	--	--
alpha-BHC	µg/kg	--	--	--
alpha-Chlordane	µg/kg	--	--	--
beta-BHC	µg/kg	--	--	--
delta-BHC	µg/kg	--	--	--
Dieldrin	µg/kg	--	--	--
Endosulfan I	µg/kg	--	--	--
Endosulfan II	µg/kg	--	--	--
Endosulfan sulfate	µg/kg	--	--	--
Endrin	µg/kg	--	--	--
Endrin aldehyde	µg/kg	--	--	--
Endrin ketone	µg/kg	--	--	--
gamma-BHC (lindane)	µg/kg	--	--	--
gamma-Chlordane	µg/kg	--	--	--
Heptachlor	µg/kg	--	--	--
Heptachlor epoxide	µg/kg	--	--	--
Methoxychlor	µg/kg	--	--	--
Toxaphene	µg/kg	--	--	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-95**	**SS-96**	**SS-97**
	Sample Name:	**SS-38443-122018-JC-095**	**SS-38443-122018-JC-096**	**SS-38443-122018-JC-097**
	Sample Date:	**12/20/2018**	**12/20/2018**	**12/20/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs)				
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
Total heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
Total hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
Total pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
Total tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Metals				
Aluminum	mg/kg	--	--	--
Antimony	mg/kg	--	--	--
Arsenic	mg/kg	--	--	--
Barium	mg/kg	--	--	--
Beryllium	mg/kg	--	--	--
Cadmium	mg/kg	--	--	--
Calcium	mg/kg	--	--	--
Chromium	mg/kg	--	--	--
Chromium III (trivalent)	mg/kg	--	--	--
Chromium VI (hexavalent)	mg/kg	--	--	--
Cobalt	mg/kg	--	--	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-95**	**SS-96**	**SS-97**
	Sample Name:	**SS-38443-122018-JC-095**	**SS-38443-122018-JC-096**	**SS-38443-122018-JC-097**
	Sample Date:	**12/20/2018**	**12/20/2018**	**12/20/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Metals				
Copper	mg/kg	--	--	--
Iron	mg/kg	--	--	--
Lead	mg/kg	--	--	--
Lead - coarse fraction	mg/kg	--	--	--
Lead - fine fraction	mg/kg	--	--	--
Lead - total (calculated by fine/coarse fraction)	mg/kg	--	--	--
Magnesium	mg/kg	--	--	--
Manganese	mg/kg	--	--	--
Mercury	mg/kg	--	--	--
Nickel	mg/kg	--	--	--
Potassium	mg/kg	--	--	--
Selenium	mg/kg	--	--	--
Silver	mg/kg	--	--	--
Sodium	mg/kg	--	--	--
Thallium	mg/kg	--	--	--
Vanadium	mg/kg	--	--	--
Zinc	mg/kg	--	--	--
General Chemistry				
Cyanide (total)	mg/kg	--	--	--
Soot carbon	mg/kg	--	--	--
Total organic carbon (TOC)	mg/kg	--	--	--

Notes:

R - Rejected
J - Estimated concentration
U - Not detected at the associated reporting limit
-- - Not applicable
UJ - Not detected; associated reporting limit is detected
PCBs - Polychlorinated Biphenyls

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-99**	**SS-100**	**SS-100**
	Sample Name:	**SS-38443-110218-JC-099**	**SS-38443-110218-JC-100**	**SS-38443-110218-JC-121**
	Sample Date:	**11/02/2018**	**11/02/2018**	**11/02/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
				Duplicate
Parameters	**Unit**			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/kg	0.81 U	1.1 U	0.92 U
1,1,2,2-Tetrachloroethane	µg/kg	1.4 UJ	1.9 UJ	1.6 UJ
1,1,2-Trichloroethane	µg/kg	1.1 U	1.5 U	1.3 U
1,1-Dichloroethane	µg/kg	0.69 U	0.92 U	0.78 U
1,1-Dichloroethene	µg/kg	0.90 U	1.2 U	1.0 U
1,2,4-Trichlorobenzene	µg/kg	0.57 U	0.76 U	0.64 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	3.6 U	4.8 U	4.1 U
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	0.76 U	1.0 U	0.87 U
1,2-Dichlorobenzene	µg/kg	1.1 U	1.5 U	1.3 U
1,2-Dichloroethane	µg/kg	0.77 U	1.0 U	0.87 U
1,2-Dichloropropane	µg/kg	0.84 U	1.1 U	0.96 U
1,3-Dichlorobenzene	µg/kg	0.81 U	1.1 U	0.92 U
1,4-Dichlorobenzene	µg/kg	0.87 U	1.2 U	0.99 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	3.5 U	4.7 U	4.0 U
2-Hexanone	µg/kg	4.1 U	5.4 U	4.6 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	3.7 U	4.9 U	4.2 U
Acetone	µg/kg	21 U	28 U	24 U
Benzene	µg/kg	0.69 U	0.92 U	0.79 U
Bromodichloromethane	µg/kg	0.67 U	0.90 U	0.76 U
Bromoform	µg/kg	2.4 U	3.2 UJ	2.7 UJ
Bromomethane (Methyl bromide)	µg/kg	0.98 U	1.3 U	1.1 U
Carbon disulfide	µg/kg	1.2 U	1.5 U	1.3 U
Carbon tetrachloride	µg/kg	3.2 U	4.3 UJ	3.7 UJ
Chlorobenzene	µg/kg	0.91 U	1.2 U	1.0 U
Chloroethane	µg/kg	1.2 U	1.6 U	1.4 U
Chloroform (Trichloromethane)	µg/kg	0.78 U	1.0 U	0.89 U
Chloromethane (Methyl chloride)	µg/kg	1.0 U	1.4 U	1.2 U
cis-1,2-Dichloroethene	µg/kg	0.65 U	0.96 U	0.93 U
cis-1,3-Dichloropropene	µg/kg	1.4 U	1.9 U	1.6 U
Cyclohexane	µg/kg	1.4 U	1.8 U	1.5 U
Dibromochloromethane	µg/kg	2.8 U	3.7 U	3.1 U
Dichlorodifluoromethane (CFC-12)	µg/kg	0.94 UJ	1.2 U	1.1 U
Ethylbenzene	µg/kg	1.0 U	1.4 U	1.2 U
Isopropyl benzene	µg/kg	0.83 U	1.1 U	0.94 U
Methyl acetate	µg/kg	3.4 U	4.5 U	3.8 U
Methyl cyclohexane	µg/kg	1.2 U	1.6 U	1.4 U
Methyl tert butyl ether (MTBE)	µg/kg	0.81 U	1.1 U	0.92 U
Methylene chloride	µg/kg	12 U	16 U	14 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-99**	**SS-100**	**SS-100**
	Sample Name:	**SS-38443-110218-JC-099**	**SS-38443-110218-JC-100**	**SS-38443-110218-JC-121**
	Sample Date:	**11/02/2018**	**11/02/2018**	**11/02/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
				Duplicate
Parameters	**Unit**			
Volatile Organic Compounds				
Styrene	µg/kg	1.1 U	1.5 U	1.3 U
Tetrachloroethene	µg/kg	0.72 U	0.96 U	0.82 U
Toluene	µg/kg	0.77 U	1.0 U	0.87 U
trans-1,2-Dichloroethene	µg/kg	0.46 U	0.61 U	0.52 U
trans-1,3-Dichloropropene	µg/kg	1.0 U	1.4 U	1.2 U
Trichloroethene	µg/kg	0.63 U	0.84 U	0.71 U
Trichlorofluoromethane (CFC-11)	µg/kg	1.1 U	1.4 U	1.2 U
Trifluorotrichloroethane (CFC-113)	µg/kg	1.3 U	1.7 U	1.4 U
Vinyl chloride	µg/kg	0.83 U	1.1 UJ	0.94 UJ
Xylenes (total)	µg/kg	1.6 U	2.1 U	1.8 U
Semivolatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	12 U	12 U	12 U
2,4,5-Trichlorophenol	µg/kg	80 U	83 U	79 U
2,4,6-Trichlorophenol	µg/kg	74 U	77 U	74 U
2,4-Dichlorophenol	µg/kg	51 U	53 U	51 U
2,4-Dimethylphenol	µg/kg	46 U	48 U	46 U
2,4-Dinitrophenol	µg/kg	160 U	170 U	160 U
2,4-Dinitrotoluene	µg/kg	72 U	74 U	71 U
2,6-Dinitrotoluene	µg/kg	65 U	67 U	64 U
2-Chloronaphthalene	µg/kg	16 U	17 U	16 U
2-Chlorophenol	µg/kg	12 U	12 U	12 U
2-Methylnaphthalene	µg/kg	19	95	180
2-Methylphenol	µg/kg	36 U	37 U	36 U
2-Nitroaniline	µg/kg	46 U	48 U	46 U
2-Nitrophenol	µg/kg	15 U	16 U	15 U
3&4-Methylphenol	µg/kg	34 U	35 U	33 U
3,3'-Dichlorobenzidine	µg/kg	50 U	52 U	50 U
3-Nitroaniline	µg/kg	57 U	59 U	56 U
4,6-Dinitro-2-methylphenol	µg/kg	93 U	96 U	92 U
4-Bromophenyl phenyl ether	µg/kg	16 U	17 U	16 U
4-Chloro-3-methylphenol	µg/kg	52 U	54 U	52 U
4-Chloroaniline	µg/kg	35 U	36 U	35 U
4-Chlorophenyl phenyl ether	µg/kg	16 U	17 U	16 U
4-Nitroaniline	µg/kg	70 U	72 U	69 U
4-Nitrophenol	µg/kg	110 U	110 U	110 U
Acenaphthene	µg/kg	3.3 U	20	27
Acenaphthylene	µg/kg	8.0 J	39	36

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-99**	**SS-100**	**SS-100**
	Sample Name:	**SS-38443-110218-JC-099**	**SS-38443-110218-JC-100**	**SS-38443-110218-JC-121**
	Sample Date:	**11/02/2018**	**11/02/2018**	**11/02/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
				Duplicate
Parameters	**Unit**			
Semivolatile Organic Compounds				
Acetophenone	µg/kg	13 U	13 U	48 J
Anthracene	µg/kg	19	80	87
Atrazine	µg/kg	42 U	43 U	41 U
Benzaldehyde	µg/kg	27 U	28 U	26 U
Benzo(a)anthracene	µg/kg	160	330	340
Benzo(a)pyrene	µg/kg	180	280	310
Benzo(b)fluoranthene	µg/kg	280	440	470
Benzo(g,h,i)perylene	µg/kg	170	240	260
Benzo(k)fluoranthene	µg/kg	90	150	200
Biphenyl (1,1-Biphenyl)	µg/kg	20 U	20 U	20 U
bis(2-Chloroethoxy)methane	µg/kg	14 U	14 U	14 U
bis(2-Chloroethyl)ether	µg/kg	14 U	14 U	14 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	60 J	74 J	140
Butyl benzylphthalate (BBP)	µg/kg	26 U	26 U	25 U
Caprolactam	µg/kg	87 U	90 U	86 U
Carbazole	µg/kg	22 U	38 J	47 J
Chrysene	µg/kg	190	350	370
Di-n-butylphthalate (DBP)	µg/kg	40 J	26 U	25 U
Di-n-octyl phthalate (DnOP)	µg/kg	32 U	34 U	32 U
Dibenz(a,h)anthracene	µg/kg	40	56	69
Dibenzofuran	µg/kg	15 U	32 J	47 J
Diethyl phthalate	µg/kg	36 U	37 U	36 U
Dimethyl phthalate	µg/kg	16 U	17 U	16 U
Fluoranthene	µg/kg	310	700	800
Fluorene	µg/kg	5.1 J	27	32
Hexachlorobenzene	µg/kg	3.3 U	3.4 U	3.3 U
Hexachlorobutadiene	µg/kg	14 U	14 U	14 U
Hexachlorocyclopentadiene	µg/kg	72 U	74 U	71 U
Hexachloroethane	µg/kg	10 U	11 U	10 U
Indeno(1,2,3-cd)pyrene	µg/kg	140	190	200
Isophorone	µg/kg	14 U	14 U	14 U
N-Nitrosodi-n-propylamine	µg/kg	13 U	13 U	13 U
N-Nitrosodiphenylamine	µg/kg	14 U	14 U	14 U
Naphthalene	µg/kg	9.5 J	91	160
Nitrobenzene	µg/kg	15 U	16 U	15 U
Pentachlorophenol	µg/kg	67 U	70 U	67 U
Phenanthrene	µg/kg	93	360	460
Phenol	µg/kg	9.3 U	9.6 U	9.2 U
Pyrene	µg/kg	250	570	610

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-99**	**SS-100**	**SS-100**
	Sample Name:	**SS-38443-110218-JC-099**	**SS-38443-110218-JC-100**	**SS-38443-110218-JC-121**
	Sample Date:	**11/02/2018**	**11/02/2018**	**11/02/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
				Duplicate
Parameters	**Unit**			
Herbicides				
2,4,5-T	µg/kg	--	--	--
2,4,5-TP (Silvex)	µg/kg	--	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/kg	--	--	--
PCBs				
Aroclor-1016 (PCB-1016)	µg/kg	25 U	28 U	26 U
Aroclor-1221 (PCB-1221)	µg/kg	28 U	30 U	28 U
Aroclor-1232 (PCB-1232)	µg/kg	27 U	29 U	27 U
Aroclor-1242 (PCB-1242)	µg/kg	22 U	24 U	22 U
Aroclor-1248 (PCB-1248)	µg/kg	400	30 U	28 U
Aroclor-1254 (PCB-1254)	µg/kg	27 U	160	27 U
Aroclor-1260 (PCB-1260)	µg/kg	74	28 U	26 U
Pesticides				
4,4'-DDD	µg/kg	1.7 U	1.8 U	1.7 U
4,4'-DDE	µg/kg	1.7 U	1.8 U	1.7 U
4,4'-DDT	µg/kg	1.3 U	2.0 J	1.3 U
Aldrin	µg/kg	0.88 U	0.93 U	0.87 U
alpha-BHC	µg/kg	1.0 U	1.1 U	1.0 U
alpha-Chlordane	µg/kg	1.7 U	1.8 U	1.7 U
beta-BHC	µg/kg	2.0 U	2.1 U	2.0 U
delta-BHC	µg/kg	1.9 U	2.0 U	1.9 U
Dieldrin	µg/kg	1.3 U	1.3 U	1.2 U
Endosulfan I	µg/kg	1.4 U	1.4 U	1.4 U
Endosulfan II	µg/kg	1.7 U	1.8 U	1.7 U
Endosulfan sulfate	µg/kg	1.5 U	1.5 U	1.5 U
Endrin	µg/kg	2.2 U	2.3 U	2.2 U
Endrin aldehyde	µg/kg	1.5 U	1.6 U	1.5 U
Endrin ketone	µg/kg	1.0 U	1.1 U	1.0 U
gamma-BHC (lindane)	µg/kg	2.0 U	2.2 U	2.0 U
gamma-Chlordane	µg/kg	1.4 U	1.5 U	1.4 U
Heptachlor	µg/kg	1.8 U	1.9 U	1.8 U
Heptachlor epoxide	µg/kg	1.6 U	1.7 U	1.6 U
Methoxychlor	µg/kg	7.5 U	7.9 U	7.4 U
Toxaphene	µg/kg	28 U	30 U	28 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-99**	**SS-100**	**SS-100**
	Sample Name:	**SS-38443-110218-JC-099**	**SS-38443-110218-JC-100**	**SS-38443-110218-JC-121**
	Sample Date:	**11/02/2018**	**11/02/2018**	**11/02/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
				Duplicate
Parameters	**Unit**			
Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs)				
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
Total heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
Total hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
Total pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
Total tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Metals				
Aluminum	mg/kg	5200	5700	3800
Antimony	mg/kg	0.24 J	0.55 J	0.23 J
Arsenic	mg/kg	9.8	8.7	6.7
Barium	mg/kg	72	89	41
Beryllium	mg/kg	0.71	0.61	0.37
Cadmium	mg/kg	0.32	0.74	0.25
Calcium	mg/kg	99000	56000	90000
Chromium	mg/kg	11	15	16
Chromium III (trivalent)	mg/kg	11	15	16
Chromium VI (hexavalent)	mg/kg	0.28 U	0.29 U	0.28 U
Cobalt	mg/kg	4.2	5.2	3.9

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-99**	**SS-100**	**SS-100**
	Sample Name:	**SS-38443-110218-JC-099**	**SS-38443-110218-JC-100**	**SS-38443-110218-JC-121**
	Sample Date:	**11/02/2018**	**11/02/2018**	**11/02/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
				Duplicate
Parameters	**Unit**			
Metals				
Copper	mg/kg	13	45	15
Iron	mg/kg	16000	14000	11000
Lead	mg/kg	19 J	91 J	17 J
Lead - coarse fraction	mg/kg	--	23 J	--
Lead - fine fraction	mg/kg	--	42	--
Lead - total (calculated by fine/coarse fraction)	mg/kg	--	27	--
Magnesium	mg/kg	38000	24000	33000
Manganese	mg/kg	400 J	540 J	430 J
Mercury	mg/kg	0.037 J	0.083 J	0.024 U
Nickel	mg/kg	11	21	15
Potassium	mg/kg	680	790	610
Selenium	mg/kg	0.84 J	0.66 J	0.51 J
Silver	mg/kg	0.045 J	0.097 J	0.046 J
Sodium	mg/kg	140 J	87 J	100 J
Thallium	mg/kg	0.34	0.19 J	0.14 J
Vanadium	mg/kg	17	19	21
Zinc	mg/kg	55	140	61
General Chemistry				
Cyanide (total)	mg/kg	0.22 U	0.35 J	0.24 J
Soot carbon	mg/kg	--	--	--
Total organic carbon (TOC)	mg/kg	--	--	--

Notes:

R - Rejected
J - Estimated concentration
U - Not detected at the associated reporting limit
-- - Not applicable
UJ - Not detected; associated reporting limit is detected
PCBs - Polychlorinated Biphenyls

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-101**	**SS-105**	**SS-106**
	Sample Name:	**SS-38443-110218-JC-101**	**SS-38443-102618-JC-105**	**SS-38443-111918-JC-106**
	Sample Date:	**11/02/2018**	**10/26/2018**	**11/19/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/kg	0.80 U	--	--
1,1,2,2-Tetrachloroethane	µg/kg	1.4 UJ	--	--
1,1,2-Trichloroethane	µg/kg	1.1 U	--	--
1,1-Dichloroethane	µg/kg	0.68 U	--	--
1,1-Dichloroethene	µg/kg	0.88 U	--	--
1,2,4-Trichlorobenzene	µg/kg	0.56 U	--	--
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	3.5 U	--	--
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	0.75 U	--	--
1,2-Dichlorobenzene	µg/kg	1.1 U	--	--
1,2-Dichloroethane	µg/kg	0.75 U	--	--
1,2-Dichloropropane	µg/kg	0.83 U	--	--
1,3-Dichlorobenzene	µg/kg	0.80 U	--	--
1,4-Dichlorobenzene	µg/kg	0.86 U	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	3.5 U	--	--
2-Hexanone	µg/kg	4.0 U	--	--
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	3.6 U	--	--
Acetone	µg/kg	20 U	--	--
Benzene	µg/kg	0.68 U	--	--
Bromodichloromethane	µg/kg	0.66 U	--	--
Bromoform	µg/kg	2.3 U	--	--
Bromomethane (Methyl bromide)	µg/kg	0.96 U	--	--
Carbon disulfide	µg/kg	1.1 U	--	--
Carbon tetrachloride	µg/kg	3.2 U	--	--
Chlorobenzene	µg/kg	0.89 U	--	--
Chloroethane	µg/kg	1.2 U	--	--
Chloroform (Trichloromethane)	µg/kg	0.77 U	--	--
Chloromethane (Methyl chloride)	µg/kg	1.0 U	--	--
cis-1,2-Dichloroethene	µg/kg	0.63 U	--	--
cis-1,3-Dichloropropene	µg/kg	1.4 U	--	--
Cyclohexane	µg/kg	1.3 U	--	--
Dibromochloromethane	µg/kg	2.7 U	--	--
Dichlorodifluoromethane (CFC-12)	µg/kg	0.92 UJ	--	--
Ethylbenzene	µg/kg	1.0 U	--	--
Isopropyl benzene	µg/kg	0.81 U	--	--
Methyl acetate	µg/kg	3.3 U	--	--
Methyl cyclohexane	µg/kg	1.2 U	--	--
Methyl tert butyl ether (MTBE)	µg/kg	0.80 U	--	--
Methylene chloride	µg/kg	12 U	--	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-101**	**SS-105**	**SS-106**
	Sample Name:	**SS-38443-110218-JC-101**	**SS-38443-102618-JC-105**	**SS-38443-111918-JC-106**
	Sample Date:	**11/02/2018**	**10/26/2018**	**11/19/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
Styrene	µg/kg	1.1 U	--	--
Tetrachloroethene	µg/kg	0.71 U	--	--
Toluene	µg/kg	0.75 U	--	--
trans-1,2-Dichloroethene	µg/kg	0.45 U	--	--
trans-1,3-Dichloropropene	µg/kg	1.0 U	--	--
Trichloroethene	µg/kg	0.62 U	--	--
Trichlorofluoromethane (CFC-11)	µg/kg	1.1 U	--	--
Trifluorotrichloroethane (CFC-113)	µg/kg	1.2 U	--	--
Vinyl chloride	µg/kg	0.82 U	--	--
Xylenes (total)	µg/kg	1.5 U	--	--
Semivolatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	46 U	--	--
2,4,5-Trichlorophenol	µg/kg	320 U	--	--
2,4,6-Trichlorophenol	µg/kg	290 U	--	--
2,4-Dichlorophenol	µg/kg	200 U	--	--
2,4-Dimethylphenol	µg/kg	180 U	--	--
2,4-Dinitrophenol	µg/kg	650 U	--	--
2,4-Dinitrotoluene	µg/kg	280 U	--	--
2,6-Dinitrotoluene	µg/kg	260 U	--	--
2-Chloronaphthalene	µg/kg	64 U	--	--
2-Chlorophenol	µg/kg	46 U	--	--
2-Methylnaphthalene	µg/kg	39 J	--	--
2-Methylphenol	µg/kg	140 U	--	--
2-Nitroaniline	µg/kg	180 U	--	--
2-Nitrophenol	µg/kg	59 U	--	--
3&4-Methylphenol	µg/kg	130 U	--	--
3,3'-Dichlorobenzidine	µg/kg	200 U	--	--
3-Nitroaniline	µg/kg	220 U	--	--
4,6-Dinitro-2-methylphenol	µg/kg	370 U	--	--
4-Bromophenyl phenyl ether	µg/kg	64 U	--	--
4-Chloro-3-methylphenol	µg/kg	210 U	--	--
4-Chloroaniline	µg/kg	140 U	--	--
4-Chlorophenyl phenyl ether	µg/kg	64 U	--	--
4-Nitroaniline	µg/kg	270 U	--	--
4-Nitrophenol	µg/kg	430 U	--	--
Acenaphthene	µg/kg	170	--	--
Acenaphthylene	µg/kg	18 U	--	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-101**	**SS-105**	**SS-106**
	Sample Name:	**SS-38443-110218-JC-101**	**SS-38443-102618-JC-105**	**SS-38443-111918-JC-106**
	Sample Date:	**11/02/2018**	**10/26/2018**	**11/19/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Semivolatile Organic Compounds				
Acetophenone	µg/kg	50 U	--	--
Anthracene	µg/kg	580	--	--
Atrazine	µg/kg	160 U	--	--
Benzaldehyde	µg/kg	110 U	--	--
Benzo(a)anthracene	µg/kg	1900	--	--
Benzo(a)pyrene	µg/kg	1400	--	--
Benzo(b)fluoranthene	µg/kg	1900	--	--
Benzo(g,h,i)perylene	µg/kg	640	--	--
Benzo(k)fluoranthene	µg/kg	840	--	--
Biphenyl (1,1-Biphenyl)	µg/kg	78 U	--	--
bis(2-Chloroethoxy)methane	µg/kg	55 U	--	--
bis(2-Chloroethyl)ether	µg/kg	55 U	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	230 U	--	--
Butyl benzylphthalate (BBP)	µg/kg	100 U	--	--
Caprolactam	µg/kg	340 U	--	--
Carbazole	µg/kg	320	--	--
Chrysene	µg/kg	1900	--	--
Di-n-butylphthalate (DBP)	µg/kg	100 U	--	--
Di-n-octyl phthalate (DnOP)	µg/kg	130 U	--	--
Dibenz(a,h)anthracene	µg/kg	200	--	--
Dibenzofuran	µg/kg	100 J	--	--
Diethyl phthalate	µg/kg	140 U	--	--
Dimethyl phthalate	µg/kg	64 U	--	--
Fluoranthene	µg/kg	3800	--	--
Fluorene	µg/kg	220	--	--
Hexachlorobenzene	µg/kg	13 U	--	--
Hexachlorobutadiene	µg/kg	55 U	--	--
Hexachlorocyclopentadiene	µg/kg	280 U	--	--
Hexachloroethane	µg/kg	41 U	--	--
Indeno(1,2,3-cd)pyrene	µg/kg	650	--	--
Isophorone	µg/kg	55 U	--	--
N-Nitrosodi-n-propylamine	µg/kg	50 U	--	--
N-Nitrosodiphenylamine	µg/kg	55 U	--	--
Naphthalene	µg/kg	52 J	--	--
Nitrobenzene	µg/kg	59 U	--	--
Pentachlorophenol	µg/kg	260 U	--	--
Phenanthrene	µg/kg	2100	--	--
Phenol	µg/kg	37 U	--	--
Pyrene	µg/kg	2900	--	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-101**	**SS-105**	**SS-106**
	Sample Name:	**SS-38443-110218-JC-101**	**SS-38443-102618-JC-105**	**SS-38443-111918-JC-106**
	Sample Date:	**11/02/2018**	**10/26/2018**	**11/19/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Herbicides				
2,4,5-T	µg/kg	--	21 U	19 U
2,4,5-TP (Silvex)	µg/kg	--	23 U	20 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/kg	--	81 U	71 U
PCBs				
Aroclor-1016 (PCB-1016)	µg/kg	25 U	--	--
Aroclor-1221 (PCB-1221)	µg/kg	27 U	--	--
Aroclor-1232 (PCB-1232)	µg/kg	26 U	--	--
Aroclor-1242 (PCB-1242)	µg/kg	22 U	--	--
Aroclor-1248 (PCB-1248)	µg/kg	27 U	--	--
Aroclor-1254 (PCB-1254)	µg/kg	26 U	--	--
Aroclor-1260 (PCB-1260)	µg/kg	25 U	--	--
Pesticides				
4,4'-DDD	µg/kg	1.6 U	--	--
4,4'-DDE	µg/kg	1.7 U	--	--
4,4'-DDT	µg/kg	1.2 J	--	--
Aldrin	µg/kg	0.85 U	--	--
alpha-BHC	µg/kg	1.0 U	--	--
alpha-Chlordane	µg/kg	1.7 U	--	--
beta-BHC	µg/kg	1.9 U	--	--
delta-BHC	µg/kg	1.9 U	--	--
Dieldrin	µg/kg	1.2 U	--	--
Endosulfan I	µg/kg	1.3 U	--	--
Endosulfan II	µg/kg	1.6 U	--	--
Endosulfan sulfate	µg/kg	1.4 U	--	--
Endrin	µg/kg	2.1 U	--	--
Endrin aldehyde	µg/kg	1.4 U	--	--
Endrin ketone	µg/kg	0.98 U	--	--
gamma-BHC (lindane)	µg/kg	2.0 U	--	--
gamma-Chlordane	µg/kg	1.4 U	--	--
Heptachlor	µg/kg	1.7 U	--	--
Heptachlor epoxide	µg/kg	1.6 U	--	--
Methoxychlor	µg/kg	7.2 U	--	--
Toxaphene	µg/kg	28 U	--	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-101**	**SS-105**	**SS-106**
	Sample Name:	**SS-38443-110218-JC-101**	**SS-38443-102618-JC-105**	**SS-38443-111918-JC-106**
	Sample Date:	**11/02/2018**	**10/26/2018**	**11/19/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs)				
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
Total heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
Total hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
Total pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
Total tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Metals				
Aluminum	mg/kg	5100	--	--
Antimony	mg/kg	0.21 J	--	--
Arsenic	mg/kg	5.9	--	--
Barium	mg/kg	52	--	--
Beryllium	mg/kg	0.50	--	--
Cadmium	mg/kg	0.25	--	--
Calcium	mg/kg	61000	--	--
Chromium	mg/kg	33	--	--
Chromium III (trivalent)	mg/kg	33	--	--
Chromium VI (hexavalent)	mg/kg	0.28 U	--	--
Cobalt	mg/kg	4.2	--	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-101**	**SS-105**	**SS-106**
	Sample Name:	**SS-38443-110218-JC-101**	**SS-38443-102618-JC-105**	**SS-38443-111918-JC-106**
	Sample Date:	**11/02/2018**	**10/26/2018**	**11/19/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Metals				
Copper	mg/kg	17	--	--
Iron	mg/kg	12000	--	--
Lead	mg/kg	27 J	--	--
Lead - coarse fraction	mg/kg	--	--	--
Lead - fine fraction	mg/kg	--	--	--
Lead - total (calculated by fine/coarse fraction)	mg/kg	--	--	--
Magnesium	mg/kg	24000	--	--
Manganese	mg/kg	950 J	--	--
Mercury	mg/kg	0.033 J	--	--
Nickel	mg/kg	14	--	--
Potassium	mg/kg	620	--	--
Selenium	mg/kg	0.43 J	--	--
Silver	mg/kg	0.046 J	--	--
Sodium	mg/kg	75 J	--	--
Thallium	mg/kg	0.14 J	--	--
Vanadium	mg/kg	45	--	--
Zinc	mg/kg	86	--	--
General Chemistry				
Cyanide (total)	mg/kg	0.23 U	--	--
Soot carbon	mg/kg	--	--	--
Total organic carbon (TOC)	mg/kg	--	--	--

Notes:

R - Rejected
J - Estimated concentration
U - Not detected at the associated reporting limit
-- - Not applicable
UJ - Not detected; associated reporting limit is detected
PCBs - Polychlorinated Biphenyls

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-107**	**SS-108 (SS-22/TT-32)**	**SS-110 (SS-31/TT39)**
	Sample Name:	**SS-38443-111918-JC-107**	**SS-38443-111618-JC-108**	**SS-38443-111918-JC-110**
	Sample Date:	**11/19/2018**	**11/16/2018**	**11/19/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/kg	--	--	--
1,1,2,2-Tetrachloroethane	µg/kg	--	--	--
1,1,2-Trichloroethane	µg/kg	--	--	--
1,1-Dichloroethane	µg/kg	--	--	--
1,1-Dichloroethene	µg/kg	--	--	--
1,2,4-Trichlorobenzene	µg/kg	--	--	--
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	--	--	--
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	--	--	--
1,2-Dichlorobenzene	µg/kg	--	--	--
1,2-Dichloroethane	µg/kg	--	--	--
1,2-Dichloropropane	µg/kg	--	--	--
1,3-Dichlorobenzene	µg/kg	--	--	--
1,4-Dichlorobenzene	µg/kg	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	--	--	--
2-Hexanone	µg/kg	--	--	--
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	--	--	--
Acetone	µg/kg	--	--	--
Benzene	µg/kg	--	--	--
Bromodichloromethane	µg/kg	--	--	--
Bromoform	µg/kg	--	--	--
Bromomethane (Methyl bromide)	µg/kg	--	--	--
Carbon disulfide	µg/kg	--	--	--
Carbon tetrachloride	µg/kg	--	--	--
Chlorobenzene	µg/kg	--	--	--
Chloroethane	µg/kg	--	--	--
Chloroform (Trichloromethane)	µg/kg	--	--	--
Chloromethane (Methyl chloride)	µg/kg	--	--	--
cis-1,2-Dichloroethene	µg/kg	--	--	--
cis-1,3-Dichloropropene	µg/kg	--	--	--
Cyclohexane	µg/kg	--	--	--
Dibromochloromethane	µg/kg	--	--	--
Dichlorodifluoromethane (CFC-12)	µg/kg	--	--	--
Ethylbenzene	µg/kg	--	--	--
Isopropyl benzene	µg/kg	--	--	--
Methyl acetate	µg/kg	--	--	--
Methyl cyclohexane	µg/kg	--	--	--
Methyl tert butyl ether (MTBE)	µg/kg	--	--	--
Methylene chloride	µg/kg	--	--	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-107**	**SS-108 (SS-22/TT-32)**	**SS-110 (SS-31/TT39)**
	Sample Name:	**SS-38443-111918-JC-107**	**SS-38443-111618-JC-108**	**SS-38443-111918-JC-110**
	Sample Date:	**11/19/2018**	**11/16/2018**	**11/19/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
Styrene	µg/kg	--	--	--
Tetrachloroethene	µg/kg	--	--	--
Toluene	µg/kg	--	--	--
trans-1,2-Dichloroethene	µg/kg	--	--	--
trans-1,3-Dichloropropene	µg/kg	--	--	--
Trichloroethene	µg/kg	--	--	--
Trichlorofluoromethane (CFC-11)	µg/kg	--	--	--
Trifluorotrichloroethane (CFC-113)	µg/kg	--	--	--
Vinyl chloride	µg/kg	--	--	--
Xylenes (total)	µg/kg	--	--	--
Semivolatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	--	--	--
2,4,5-Trichlorophenol	µg/kg	--	--	--
2,4,6-Trichlorophenol	µg/kg	--	--	--
2,4-Dichlorophenol	µg/kg	--	--	--
2,4-Dimethylphenol	µg/kg	--	--	--
2,4-Dinitrophenol	µg/kg	--	--	--
2,4-Dinitrotoluene	µg/kg	--	--	--
2,6-Dinitrotoluene	µg/kg	--	--	--
2-Chloronaphthalene	µg/kg	--	--	--
2-Chlorophenol	µg/kg	--	--	--
2-Methylnaphthalene	µg/kg	--	--	--
2-Methylphenol	µg/kg	--	--	--
2-Nitroaniline	µg/kg	--	--	--
2-Nitrophenol	µg/kg	--	--	--
3&4-Methylphenol	µg/kg	--	--	--
3,3'-Dichlorobenzidine	µg/kg	--	--	--
3-Nitroaniline	µg/kg	--	--	--
4,6-Dinitro-2-methylphenol	µg/kg	--	--	--
4-Bromophenyl phenyl ether	µg/kg	--	--	--
4-Chloro-3-methylphenol	µg/kg	--	--	--
4-Chloroaniline	µg/kg	--	--	--
4-Chlorophenyl phenyl ether	µg/kg	--	--	--
4-Nitroaniline	µg/kg	--	--	--
4-Nitrophenol	µg/kg	--	--	--
Acenaphthene	µg/kg	--	--	--
Acenaphthylene	µg/kg	--	--	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-107**	**SS-108 (SS-22/TT-32)**	**SS-110 (SS-31/TT39)**
	Sample Name:	**SS-38443-111918-JC-107**	**SS-38443-111618-JC-108**	**SS-38443-111918-JC-110**
	Sample Date:	**11/19/2018**	**11/16/2018**	**11/19/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Semivolatile Organic Compounds				
Acetophenone	µg/kg	--	--	--
Anthracene	µg/kg	--	--	--
Atrazine	µg/kg	--	--	--
Benzaldehyde	µg/kg	--	--	--
Benzo(a)anthracene	µg/kg	--	--	--
Benzo(a)pyrene	µg/kg	--	--	--
Benzo(b)fluoranthene	µg/kg	--	--	--
Benzo(g,h,i)perylene	µg/kg	--	--	--
Benzo(k)fluoranthene	µg/kg	--	--	--
Biphenyl (1,1-Biphenyl)	µg/kg	--	--	--
bis(2-Chloroethoxy)methane	µg/kg	--	--	--
bis(2-Chloroethyl)ether	µg/kg	--	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	--	--	--
Butyl benzylphthalate (BBP)	µg/kg	--	--	--
Caprolactam	µg/kg	--	--	--
Carbazole	µg/kg	--	--	--
Chrysene	µg/kg	--	--	--
Di-n-butylphthalate (DBP)	µg/kg	--	--	--
Di-n-octyl phthalate (DnOP)	µg/kg	--	--	--
Dibenz(a,h)anthracene	µg/kg	--	--	--
Dibenzofuran	µg/kg	--	--	--
Diethyl phthalate	µg/kg	--	--	--
Dimethyl phthalate	µg/kg	--	--	--
Fluoranthene	µg/kg	--	--	--
Fluorene	µg/kg	--	--	--
Hexachlorobenzene	µg/kg	--	--	--
Hexachlorobutadiene	µg/kg	--	--	--
Hexachlorocyclopentadiene	µg/kg	--	--	--
Hexachloroethane	µg/kg	--	--	--
Indeno(1,2,3-cd)pyrene	µg/kg	--	--	--
Isophorone	µg/kg	--	--	--
N-Nitrosodi-n-propylamine	µg/kg	--	--	--
N-Nitrosodiphenylamine	µg/kg	--	--	--
Naphthalene	µg/kg	--	--	--
Nitrobenzene	µg/kg	--	--	--
Pentachlorophenol	µg/kg	--	--	--
Phenanthrene	µg/kg	--	--	--
Phenol	µg/kg	--	--	--
Pyrene	µg/kg	--	--	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-107**	**SS-108 (SS-22/TT-32)**	**SS-110 (SS-31/TT39)**
	Sample Name:	**SS-38443-111918-JC-107**	**SS-38443-111618-JC-108**	**SS-38443-111918-JC-110**
	Sample Date:	**11/19/2018**	**11/16/2018**	**11/19/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Herbicides				
2,4,5-T	µg/kg	16 U	17 U	15 U
2,4,5-TP (Silvex)	µg/kg	17 U	18 U	16 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/kg	59 U	62 U	55 U
PCBs				
Aroclor-1016 (PCB-1016)	µg/kg	--	--	--
Aroclor-1221 (PCB-1221)	µg/kg	--	--	--
Aroclor-1232 (PCB-1232)	µg/kg	--	--	--
Aroclor-1242 (PCB-1242)	µg/kg	--	--	--
Aroclor-1248 (PCB-1248)	µg/kg	--	--	--
Aroclor-1254 (PCB-1254)	µg/kg	--	--	--
Aroclor-1260 (PCB-1260)	µg/kg	--	--	--
Pesticides				
4,4'-DDD	µg/kg	--	--	--
4,4'-DDE	µg/kg	--	--	--
4,4'-DDT	µg/kg	--	--	--
Aldrin	µg/kg	--	--	--
alpha-BHC	µg/kg	--	--	--
alpha-Chlordane	µg/kg	--	--	--
beta-BHC	µg/kg	--	--	--
delta-BHC	µg/kg	--	--	--
Dieldrin	µg/kg	--	--	--
Endosulfan I	µg/kg	--	--	--
Endosulfan II	µg/kg	--	--	--
Endosulfan sulfate	µg/kg	--	--	--
Endrin	µg/kg	--	--	--
Endrin aldehyde	µg/kg	--	--	--
Endrin ketone	µg/kg	--	--	--
gamma-BHC (lindane)	µg/kg	--	--	--
gamma-Chlordane	µg/kg	--	--	--
Heptachlor	µg/kg	--	--	--
Heptachlor epoxide	µg/kg	--	--	--
Methoxychlor	µg/kg	--	--	--
Toxaphene	µg/kg	--	--	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-107**	**SS-108 (SS-22/TT-32)**	**SS-110 (SS-31/TT39)**
	Sample Name:	**SS-38443-111918-JC-107**	**SS-38443-111618-JC-108**	**SS-38443-111918-JC-110**
	Sample Date:	**11/19/2018**	**11/16/2018**	**11/19/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs)				
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
Total heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
Total hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
Total pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
Total tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Metals				
Aluminum	mg/kg	--	--	--
Antimony	mg/kg	--	--	--
Arsenic	mg/kg	--	--	--
Barium	mg/kg	--	--	--
Beryllium	mg/kg	--	--	--
Cadmium	mg/kg	--	--	--
Calcium	mg/kg	--	--	--
Chromium	mg/kg	--	--	--
Chromium III (trivalent)	mg/kg	--	--	--
Chromium VI (hexavalent)	mg/kg	--	--	--
Cobalt	mg/kg	--	--	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-107**	**SS-108 (SS-22/TT-32)**	**SS-110 (SS-31/TT39)**
	Sample Name:	**SS-38443-111918-JC-107**	**SS-38443-111618-JC-108**	**SS-38443-111918-JC-110**
	Sample Date:	**11/19/2018**	**11/16/2018**	**11/19/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Metals				
Copper	mg/kg	--	--	--
Iron	mg/kg	--	--	--
Lead	mg/kg	--	--	--
Lead - coarse fraction	mg/kg	--	--	--
Lead - fine fraction	mg/kg	--	--	--
Lead - total (calculated by fine/coarse fraction)	mg/kg	--	--	--
Magnesium	mg/kg	--	--	--
Manganese	mg/kg	--	--	--
Mercury	mg/kg	--	--	--
Nickel	mg/kg	--	--	--
Potassium	mg/kg	--	--	--
Selenium	mg/kg	--	--	--
Silver	mg/kg	--	--	--
Sodium	mg/kg	--	--	--
Thallium	mg/kg	--	--	--
Vanadium	mg/kg	--	--	--
Zinc	mg/kg	--	--	--
General Chemistry				
Cyanide (total)	mg/kg	--	--	--
Soot carbon	mg/kg	--	--	--
Total organic carbon (TOC)	mg/kg	--	--	--

Notes:

R - Rejected
J - Estimated concentration
U - Not detected at the associated reporting limit
-- - Not applicable
UJ - Not detected; associated reporting limit is detected
PCBs - Polychlorinated Biphenyls

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-110 (SS-31/TT39)**	**SS-111 (SS-30/TT-38)**	**SS-113 (SS-35/TP-15)**
	Sample Name:	**SS-38443-111918-JC-126**	**SS-38443-111618-JC-111**	**SS-38443-111618-JC-113**
	Sample Date:	**11/19/2018**	**11/16/2018**	**11/16/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
		Duplicate		
Parameters	**Unit**			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/kg	--	--	--
1,1,2,2-Tetrachloroethane	µg/kg	--	--	--
1,1,2-Trichloroethane	µg/kg	--	--	--
1,1-Dichloroethane	µg/kg	--	--	--
1,1-Dichloroethene	µg/kg	--	--	--
1,2,4-Trichlorobenzene	µg/kg	--	--	--
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	--	--	--
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	--	--	--
1,2-Dichlorobenzene	µg/kg	--	--	--
1,2-Dichloroethane	µg/kg	--	--	--
1,2-Dichloropropane	µg/kg	--	--	--
1,3-Dichlorobenzene	µg/kg	--	--	--
1,4-Dichlorobenzene	µg/kg	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	--	--	--
2-Hexanone	µg/kg	--	--	--
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	--	--	--
Acetone	µg/kg	--	--	--
Benzene	µg/kg	--	--	--
Bromodichloromethane	µg/kg	--	--	--
Bromoform	µg/kg	--	--	--
Bromomethane (Methyl bromide)	µg/kg	--	--	--
Carbon disulfide	µg/kg	--	--	--
Carbon tetrachloride	µg/kg	--	--	--
Chlorobenzene	µg/kg	--	--	--
Chloroethane	µg/kg	--	--	--
Chloroform (Trichloromethane)	µg/kg	--	--	--
Chloromethane (Methyl chloride)	µg/kg	--	--	--
cis-1,2-Dichloroethene	µg/kg	--	--	--
cis-1,3-Dichloropropene	µg/kg	--	--	--
Cyclohexane	µg/kg	--	--	--
Dibromochloromethane	µg/kg	--	--	--
Dichlorodifluoromethane (CFC-12)	µg/kg	--	--	--
Ethylbenzene	µg/kg	--	--	--
Isopropyl benzene	µg/kg	--	--	--
Methyl acetate	µg/kg	--	--	--
Methyl cyclohexane	µg/kg	--	--	--
Methyl tert butyl ether (MTBE)	µg/kg	--	--	--
Methylene chloride	µg/kg	--	--	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-110 (SS-31/TT39)**	**SS-111 (SS-30/TT-38)**	**SS-113 (SS-35/TP-15)**
	Sample Name:	**SS-38443-111918-JC-126**	**SS-38443-111618-JC-111**	**SS-38443-111618-JC-113**
	Sample Date:	**11/19/2018**	**11/16/2018**	**11/16/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
		Duplicate		
Parameters	**Unit**			
Volatile Organic Compounds				
Styrene	µg/kg	--	--	--
Tetrachloroethene	µg/kg	--	--	--
Toluene	µg/kg	--	--	--
trans-1,2-Dichloroethene	µg/kg	--	--	--
trans-1,3-Dichloropropene	µg/kg	--	--	--
Trichloroethene	µg/kg	--	--	--
Trichlorofluoromethane (CFC-11)	µg/kg	--	--	--
Trifluorotrichloroethane (CFC-113)	µg/kg	--	--	--
Vinyl chloride	µg/kg	--	--	--
Xylenes (total)	µg/kg	--	--	--
Semivolatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	--	--	--
2,4,5-Trichlorophenol	µg/kg	--	--	--
2,4,6-Trichlorophenol	µg/kg	--	--	--
2,4-Dichlorophenol	µg/kg	--	--	--
2,4-Dimethylphenol	µg/kg	--	--	--
2,4-Dinitrophenol	µg/kg	--	--	--
2,4-Dinitrotoluene	µg/kg	--	--	--
2,6-Dinitrotoluene	µg/kg	--	--	--
2-Chloronaphthalene	µg/kg	--	--	--
2-Chlorophenol	µg/kg	--	--	--
2-Methylnaphthalene	µg/kg	--	--	--
2-Methylphenol	µg/kg	--	--	--
2-Nitroaniline	µg/kg	--	--	--
2-Nitrophenol	µg/kg	--	--	--
3&4-Methylphenol	µg/kg	--	--	--
3,3'-Dichlorobenzidine	µg/kg	--	--	--
3-Nitroaniline	µg/kg	--	--	--
4,6-Dinitro-2-methylphenol	µg/kg	--	--	--
4-Bromophenyl phenyl ether	µg/kg	--	--	--
4-Chloro-3-methylphenol	µg/kg	--	--	--
4-Chloroaniline	µg/kg	--	--	--
4-Chlorophenyl phenyl ether	µg/kg	--	--	--
4-Nitroaniline	µg/kg	--	--	--
4-Nitrophenol	µg/kg	--	--	--
Acenaphthene	µg/kg	--	--	--
Acenaphthylene	µg/kg	--	--	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-110 (SS-31/TT39)**	**SS-111 (SS-30/TT-38)**	**SS-113 (SS-35/TP-15)**
	Sample Name:	**SS-38443-111918-JC-126**	**SS-38443-111618-JC-111**	**SS-38443-111618-JC-113**
	Sample Date:	**11/19/2018**	**11/16/2018**	**11/16/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
		Duplicate		
Parameters	**Unit**			
Semivolatile Organic Compounds				
Acetophenone	µg/kg	--	--	--
Anthracene	µg/kg	--	--	--
Atrazine	µg/kg	--	--	--
Benzaldehyde	µg/kg	--	--	--
Benzo(a)anthracene	µg/kg	--	--	--
Benzo(a)pyrene	µg/kg	--	--	--
Benzo(b)fluoranthene	µg/kg	--	--	--
Benzo(g,h,i)perylene	µg/kg	--	--	--
Benzo(k)fluoranthene	µg/kg	--	--	--
Biphenyl (1,1-Biphenyl)	µg/kg	--	--	--
bis(2-Chloroethoxy)methane	µg/kg	--	--	--
bis(2-Chloroethyl)ether	µg/kg	--	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	--	--	--
Butyl benzylphthalate (BBP)	µg/kg	--	--	--
Caprolactam	µg/kg	--	--	--
Carbazole	µg/kg	--	--	--
Chrysene	µg/kg	--	--	--
Di-n-butylphthalate (DBP)	µg/kg	--	--	--
Di-n-octyl phthalate (DnOP)	µg/kg	--	--	--
Dibenz(a,h)anthracene	µg/kg	--	--	--
Dibenzofuran	µg/kg	--	--	--
Diethyl phthalate	µg/kg	--	--	--
Dimethyl phthalate	µg/kg	--	--	--
Fluoranthene	µg/kg	--	--	--
Fluorene	µg/kg	--	--	--
Hexachlorobenzene	µg/kg	--	--	--
Hexachlorobutadiene	µg/kg	--	--	--
Hexachlorocyclopentadiene	µg/kg	--	--	--
Hexachloroethane	µg/kg	--	--	--
Indeno(1,2,3-cd)pyrene	µg/kg	--	--	--
Isophorone	µg/kg	--	--	--
N-Nitrosodi-n-propylamine	µg/kg	--	--	--
N-Nitrosodiphenylamine	µg/kg	--	--	--
Naphthalene	µg/kg	--	--	--
Nitrobenzene	µg/kg	--	--	--
Pentachlorophenol	µg/kg	--	--	--
Phenanthrene	µg/kg	--	--	--
Phenol	µg/kg	--	--	--
Pyrene	µg/kg	--	--	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-110 (SS-31/TT39)**	**SS-111 (SS-30/TT-38)**	**SS-113 (SS-35/TP-15)**
	Sample Name:	**SS-38443-111918-JC-126**	**SS-38443-111618-JC-111**	**SS-38443-111618-JC-113**
	Sample Date:	**11/19/2018**	**11/16/2018**	**11/16/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
		Duplicate		
Parameters	**Unit**			
Herbicides				
2,4,5-T	µg/kg	14 U	16 U	16 U
2,4,5-TP (Silvex)	µg/kg	15 U	17 U	18 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/kg	51 U	60 U	61 U
PCBs				
Aroclor-1016 (PCB-1016)	µg/kg	--	--	--
Aroclor-1221 (PCB-1221)	µg/kg	--	--	--
Aroclor-1232 (PCB-1232)	µg/kg	--	--	--
Aroclor-1242 (PCB-1242)	µg/kg	--	--	--
Aroclor-1248 (PCB-1248)	µg/kg	--	--	--
Aroclor-1254 (PCB-1254)	µg/kg	--	--	--
Aroclor-1260 (PCB-1260)	µg/kg	--	--	--
Pesticides				
4,4'-DDD	µg/kg	--	--	--
4,4'-DDE	µg/kg	--	--	--
4,4'-DDT	µg/kg	--	--	--
Aldrin	µg/kg	--	--	--
alpha-BHC	µg/kg	--	--	--
alpha-Chlordane	µg/kg	--	--	--
beta-BHC	µg/kg	--	--	--
delta-BHC	µg/kg	--	--	--
Dieldrin	µg/kg	--	--	--
Endosulfan I	µg/kg	--	--	--
Endosulfan II	µg/kg	--	--	--
Endosulfan sulfate	µg/kg	--	--	--
Endrin	µg/kg	--	--	--
Endrin aldehyde	µg/kg	--	--	--
Endrin ketone	µg/kg	--	--	--
gamma-BHC (lindane)	µg/kg	--	--	--
gamma-Chlordane	µg/kg	--	--	--
Heptachlor	µg/kg	--	--	--
Heptachlor epoxide	µg/kg	--	--	--
Methoxychlor	µg/kg	--	--	--
Toxaphene	µg/kg	--	--	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-110 (SS-31/TT39)**	**SS-111 (SS-30/TT-38)**	**SS-113 (SS-35/TP-15)**
	Sample Name:	**SS-38443-111918-JC-126**	**SS-38443-111618-JC-111**	**SS-38443-111618-JC-113**
	Sample Date:	**11/19/2018**	**11/16/2018**	**11/16/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
		Duplicate		
Parameters	**Unit**			
Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs)				
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
Total heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
Total hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
Total pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
Total tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Metals				
Aluminum	mg/kg	--	--	--
Antimony	mg/kg	--	--	--
Arsenic	mg/kg	--	--	--
Barium	mg/kg	--	--	--
Beryllium	mg/kg	--	--	--
Cadmium	mg/kg	--	--	--
Calcium	mg/kg	--	--	--
Chromium	mg/kg	--	--	--
Chromium III (trivalent)	mg/kg	--	--	--
Chromium VI (hexavalent)	mg/kg	--	--	--
Cobalt	mg/kg	--	--	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-110 (SS-31/TT39)**	**SS-111 (SS-30/TT-38)**	**SS-113 (SS-35/TP-15)**
	Sample Name:	**SS-38443-111918-JC-126**	**SS-38443-111618-JC-111**	**SS-38443-111618-JC-113**
	Sample Date:	**11/19/2018**	**11/16/2018**	**11/16/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
		Duplicate		
Parameters	**Unit**			
Metals				
Copper	mg/kg	--	--	--
Iron	mg/kg	--	--	--
Lead	mg/kg	--	--	--
Lead - coarse fraction	mg/kg	--	--	--
Lead - fine fraction	mg/kg	--	--	--
Lead - total (calculated by fine/coarse fraction)	mg/kg	--	--	--
Magnesium	mg/kg	--	--	--
Manganese	mg/kg	--	--	--
Mercury	mg/kg	--	--	--
Nickel	mg/kg	--	--	--
Potassium	mg/kg	--	--	--
Selenium	mg/kg	--	--	--
Silver	mg/kg	--	--	--
Sodium	mg/kg	--	--	--
Thallium	mg/kg	--	--	--
Vanadium	mg/kg	--	--	--
Zinc	mg/kg	--	--	--
General Chemistry				
Cyanide (total)	mg/kg	--	--	--
Soot carbon	mg/kg	--	--	--
Total organic carbon (TOC)	mg/kg	--	--	--

Notes:

R - Rejected
J - Estimated concentration
U - Not detected at the associated reporting limit
-- - Not applicable
UJ - Not detected; associated reporting limit is detected
PCBs - Polychlorinated Biphenyls

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-122**	**SS-124**	**SS-125**
	Sample Name:	**SS-38443-112018-JC-122**	**SS-38443-112718-AS-124**	**SS-38443-102918-JC-125**
	Sample Date:	**11/20/2018**	**11/27/2018**	**10/29/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/kg	--	--	--
1,1,2,2-Tetrachloroethane	µg/kg	--	--	--
1,1,2-Trichloroethane	µg/kg	--	--	--
1,1-Dichloroethane	µg/kg	--	--	--
1,1-Dichloroethene	µg/kg	--	--	--
1,2,4-Trichlorobenzene	µg/kg	--	--	--
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	--	--	--
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	--	--	--
1,2-Dichlorobenzene	µg/kg	--	--	--
1,2-Dichloroethane	µg/kg	--	--	--
1,2-Dichloropropane	µg/kg	--	--	--
1,3-Dichlorobenzene	µg/kg	--	--	--
1,4-Dichlorobenzene	µg/kg	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	--	--	--
2-Hexanone	µg/kg	--	--	--
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	--	--	--
Acetone	µg/kg	--	--	--
Benzene	µg/kg	--	--	--
Bromodichloromethane	µg/kg	--	--	--
Bromoform	µg/kg	--	--	--
Bromomethane (Methyl bromide)	µg/kg	--	--	--
Carbon disulfide	µg/kg	--	--	--
Carbon tetrachloride	µg/kg	--	--	--
Chlorobenzene	µg/kg	--	--	--
Chloroethane	µg/kg	--	--	--
Chloroform (Trichloromethane)	µg/kg	--	--	--
Chloromethane (Methyl chloride)	µg/kg	--	--	--
cis-1,2-Dichloroethene	µg/kg	--	--	--
cis-1,3-Dichloropropene	µg/kg	--	--	--
Cyclohexane	µg/kg	--	--	--
Dibromochloromethane	µg/kg	--	--	--
Dichlorodifluoromethane (CFC-12)	µg/kg	--	--	--
Ethylbenzene	µg/kg	--	--	--
Isopropyl benzene	µg/kg	--	--	--
Methyl acetate	µg/kg	--	--	--
Methyl cyclohexane	µg/kg	--	--	--
Methyl tert butyl ether (MTBE)	µg/kg	--	--	--
Methylene chloride	µg/kg	--	--	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-122**	**SS-124**	**SS-125**
	Sample Name:	**SS-38443-112018-JC-122**	**SS-38443-112718-AS-124**	**SS-38443-102918-JC-125**
	Sample Date:	**11/20/2018**	**11/27/2018**	**10/29/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
Styrene	µg/kg	--	--	--
Tetrachloroethene	µg/kg	--	--	--
Toluene	µg/kg	--	--	--
trans-1,2-Dichloroethene	µg/kg	--	--	--
trans-1,3-Dichloropropene	µg/kg	--	--	--
Trichloroethene	µg/kg	--	--	--
Trichlorofluoromethane (CFC-11)	µg/kg	--	--	--
Trifluorotrichloroethane (CFC-113)	µg/kg	--	--	--
Vinyl chloride	µg/kg	--	--	--
Xylenes (total)	µg/kg	--	--	--
Semivolatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	--	--	--
2,4,5-Trichlorophenol	µg/kg	--	--	--
2,4,6-Trichlorophenol	µg/kg	--	--	--
2,4-Dichlorophenol	µg/kg	--	--	--
2,4-Dimethylphenol	µg/kg	--	--	--
2,4-Dinitrophenol	µg/kg	--	--	--
2,4-Dinitrotoluene	µg/kg	--	--	--
2,6-Dinitrotoluene	µg/kg	--	--	--
2-Chloronaphthalene	µg/kg	--	--	--
2-Chlorophenol	µg/kg	--	--	--
2-Methylnaphthalene	µg/kg	--	--	--
2-Methylphenol	µg/kg	--	--	--
2-Nitroaniline	µg/kg	--	--	--
2-Nitrophenol	µg/kg	--	--	--
3&4-Methylphenol	µg/kg	--	--	--
3,3'-Dichlorobenzidine	µg/kg	--	--	--
3-Nitroaniline	µg/kg	--	--	--
4,6-Dinitro-2-methylphenol	µg/kg	--	--	--
4-Bromophenyl phenyl ether	µg/kg	--	--	--
4-Chloro-3-methylphenol	µg/kg	--	--	--
4-Chloroaniline	µg/kg	--	--	--
4-Chlorophenyl phenyl ether	µg/kg	--	--	--
4-Nitroaniline	µg/kg	--	--	--
4-Nitrophenol	µg/kg	--	--	--
Acenaphthene	µg/kg	--	--	--
Acenaphthylene	µg/kg	--	--	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-122**	**SS-124**	**SS-125**
	Sample Name:	**SS-38443-112018-JC-122**	**SS-38443-112718-AS-124**	**SS-38443-102918-JC-125**
	Sample Date:	**11/20/2018**	**11/27/2018**	**10/29/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Semivolatile Organic Compounds				
Acetophenone	µg/kg	--	--	--
Anthracene	µg/kg	--	--	--
Atrazine	µg/kg	--	--	--
Benzaldehyde	µg/kg	--	--	--
Benzo(a)anthracene	µg/kg	--	--	--
Benzo(a)pyrene	µg/kg	--	--	--
Benzo(b)fluoranthene	µg/kg	--	--	--
Benzo(g,h,i)perylene	µg/kg	--	--	--
Benzo(k)fluoranthene	µg/kg	--	--	--
Biphenyl (1,1-Biphenyl)	µg/kg	--	--	--
bis(2-Chloroethoxy)methane	µg/kg	--	--	--
bis(2-Chloroethyl)ether	µg/kg	--	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	--	--	--
Butyl benzylphthalate (BBP)	µg/kg	--	--	--
Caprolactam	µg/kg	--	--	--
Carbazole	µg/kg	--	--	--
Chrysene	µg/kg	--	--	--
Di-n-butylphthalate (DBP)	µg/kg	--	--	--
Di-n-octyl phthalate (DnOP)	µg/kg	--	--	--
Dibenz(a,h)anthracene	µg/kg	--	--	--
Dibenzofuran	µg/kg	--	--	--
Diethyl phthalate	µg/kg	--	--	--
Dimethyl phthalate	µg/kg	--	--	--
Fluoranthene	µg/kg	--	--	--
Fluorene	µg/kg	--	--	--
Hexachlorobenzene	µg/kg	--	--	--
Hexachlorobutadiene	µg/kg	--	--	--
Hexachlorocyclopentadiene	µg/kg	--	--	--
Hexachloroethane	µg/kg	--	--	--
Indeno(1,2,3-cd)pyrene	µg/kg	--	--	--
Isophorone	µg/kg	--	--	--
N-Nitrosodi-n-propylamine	µg/kg	--	--	--
N-Nitrosodiphenylamine	µg/kg	--	--	--
Naphthalene	µg/kg	--	--	--
Nitrobenzene	µg/kg	--	--	--
Pentachlorophenol	µg/kg	--	--	--
Phenanthrene	µg/kg	--	--	--
Phenol	µg/kg	--	--	--
Pyrene	µg/kg	--	--	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-122**	**SS-124**	**SS-125**
	Sample Name:	**SS-38443-112018-JC-122**	**SS-38443-112718-AS-124**	**SS-38443-102918-JC-125**
	Sample Date:	**11/20/2018**	**11/27/2018**	**10/29/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Herbicides				
2,4,5-T	µg/kg	17 U	15 U	15 U
2,4,5-TP (Silvex)	µg/kg	18 U	16 U	16 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/kg	64 U	55 U	57 U
PCBs				
Aroclor-1016 (PCB-1016)	µg/kg	--	--	--
Aroclor-1221 (PCB-1221)	µg/kg	--	--	--
Aroclor-1232 (PCB-1232)	µg/kg	--	--	--
Aroclor-1242 (PCB-1242)	µg/kg	--	--	--
Aroclor-1248 (PCB-1248)	µg/kg	--	--	--
Aroclor-1254 (PCB-1254)	µg/kg	--	--	--
Aroclor-1260 (PCB-1260)	µg/kg	--	--	--
Pesticides				
4,4'-DDD	µg/kg	--	--	--
4,4'-DDE	µg/kg	--	--	--
4,4'-DDT	µg/kg	--	--	--
Aldrin	µg/kg	--	--	--
alpha-BHC	µg/kg	--	--	--
alpha-Chlordane	µg/kg	--	--	--
beta-BHC	µg/kg	--	--	--
delta-BHC	µg/kg	--	--	--
Dieldrin	µg/kg	--	--	--
Endosulfan I	µg/kg	--	--	--
Endosulfan II	µg/kg	--	--	--
Endosulfan sulfate	µg/kg	--	--	--
Endrin	µg/kg	--	--	--
Endrin aldehyde	µg/kg	--	--	--
Endrin ketone	µg/kg	--	--	--
gamma-BHC (lindane)	µg/kg	--	--	--
gamma-Chlordane	µg/kg	--	--	--
Heptachlor	µg/kg	--	--	--
Heptachlor epoxide	µg/kg	--	--	--
Methoxychlor	µg/kg	--	--	--
Toxaphene	µg/kg	--	--	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-122**	**SS-124**	**SS-125**
	Sample Name:	**SS-38443-112018-JC-122**	**SS-38443-112718-AS-124**	**SS-38443-102918-JC-125**
	Sample Date:	**11/20/2018**	**11/27/2018**	**10/29/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs)				
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
Total heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
Total hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
Total pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
Total tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Metals				
Aluminum	mg/kg	--	--	--
Antimony	mg/kg	--	--	--
Arsenic	mg/kg	--	--	--
Barium	mg/kg	--	--	--
Beryllium	mg/kg	--	--	--
Cadmium	mg/kg	--	--	--
Calcium	mg/kg	--	--	--
Chromium	mg/kg	--	--	--
Chromium III (trivalent)	mg/kg	--	--	--
Chromium VI (hexavalent)	mg/kg	--	--	--
Cobalt	mg/kg	--	--	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-122**	**SS-124**	**SS-125**
	Sample Name:	**SS-38443-112018-JC-122**	**SS-38443-112718-AS-124**	**SS-38443-102918-JC-125**
	Sample Date:	**11/20/2018**	**11/27/2018**	**10/29/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Metals				
Copper	mg/kg	--	--	--
Iron	mg/kg	--	--	--
Lead	mg/kg	--	--	--
Lead - coarse fraction	mg/kg	--	--	--
Lead - fine fraction	mg/kg	--	--	--
Lead - total (calculated by fine/coarse fraction)	mg/kg	--	--	--
Magnesium	mg/kg	--	--	--
Manganese	mg/kg	--	--	--
Mercury	mg/kg	--	--	--
Nickel	mg/kg	--	--	--
Potassium	mg/kg	--	--	--
Selenium	mg/kg	--	--	--
Silver	mg/kg	--	--	--
Sodium	mg/kg	--	--	--
Thallium	mg/kg	--	--	--
Vanadium	mg/kg	--	--	--
Zinc	mg/kg	--	--	--
General Chemistry				
Cyanide (total)	mg/kg	--	--	--
Soot carbon	mg/kg	--	--	--
Total organic carbon (TOC)	mg/kg	--	--	--

Notes:

R - Rejected
J - Estimated concentration
U - Not detected at the associated reporting limit
-- - Not applicable
UJ - Not detected; associated reporting limit is detected
PCBs - Polychlorinated Biphenyls

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-127**	**SS-128**	**SS-129**
	Sample Name:	**SS-38443-122018-JC-127**	**SS-38443-122018-JC-128**	**SS-38443-122018-JC-129**
	Sample Date:	**12/20/2018**	**12/20/2018**	**12/20/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/kg	--	--	--
1,1,2,2-Tetrachloroethane	µg/kg	--	--	--
1,1,2-Trichloroethane	µg/kg	--	--	--
1,1-Dichloroethane	µg/kg	--	--	--
1,1-Dichloroethene	µg/kg	--	--	--
1,2,4-Trichlorobenzene	µg/kg	--	--	--
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	--	--	--
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	--	--	--
1,2-Dichlorobenzene	µg/kg	--	--	--
1,2-Dichloroethane	µg/kg	--	--	--
1,2-Dichloropropane	µg/kg	--	--	--
1,3-Dichlorobenzene	µg/kg	--	--	--
1,4-Dichlorobenzene	µg/kg	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	--	--	--
2-Hexanone	µg/kg	--	--	--
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	--	--	--
Acetone	µg/kg	--	--	--
Benzene	µg/kg	--	--	--
Bromodichloromethane	µg/kg	--	--	--
Bromoform	µg/kg	--	--	--
Bromomethane (Methyl bromide)	µg/kg	--	--	--
Carbon disulfide	µg/kg	--	--	--
Carbon tetrachloride	µg/kg	--	--	--
Chlorobenzene	µg/kg	--	--	--
Chloroethane	µg/kg	--	--	--
Chloroform (Trichloromethane)	µg/kg	--	--	--
Chloromethane (Methyl chloride)	µg/kg	--	--	--
cis-1,2-Dichloroethene	µg/kg	--	--	--
cis-1,3-Dichloropropene	µg/kg	--	--	--
Cyclohexane	µg/kg	--	--	--
Dibromochloromethane	µg/kg	--	--	--
Dichlorodifluoromethane (CFC-12)	µg/kg	--	--	--
Ethylbenzene	µg/kg	--	--	--
Isopropyl benzene	µg/kg	--	--	--
Methyl acetate	µg/kg	--	--	--
Methyl cyclohexane	µg/kg	--	--	--
Methyl tert butyl ether (MTBE)	µg/kg	--	--	--
Methylene chloride	µg/kg	--	--	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-127**	**SS-128**	**SS-129**
	Sample Name:	**SS-38443-122018-JC-127**	**SS-38443-122018-JC-128**	**SS-38443-122018-JC-129**
	Sample Date:	**12/20/2018**	**12/20/2018**	**12/20/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
Styrene	µg/kg	--	--	--
Tetrachloroethene	µg/kg	--	--	--
Toluene	µg/kg	--	--	--
trans-1,2-Dichloroethene	µg/kg	--	--	--
trans-1,3-Dichloropropene	µg/kg	--	--	--
Trichloroethene	µg/kg	--	--	--
Trichlorofluoromethane (CFC-11)	µg/kg	--	--	--
Trifluorotrichloroethane (CFC-113)	µg/kg	--	--	--
Vinyl chloride	µg/kg	--	--	--
Xylenes (total)	µg/kg	--	--	--
Semivolatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	--	--	--
2,4,5-Trichlorophenol	µg/kg	--	--	--
2,4,6-Trichlorophenol	µg/kg	--	--	--
2,4-Dichlorophenol	µg/kg	--	--	--
2,4-Dimethylphenol	µg/kg	--	--	--
2,4-Dinitrophenol	µg/kg	--	--	--
2,4-Dinitrotoluene	µg/kg	--	--	--
2,6-Dinitrotoluene	µg/kg	--	--	--
2-Chloronaphthalene	µg/kg	--	--	--
2-Chlorophenol	µg/kg	--	--	--
2-Methylnaphthalene	µg/kg	--	--	--
2-Methylphenol	µg/kg	--	--	--
2-Nitroaniline	µg/kg	--	--	--
2-Nitrophenol	µg/kg	--	--	--
3&4-Methylphenol	µg/kg	--	--	--
3,3'-Dichlorobenzidine	µg/kg	--	--	--
3-Nitroaniline	µg/kg	--	--	--
4,6-Dinitro-2-methylphenol	µg/kg	--	--	--
4-Bromophenyl phenyl ether	µg/kg	--	--	--
4-Chloro-3-methylphenol	µg/kg	--	--	--
4-Chloroaniline	µg/kg	--	--	--
4-Chlorophenyl phenyl ether	µg/kg	--	--	--
4-Nitroaniline	µg/kg	--	--	--
4-Nitrophenol	µg/kg	--	--	--
Acenaphthene	µg/kg	--	--	--
Acenaphthylene	µg/kg	--	--	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-127**	**SS-128**	**SS-129**
	Sample Name:	**SS-38443-122018-JC-127**	**SS-38443-122018-JC-128**	**SS-38443-122018-JC-129**
	Sample Date:	**12/20/2018**	**12/20/2018**	**12/20/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Semivolatile Organic Compounds				
Acetophenone	µg/kg	--	--	--
Anthracene	µg/kg	--	--	--
Atrazine	µg/kg	--	--	--
Benzaldehyde	µg/kg	--	--	--
Benzo(a)anthracene	µg/kg	--	--	--
Benzo(a)pyrene	µg/kg	--	--	--
Benzo(b)fluoranthene	µg/kg	--	--	--
Benzo(g,h,i)perylene	µg/kg	--	--	--
Benzo(k)fluoranthene	µg/kg	--	--	--
Biphenyl (1,1-Biphenyl)	µg/kg	--	--	--
bis(2-Chloroethoxy)methane	µg/kg	--	--	--
bis(2-Chloroethyl)ether	µg/kg	--	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	--	--	--
Butyl benzylphthalate (BBP)	µg/kg	--	--	--
Caprolactam	µg/kg	--	--	--
Carbazole	µg/kg	--	--	--
Chrysene	µg/kg	--	--	--
Di-n-butylphthalate (DBP)	µg/kg	--	--	--
Di-n-octyl phthalate (DnOP)	µg/kg	--	--	--
Dibenz(a,h)anthracene	µg/kg	--	--	--
Dibenzofuran	µg/kg	--	--	--
Diethyl phthalate	µg/kg	--	--	--
Dimethyl phthalate	µg/kg	--	--	--
Fluoranthene	µg/kg	--	--	--
Fluorene	µg/kg	--	--	--
Hexachlorobenzene	µg/kg	--	--	--
Hexachlorobutadiene	µg/kg	--	--	--
Hexachlorocyclopentadiene	µg/kg	--	--	--
Hexachloroethane	µg/kg	--	--	--
Indeno(1,2,3-cd)pyrene	µg/kg	--	--	--
Isophorone	µg/kg	--	--	--
N-Nitrosodi-n-propylamine	µg/kg	--	--	--
N-Nitrosodiphenylamine	µg/kg	--	--	--
Naphthalene	µg/kg	--	--	--
Nitrobenzene	µg/kg	--	--	--
Pentachlorophenol	µg/kg	--	--	--
Phenanthrene	µg/kg	--	--	--
Phenol	µg/kg	--	--	--
Pyrene	µg/kg	--	--	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-127**	**SS-128**	**SS-129**
	Sample Name:	**SS-38443-122018-JC-127**	**SS-38443-122018-JC-128**	**SS-38443-122018-JC-129**
	Sample Date:	**12/20/2018**	**12/20/2018**	**12/20/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Herbicides				
2,4,5-T	µg/kg	17 U	15 U	15 U
2,4,5-TP (Silvex)	µg/kg	19 U	16 U	16 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/kg	66 U	57 U	55 U
PCBs				
Aroclor-1016 (PCB-1016)	µg/kg	--	--	--
Aroclor-1221 (PCB-1221)	µg/kg	--	--	--
Aroclor-1232 (PCB-1232)	µg/kg	--	--	--
Aroclor-1242 (PCB-1242)	µg/kg	--	--	--
Aroclor-1248 (PCB-1248)	µg/kg	--	--	--
Aroclor-1254 (PCB-1254)	µg/kg	--	--	--
Aroclor-1260 (PCB-1260)	µg/kg	--	--	--
Pesticides				
4,4'-DDD	µg/kg	--	--	--
4,4'-DDE	µg/kg	--	--	--
4,4'-DDT	µg/kg	--	--	--
Aldrin	µg/kg	--	--	--
alpha-BHC	µg/kg	--	--	--
alpha-Chlordane	µg/kg	--	--	--
beta-BHC	µg/kg	--	--	--
delta-BHC	µg/kg	--	--	--
Dieldrin	µg/kg	--	--	--
Endosulfan I	µg/kg	--	--	--
Endosulfan II	µg/kg	--	--	--
Endosulfan sulfate	µg/kg	--	--	--
Endrin	µg/kg	--	--	--
Endrin aldehyde	µg/kg	--	--	--
Endrin ketone	µg/kg	--	--	--
gamma-BHC (lindane)	µg/kg	--	--	--
gamma-Chlordane	µg/kg	--	--	--
Heptachlor	µg/kg	--	--	--
Heptachlor epoxide	µg/kg	--	--	--
Methoxychlor	µg/kg	--	--	--
Toxaphene	µg/kg	--	--	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-127**	**SS-128**	**SS-129**
	Sample Name:	**SS-38443-122018-JC-127**	**SS-38443-122018-JC-128**	**SS-38443-122018-JC-129**
	Sample Date:	**12/20/2018**	**12/20/2018**	**12/20/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs)				
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
Total heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
Total hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
Total pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
Total tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Metals				
Aluminum	mg/kg	--	--	--
Antimony	mg/kg	--	--	--
Arsenic	mg/kg	--	--	--
Barium	mg/kg	--	--	--
Beryllium	mg/kg	--	--	--
Cadmium	mg/kg	--	--	--
Calcium	mg/kg	--	--	--
Chromium	mg/kg	--	--	--
Chromium III (trivalent)	mg/kg	--	--	--
Chromium VI (hexavalent)	mg/kg	--	--	--
Cobalt	mg/kg	--	--	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-127**	**SS-128**	**SS-129**
	Sample Name:	**SS-38443-122018-JC-127**	**SS-38443-122018-JC-128**	**SS-38443-122018-JC-129**
	Sample Date:	**12/20/2018**	**12/20/2018**	**12/20/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Metals				
Copper	mg/kg	--	--	--
Iron	mg/kg	--	--	--
Lead	mg/kg	--	--	--
Lead - coarse fraction	mg/kg	--	--	--
Lead - fine fraction	mg/kg	--	--	--
Lead - total (calculated by fine/coarse fraction)	mg/kg	--	--	--
Magnesium	mg/kg	--	--	--
Manganese	mg/kg	--	--	--
Mercury	mg/kg	--	--	--
Nickel	mg/kg	--	--	--
Potassium	mg/kg	--	--	--
Selenium	mg/kg	--	--	--
Silver	mg/kg	--	--	--
Sodium	mg/kg	--	--	--
Thallium	mg/kg	--	--	--
Vanadium	mg/kg	--	--	--
Zinc	mg/kg	--	--	--
General Chemistry				
Cyanide (total)	mg/kg	--	--	--
Soot carbon	mg/kg	--	--	--
Total organic carbon (TOC)	mg/kg	--	--	--

Notes:

R - Rejected
J - Estimated concentration
U - Not detected at the associated reporting limit
-- - Not applicable
UJ - Not detected; associated reporting limit is detected
PCBs - Polychlorinated Biphenyls

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-130**	**SS-130**	**SS-131**
	Sample Name:	**SS-38443-102918-JC-130**	**SS-38443-102918-JC-114**	**SS-38443-102918-JC-131**
	Sample Date:	**10/29/2018**	**10/29/2018**	**10/29/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
			Duplicate	
Parameters	**Unit**			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/kg	0.80 U	0.81 U	23 U
1,1,2,2-Tetrachloroethane	µg/kg	1.4 U	1.4 U	23 U
1,1,2-Trichloroethane	µg/kg	1.1 U	1.1 U	21 U
1,1-Dichloroethane	µg/kg	0.68 U	0.69 U	15 U
1,1-Dichloroethene	µg/kg	0.88 U	0.89 U	25 U
1,2,4-Trichlorobenzene	µg/kg	0.56 U	0.57 U	220 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	3.5 U	3.6 U	140 U
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	0.75 U	0.76 U	130 U
1,2-Dichlorobenzene	µg/kg	1.1 U	1.1 U	34 U
1,2-Dichloroethane	µg/kg	0.75 U	0.76 U	20 U
1,2-Dichloropropane	µg/kg	0.83 U	0.84 U	13 U
1,3-Dichlorobenzene	µg/kg	0.80 U	0.81 U	34 U
1,4-Dichlorobenzene	µg/kg	0.86 U	0.87 U	28 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	10 J	8.3 J	260 U
2-Hexanone	µg/kg	4.0 U	4.0 U	430 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	3.6 U	3.7 U	390 U
Acetone	µg/kg	21 U	21 U	400 U
Benzene	µg/kg	0.68 U	0.69 U	13 U
Bromodichloromethane	µg/kg	0.66 U	0.67 U	46 U
Bromoform	µg/kg	2.3 U	2.4 U	170 U
Bromomethane (Methyl bromide)	µg/kg	0.96 U	0.98 U	270 U
Carbon disulfide	µg/kg	1.1 U	1.2 U	180 U
Carbon tetrachloride	µg/kg	3.2 U	3.2 U	30 U
Chlorobenzene	µg/kg	0.89 U	0.91 U	57 U
Chloroethane	µg/kg	1.2 U	1.2 U	250 U
Chloroform (Trichloromethane)	µg/kg	0.77 U	0.78 U	15 U
Chloromethane (Methyl chloride)	µg/kg	1.0 U	1.0 U	110 U
cis-1,2-Dichloroethene	µg/kg	0.64 U	0.64 U	15 U
cis-1,3-Dichloropropene	µg/kg	1.4 U	1.4 U	61 U
Cyclohexane	µg/kg	1.3 U	1.4 U	270 U
Dibromochloromethane	µg/kg	2.7 U	2.8 U	190 U
Dichlorodifluoromethane (CFC-12)	µg/kg	0.92 U	0.93 U	87 U
Ethylbenzene	µg/kg	1.0 U	1.0 U	20 U
Isopropyl benzene	µg/kg	0.81 U	0.82 U	62 U
Methyl acetate	µg/kg	3.3 U	3.4 U	860 U
Methyl cyclohexane	µg/kg	1.2 U	1.2 U	110 U
Methyl tert butyl ether (MTBE)	µg/kg	0.80 U	0.81 U	61 U
Methylene chloride	µg/kg	12 U	12 U	630 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-130**	**SS-130**	**SS-131**
	Sample Name:	**SS-38443-102918-JC-130**	**SS-38443-102918-JC-114**	**SS-38443-102918-JC-131**
	Sample Date:	**10/29/2018**	**10/29/2018**	**10/29/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
			Duplicate	
Parameters	**Unit**			
Volatile Organic Compounds				
Styrene	µg/kg	1.1 U	1.1 U	20 U
Tetrachloroethene	µg/kg	0.71 U	0.72 U	76 J
Toluene	µg/kg	0.75 U	0.76 U	74 U
trans-1,2-Dichloroethene	µg/kg	0.45 U	0.46 U	25 U
trans-1,3-Dichloropropene	µg/kg	1.0 U	1.0 U	170 U
Trichloroethene	µg/kg	0.62 U	0.63 U	850
Trichlorofluoromethane (CFC-11)	µg/kg	1.1 U	1.1 U	75 U
Trifluorotrichloroethane (CFC-113)	µg/kg	1.3 U	1.3 U	110 U
Vinyl chloride	µg/kg	0.82 U	0.83 U	16 U
Xylenes (total)	µg/kg	1.5 U	1.6 U	38 U
Semivolatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	12 UJ	12 U	10 U
2,4,5-Trichlorophenol	µg/kg	80 U	82 U	71 U
2,4,6-Trichlorophenol	µg/kg	74 U	76 U	66 U
2,4-Dichlorophenol	µg/kg	51 U	53 U	46 U
2,4-Dimethylphenol	µg/kg	46 U	48 U	41 U
2,4-Dinitrophenol	µg/kg	R	170 U	150 U
2,4-Dinitrotoluene	µg/kg	72 U	74 U	64 U
2,6-Dinitrotoluene	µg/kg	65 U	67 U	58 U
2-Chloronaphthalene	µg/kg	16 U	17 U	15 U
2-Chlorophenol	µg/kg	12 U	12 U	10 U
2-Methylnaphthalene	µg/kg	14 J	14 J	6.7 J
2-Methylphenol	µg/kg	36 U	37 U	32 U
2-Nitroaniline	µg/kg	46 U	48 U	41 U
2-Nitrophenol	µg/kg	15 U	16 U	13 U
3&4-Methylphenol	µg/kg	33 U	35 U	30 U
3,3'-Dichlorobenzidine	µg/kg	50 U	51 U	45 U
3-Nitroaniline	µg/kg	57 U	58 U	51 U
4,6-Dinitro-2-methylphenol	µg/kg	R	95 U	83 U
4-Bromophenyl phenyl ether	µg/kg	16 U	17 U	15 U
4-Chloro-3-methylphenol	µg/kg	52 U	54 U	47 U
4-Chloroaniline	µg/kg	35 U	36 U	31 U
4-Chlorophenyl phenyl ether	µg/kg	16 U	17 U	15 U
4-Nitroaniline	µg/kg	69 U	72 U	62 U
4-Nitrophenol	µg/kg	110 U	110 U	97 U
Acenaphthene	µg/kg	12 J	23	19
Acenaphthylene	µg/kg	6.5 J	4.8 U	4.2 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-130**	**SS-130**	**SS-131**
	Sample Name:	**SS-38443-102918-JC-130**	**SS-38443-102918-JC-114**	**SS-38443-102918-JC-131**
	Sample Date:	**10/29/2018**	**10/29/2018**	**10/29/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
			Duplicate	
Parameters	**Unit**			
Semivolatile Organic Compounds				
Acetophenone	µg/kg	13 U	13 U	11 U
Anthracene	µg/kg	32	94	70
Atrazine	µg/kg	42 U	43 U	37 U
Benzaldehyde	µg/kg	27 U	27 U	24 U
Benzo(a)anthracene	µg/kg	120	150	180
Benzo(a)pyrene	µg/kg	120	110	140
Benzo(b)fluoranthene	µg/kg	180	150	190
Benzo(g,h,i)perylene	µg/kg	99	78	100
Benzo(k)fluoranthene	µg/kg	70	71	89
Biphenyl (1,1-Biphenyl)	µg/kg	20 U	20 U	18 U
bis(2-Chloroethoxy)methane	µg/kg	14 U	14 U	12 U
bis(2-Chloroethyl)ether	µg/kg	14 U	14 U	12 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	59 U	61 U	53 U
Butyl benzylphthalate (BBP)	µg/kg	25 U	26 U	23 U
Caprolactam	µg/kg	87 U	89 U	78 U
Carbazole	µg/kg	25 J	45 J	33 J
Chrysene	µg/kg	140	140	170
Di-n-butylphthalate (DBP)	µg/kg	25 U	26 U	23 U
Di-n-octyl phthalate (DnOP)	µg/kg	32 U	33 U	29 U
Dibenz(a,h)anthracene	µg/kg	8.0 U	18	29
Dibenzofuran	µg/kg	15 U	28 J	14 J
Diethyl phthalate	µg/kg	36 U	37 U	380
Dimethyl phthalate	µg/kg	16 U	17 U	15 U
Fluoranthene	µg/kg	270	400	390
Fluorene	µg/kg	12 J	52 J	21
Hexachlorobenzene	µg/kg	3.3 U	3.4 U	3.0 U
Hexachlorobutadiene	µg/kg	14 U	14 U	12 U
Hexachlorocyclopentadiene	µg/kg	R	74 U	64 U
Hexachloroethane	µg/kg	10 U	11 U	9.3 U
Indeno(1,2,3-cd)pyrene	µg/kg	92	67	84
Isophorone	µg/kg	14 U	14 U	12 U
N-Nitrosodi-n-propylamine	µg/kg	13 UJ	13 U	11 U
N-Nitrosodiphenylamine	µg/kg	14 U	14 U	12 U
Naphthalene	µg/kg	15 J	14 J	9.2 J
Nitrobenzene	µg/kg	15 U	16 U	13 U
Pentachlorophenol	µg/kg	67 U	69 U	60 U
Phenanthrene	µg/kg	160	380	260
Phenol	µg/kg	9.2 U	9.5 U	8.3 U
Pyrene	µg/kg	260	280	310

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-130**	**SS-130**	**SS-131**
	Sample Name:	**SS-38443-102918-JC-130**	**SS-38443-102918-JC-114**	**SS-38443-102918-JC-131**
	Sample Date:	**10/29/2018**	**10/29/2018**	**10/29/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
			Duplicate	
Parameters	**Unit**			
Herbicides				
2,4,5-T	µg/kg	--	--	--
2,4,5-TP (Silvex)	µg/kg	--	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/kg	--	--	--
PCBs				
Aroclor-1016 (PCB-1016)	µg/kg	26 U	27 U	23 U
Aroclor-1221 (PCB-1221)	µg/kg	29 U	29 U	25 U
Aroclor-1232 (PCB-1232)	µg/kg	27 U	28 U	24 U
Aroclor-1242 (PCB-1242)	µg/kg	23 U	23 U	20 U
Aroclor-1248 (PCB-1248)	µg/kg	29 U	29 U	25 U
Aroclor-1254 (PCB-1254)	µg/kg	27 U	86	24 U
Aroclor-1260 (PCB-1260)	µg/kg	26 U	27 U	23 U
Pesticides				
4,4'-DDD	µg/kg	1.8 U	2.0 NJ	1.6 U
4,4'-DDE	µg/kg	1.8 U	2.3 J	1.6 U
4,4'-DDT	µg/kg	1.3 U	6.2 J	1.2 U
Aldrin	µg/kg	0.92 U	0.93 U	0.81 U
alpha-BHC	µg/kg	1.1 U	1.1 U	0.95 U
alpha-Chlordane	µg/kg	1.8 U	1.8 U	1.6 U
beta-BHC	µg/kg	2.1 U	2.1 U	1.8 U
delta-BHC	µg/kg	2.0 U	2.0 U	1.8 U
Dieldrin	µg/kg	1.3 U	1.3 U	1.2 U
Endosulfan I	µg/kg	1.4 U	1.5 U	1.3 U
Endosulfan II	µg/kg	1.8 U	1.8 U	1.6 U
Endosulfan sulfate	µg/kg	1.5 U	1.6 U	1.3 U
Endrin	µg/kg	2.3 U	2.3 U	2.0 U
Endrin aldehyde	µg/kg	2.1 NJ	1.6 U	1.4 U
Endrin ketone	µg/kg	1.1 U	1.1 U	0.93 U
gamma-BHC (lindane)	µg/kg	2.1 U	2.2 U	1.9 U
gamma-Chlordane	µg/kg	1.5 U	1.5 U	1.3 U
Heptachlor	µg/kg	1.9 U	1.9 U	1.7 U
Heptachlor epoxide	µg/kg	1.7 U	1.7 U	1.5 U
Methoxychlor	µg/kg	7.8 U	8.0 UJ	6.9 U
Toxaphene	µg/kg	30 U	30 U	26 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-130**	**SS-130**	**SS-131**
	Sample Name:	**SS-38443-102918-JC-130**	**SS-38443-102918-JC-114**	**SS-38443-102918-JC-131**
	Sample Date:	**10/29/2018**	**10/29/2018**	**10/29/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
			Duplicate	
Parameters	**Unit**			
Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs)				
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
Total heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
Total hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
Total pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
Total tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Metals				
Aluminum	mg/kg	12000	13000	2800
Antimony	mg/kg	0.42 J	0.24 J	0.49
Arsenic	mg/kg	9.5	12	4.7
Barium	mg/kg	94	83	160
Beryllium	mg/kg	0.92	0.95	0.28
Cadmium	mg/kg	0.60	0.20	0.28
Calcium	mg/kg	8400	47000	130000
Chromium	mg/kg	21	18	9.6
Chromium III (trivalent)	mg/kg	20	18	9.6
Chromium VI (hexavalent)	mg/kg	0.74 J	0.29 U	0.25 U
Cobalt	mg/kg	8.5	8.6	3.2

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-130**	**SS-130**	**SS-131**
	Sample Name:	**SS-38443-102918-JC-130**	**SS-38443-102918-JC-114**	**SS-38443-102918-JC-131**
	Sample Date:	**10/29/2018**	**10/29/2018**	**10/29/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
			Duplicate	
Parameters	**Unit**			
Metals				
Copper	mg/kg	41	20	25
Iron	mg/kg	21000	25000	8800
Lead	mg/kg	170	25	20
Lead - coarse fraction	mg/kg	--	--	18
Lead - fine fraction	mg/kg	--	--	26
Lead - total (calculated by fine/coarse fraction)	mg/kg	--	--	19
Magnesium	mg/kg	5400	19000	54000
Manganese	mg/kg	360	450	390
Mercury	mg/kg	6.1	0.30	0.019 U
Nickel	mg/kg	18	19	9.1
Potassium	mg/kg	1000	950	400
Selenium	mg/kg	0.79 J	1.1	0.38 J
Silver	mg/kg	0.22	0.043 J	0.059 J
Sodium	mg/kg	64 J	89 J	150 J
Thallium	mg/kg	0.25	0.29	0.075 J
Vanadium	mg/kg	29	31	12
Zinc	mg/kg	92	58	61
General Chemistry				
Cyanide (total)	mg/kg	0.23 U	0.24 U	0.20 U
Soot carbon	mg/kg	--	--	--
Total organic carbon (TOC)	mg/kg	--	--	--

Notes:

R - Rejected
J - Estimated concentration
U - Not detected at the associated reporting limit
-- - Not applicable
UJ - Not detected; associated reporting limit is detected
PCBs - Polychlorinated Biphenyls

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-133**	**SS-134**	**SS-135**
	Sample Name:	**SS-38443-102918-JC-133**	**SS-38443-102918-JC-134**	**SS-38443-102918-JC-135**
	Sample Date:	**10/29/2018**	**10/29/2018**	**10/29/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/kg	R	R	18 U
1,1,2,2-Tetrachloroethane	µg/kg	R	R	18 U
1,1,2-Trichloroethane	µg/kg	R	R	17 U
1,1-Dichloroethane	µg/kg	R	5.3 J	12 U
1,1-Dichloroethene	µg/kg	R	R	19 U
1,2,4-Trichlorobenzene	µg/kg	R	R	170 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	R	R	110 U
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	R	R	100 U
1,2-Dichlorobenzene	µg/kg	R	R	27 U
1,2-Dichloroethane	µg/kg	R	R	16 U
1,2-Dichloropropane	µg/kg	R	R	10 U
1,3-Dichlorobenzene	µg/kg	R	2.1 J	27 U
1,4-Dichlorobenzene	µg/kg	R	R	22 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	18 J	46 J	200 U
2-Hexanone	µg/kg	R	R	340 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	R	R	310 U
Acetone	µg/kg	R	R	320 U
Benzene	µg/kg	R	21 J	14 J
Bromodichloromethane	µg/kg	R	R	36 U
Bromoform	µg/kg	R	R	140 U
Bromomethane (Methyl bromide)	µg/kg	R	R	210 U
Carbon disulfide	µg/kg	R	R	140 U
Carbon tetrachloride	µg/kg	R	R	23 U
Chlorobenzene	µg/kg	R	R	45 U
Chloroethane	µg/kg	R	R	190 U
Chloroform (Trichloromethane)	µg/kg	R	R	12 U
Chloromethane (Methyl chloride)	µg/kg	R	R	85 U
cis-1,2-Dichloroethene	µg/kg	R	R	12 U
cis-1,3-Dichloropropene	µg/kg	R	R	48 U
Cyclohexane	µg/kg	R	R	210 U
Dibromochloromethane	µg/kg	R	R	150 U
Dichlorodifluoromethane (CFC-12)	µg/kg	R	R	69 U
Ethylbenzene	µg/kg	R	R	16 U
Isopropyl benzene	µg/kg	R	R	49 U
Methyl acetate	µg/kg	R	R	680 U
Methyl cyclohexane	µg/kg	R	R	85 U
Methyl tert butyl ether (MTBE)	µg/kg	R	R	48 U
Methylene chloride	µg/kg	R	R	500 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-133**	**SS-134**	**SS-135**
	Sample Name:	**SS-38443-102918-JC-133**	**SS-38443-102918-JC-134**	**SS-38443-102918-JC-135**
	Sample Date:	**10/29/2018**	**10/29/2018**	**10/29/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
Styrene	µg/kg	R	R	16 U
Tetrachloroethene	µg/kg	1.2 J	R	99 J
Toluene	µg/kg	R	R	67 U
trans-1,2-Dichloroethene	µg/kg	R	R	19 U
trans-1,3-Dichloropropene	µg/kg	R	R	140 U
Trichloroethene	µg/kg	3.7 J	R	3000
Trichlorofluoromethane (CFC-11)	µg/kg	R	R	60 U
Trifluorotrichloroethane (CFC-113)	µg/kg	R	R	87 U
Vinyl chloride	µg/kg	R	R	13 U
Xylenes (total)	µg/kg	R	R	30 U
Semivolatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	10 U	14 UJ	11 UJ
2,4,5-Trichlorophenol	µg/kg	72 U	94 U	79 U
2,4,6-Trichlorophenol	µg/kg	67 U	87 U	73 U
2,4-Dichlorophenol	µg/kg	46 U	60 U	50 U
2,4-Dimethylphenol	µg/kg	42 U	54 U	46 U
2,4-Dinitrophenol	µg/kg	150 U	190 U	160 U
2,4-Dinitrotoluene	µg/kg	65 U	84 U	71 U
2,6-Dinitrotoluene	µg/kg	58 U	76 U	64 U
2-Chloronaphthalene	µg/kg	15 U	19 U	16 U
2-Chlorophenol	µg/kg	10 U	14 U	11 U
2-Methylnaphthalene	µg/kg	730	2.7 U	69
2-Methylphenol	µg/kg	32 U	42 U	36 U
2-Nitroaniline	µg/kg	42 U	54 U	46 U
2-Nitrophenol	µg/kg	14 U	18 U	15 U
3&4-Methylphenol	µg/kg	30 U	39 U	33 U
3,3'-Dichlorobenzidine	µg/kg	45 U	58 U	49 U
3-Nitroaniline	µg/kg	51 U	66 U	56 U
4,6-Dinitro-2-methylphenol	µg/kg	83 U	110 U	92 U
4-Bromophenyl phenyl ether	µg/kg	15 U	19 U	16 U
4-Chloro-3-methylphenol	µg/kg	47 U	61 U	52 U
4-Chloroaniline	µg/kg	31 U	41 U	34 U
4-Chlorophenyl phenyl ether	µg/kg	15 U	19 U	16 U
4-Nitroaniline	µg/kg	63 U	81 U	69 U
4-Nitrophenol	µg/kg	98 U	130 U	110 U
Acenaphthene	µg/kg	3.0 U	3.9 U	4.9 J
Acenaphthylene	µg/kg	32	5.4 U	5.8 J

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-133**	**SS-134**	**SS-135**
	Sample Name:	**SS-38443-102918-JC-133**	**SS-38443-102918-JC-134**	**SS-38443-102918-JC-135**
	Sample Date:	**10/29/2018**	**10/29/2018**	**10/29/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Semivolatile Organic Compounds				
Acetophenone	µg/kg	11 U	15 U	13 U
Anthracene	µg/kg	43	3.3 U	11 J
Atrazine	µg/kg	38 U	49 U	41 U
Benzaldehyde	µg/kg	24 U	31 U	26 U
Benzo(a)anthracene	µg/kg	200	4.6 U	79
Benzo(a)pyrene	µg/kg	220	13 U	88
Benzo(b)fluoranthene	µg/kg	400	8.8 U	160
Benzo(g,h,i)perylene	µg/kg	260	9.6 U	77
Benzo(k)fluoranthene	µg/kg	120	9.4 U	41
Biphenyl (1,1-Biphenyl)	µg/kg	49 J	23 U	19 U
bis(2-Chloroethoxy)methane	µg/kg	13 U	16 U	14 U
bis(2-Chloroethyl)ether	µg/kg	13 U	16 U	14 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	53 U	69 U	58 U
Butyl benzylphthalate (BBP)	µg/kg	23 U	30 U	25 U
Caprolactam	µg/kg	78 U	100 U	86 U
Carbazole	µg/kg	20 U	26 U	22 U
Chrysene	µg/kg	270	2.0 U	110
Di-n-butylphthalate (DBP)	µg/kg	27 J	30 U	25 U
Di-n-octyl phthalate (DnOP)	µg/kg	29 U	38 U	32 U
Dibenz(a,h)anthracene	µg/kg	70	9.4 U	24
Dibenzofuran	µg/kg	180	18 U	20 J
Diethyl phthalate	µg/kg	32 U	42 U	36 U
Dimethyl phthalate	µg/kg	15 U	19 U	16 U
Fluoranthene	µg/kg	270	6.0 U	190
Fluorene	µg/kg	16	3.7 U	4.8 J
Hexachlorobenzene	µg/kg	3.0 U	3.9 U	3.3 U
Hexachlorobutadiene	µg/kg	13 U	16 U	14 U
Hexachlorocyclopentadiene	µg/kg	65 U	84 U	71 U
Hexachloroethane	µg/kg	9.4 U	12 U	10 U
Indeno(1,2,3-cd)pyrene	µg/kg	200	10 U	69
Isophorone	µg/kg	13 U	16 U	14 U
N-Nitrosodi-n-propylamine	µg/kg	11 U	15 UJ	13 UJ
N-Nitrosodiphenylamine	µg/kg	13 U	16 U	14 U
Naphthalene	µg/kg	400	3.3 U	41
Nitrobenzene	µg/kg	14 U	18 U	15 U
Pentachlorophenol	µg/kg	61 U	79 U	67 U
Phenanthrene	µg/kg	400	3.0 U	140
Phenol	µg/kg	8.3 U	11 U	9.2 U
Pyrene	µg/kg	220	2.9 U	160

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-133**	**SS-134**	**SS-135**
	Sample Name:	**SS-38443-102918-JC-133**	**SS-38443-102918-JC-134**	**SS-38443-102918-JC-135**
	Sample Date:	**10/29/2018**	**10/29/2018**	**10/29/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Herbicides				
2,4,5-T	µg/kg	--	--	--
2,4,5-TP (Silvex)	µg/kg	--	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/kg	--	--	--
PCBs				
Aroclor-1016 (PCB-1016)	µg/kg	22 U	30 U	25 U
Aroclor-1221 (PCB-1221)	µg/kg	24 U	33 U	28 U
Aroclor-1232 (PCB-1232)	µg/kg	23 U	32 U	26 U
Aroclor-1242 (PCB-1242)	µg/kg	19 U	26 U	22 U
Aroclor-1248 (PCB-1248)	µg/kg	24 U	33 U	28 U
Aroclor-1254 (PCB-1254)	µg/kg	150	32 U	26 U
Aroclor-1260 (PCB-1260)	µg/kg	22 U	30 U	170
Pesticides				
4,4'-DDD	µg/kg	7.5 U	10 U	8.5 U
4,4'-DDE	µg/kg	7.7 U	10 U	8.7 U
4,4'-DDT	µg/kg	5.7 U	7.8 U	6.5 U
Aldrin	µg/kg	3.9 U	5.3 U	4.4 U
alpha-BHC	µg/kg	4.6 U	6.3 U	5.2 U
alpha-Chlordane	µg/kg	7.6 U	10 U	8.6 U
beta-BHC	µg/kg	8.8 U	12 U	9.9 U
delta-BHC	µg/kg	8.6 U	12 U	9.7 U
Dieldrin	µg/kg	5.6 U	7.6 U	6.3 U
Endosulfan I	µg/kg	6.1 U	8.3 U	6.9 U
Endosulfan II	µg/kg	7.5 U	10 U	8.5 U
Endosulfan sulfate	µg/kg	6.5 U	8.8 U	7.3 U
Endrin	µg/kg	9.6 U	13 U	11 U
Endrin aldehyde	µg/kg	6.7 U	9.0 U	7.5 U
Endrin ketone	µg/kg	4.5 U	6.1 U	5.1 U
gamma-BHC (lindane)	µg/kg	9.1 U	12 U	10 U
gamma-Chlordane	µg/kg	6.2 U	8.5 U	7.1 U
Heptachlor	µg/kg	8.0 U	11 U	9.1 U
Heptachlor epoxide	µg/kg	7.3 U	9.9 U	8.3 U
Methoxychlor	µg/kg	33 U	45 U	38 U
Toxaphene	µg/kg	130 U	170 U	140 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-133**	**SS-134**	**SS-135**
	Sample Name:	**SS-38443-102918-JC-133**	**SS-38443-102918-JC-134**	**SS-38443-102918-JC-135**
	Sample Date:	**10/29/2018**	**10/29/2018**	**10/29/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs)				
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
Total heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
Total hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
Total pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
Total tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Metals				
Aluminum	mg/kg	6400	7200	5000
Antimony	mg/kg	3.2	1.3	0.29 J
Arsenic	mg/kg	11	17	6.2
Barium	mg/kg	1200	180	54
Beryllium	mg/kg	0.81	3.9	0.38
Cadmium	mg/kg	3.7	1.2	0.27
Calcium	mg/kg	54000	1500	100000
Chromium	mg/kg	33	20	10
Chromium III (trivalent)	mg/kg	33	19	9.0
Chromium VI (hexavalent)	mg/kg	0.86	0.77 J	0.99
Cobalt	mg/kg	8.4	11	4.2

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-133**	**SS-134**	**SS-135**
	Sample Name:	**SS-38443-102918-JC-133**	**SS-38443-102918-JC-134**	**SS-38443-102918-JC-135**
	Sample Date:	**10/29/2018**	**10/29/2018**	**10/29/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Metals				
Copper	mg/kg	490	36	17
Iron	mg/kg	28000	9700	12000
Lead	mg/kg	510	15	21
Lead - coarse fraction	mg/kg	--	--	--
Lead - fine fraction	mg/kg	--	--	--
Lead - total (calculated by fine/coarse fraction)	mg/kg	--	--	--
Magnesium	mg/kg	16000	380	42000
Manganese	mg/kg	340	34	320
Mercury	mg/kg	0.19	0.22	0.051 J
Nickel	mg/kg	56	41	10
Potassium	mg/kg	740	1100	630
Selenium	mg/kg	0.93 J	4.4	0.47 J
Silver	mg/kg	1.4	0.14 J	0.060 J
Sodium	mg/kg	130 J	190 J	130 J
Thallium	mg/kg	0.26	0.65	0.13 J
Vanadium	mg/kg	18	29	16
Zinc	mg/kg	830	500	45
General Chemistry				
Cyanide (total)	mg/kg	0.21 U	2.8 U	0.22 U
Soot carbon	mg/kg	--	--	--
Total organic carbon (TOC)	mg/kg	--	--	--

Notes:

R - Rejected
J - Estimated concentration
U - Not detected at the associated reporting limit
-- - Not applicable
UJ - Not detected; associated reporting limit is detected
PCBs - Polychlorinated Biphenyls

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-136**	**SS-137**	**SS-141**
	Sample Name:	**SS-38443-102918-JC-136**	**SS-38443-102918-JC-137**	**SS-38443-102918-JC-141**
	Sample Date:	**10/29/2018**	**10/29/2018**	**10/29/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/kg	24 U	1.2 U	1.1 U
1,1,2,2-Tetrachloroethane	µg/kg	24 U	R	R
1,1,2-Trichloroethane	µg/kg	22 U	1.6 U	1.5 U
1,1-Dichloroethane	µg/kg	15 U	0.99 U	0.91 U
1,1-Dichloroethene	µg/kg	26 U	1.3 U	1.2 U
1,2,4-Trichlorobenzene	µg/kg	230 U	R	R
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	150 U	R	R
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	130 U	1.1 U	1.0 U
1,2-Dichlorobenzene	µg/kg	36 U	R	R
1,2-Dichloroethane	µg/kg	20 U	1.1 U	1.0 U
1,2-Dichloropropane	µg/kg	14 U	1.2 U	1.1 U
1,3-Dichlorobenzene	µg/kg	36 U	R	R
1,4-Dichlorobenzene	µg/kg	29 U	R	R
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	270 U	17 J	14 J
2-Hexanone	µg/kg	450 U	5.8 U	5.4 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	410 U	5.3 U	4.9 U
Acetone	µg/kg	420 U	30 U	28 U
Benzene	µg/kg	14 U	1.3 J	0.92 U
Bromodichloromethane	µg/kg	48 U	0.97 U	0.89 U
Bromoform	µg/kg	180 U	3.4 U	3.1 U
Bromomethane (Methyl bromide)	µg/kg	280 U	1.4 U	1.3 U
Carbon disulfide	µg/kg	180 U	1.7 U	1.5 U
Carbon tetrachloride	µg/kg	31 U	4.6 U	4.3 U
Chlorobenzene	µg/kg	60 U	1.3 U	1.2 U
Chloroethane	µg/kg	260 U	1.7 U	1.6 U
Chloroform (Trichloromethane)	µg/kg	15 U	1.1 U	1.0 U
Chloromethane (Methyl chloride)	µg/kg	110 U	1.5 U	1.4 U
cis-1,2-Dichloroethene	µg/kg	690	0.93 U	0.85 U
cis-1,3-Dichloropropene	µg/kg	63 U	2.0 U	1.9 U
Cyclohexane	µg/kg	280 U	2.0 U	1.8 U
Dibromochloromethane	µg/kg	200 U	4.0 U	3.6 U
Dichlorodifluoromethane (CFC-12)	µg/kg	90 U	1.3 U	1.2 U
Ethylbenzene	µg/kg	33 U	1.5 U	1.4 U
Isopropyl benzene	µg/kg	85 J	1.2 U	1.1 U
Methyl acetate	µg/kg	900 U	4.8 U	4.5 U
Methyl cyclohexane	µg/kg	110 U	1.7 U	1.6 U
Methyl tert butyl ether (MTBE)	µg/kg	63 U	1.2 U	1.1 U
Methylene chloride	µg/kg	650 U	17 U	16 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-136**	**SS-137**	**SS-141**
	Sample Name:	**SS-38443-102918-JC-136**	**SS-38443-102918-JC-137**	**SS-38443-102918-JC-141**
	Sample Date:	**10/29/2018**	**10/29/2018**	**10/29/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
Styrene	µg/kg	20 U	1.7 U	1.5 U
Tetrachloroethene	µg/kg	26 U	4.0 J	2.6 J
Toluene	µg/kg	110 U	1.5 J	1.0 U
trans-1,2-Dichloroethene	µg/kg	56 J	0.66 U	0.61 U
trans-1,3-Dichloropropene	µg/kg	180 U	1.5 U	1.4 U
Trichloroethene	µg/kg	700	8.1	3.7 J
Trichlorofluoromethane (CFC-11)	µg/kg	78 U	1.5 U	1.4 U
Trifluorotrichloroethane (CFC-113)	µg/kg	110 U	1.8 U	1.7 U
Vinyl chloride	µg/kg	54 J	1.2 U	1.1 U
Xylenes (total)	µg/kg	230 J	2.3 U	2.1 U
Semivolatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	160 U	13 U	22 U
2,4,5-Trichlorophenol	µg/kg	1100 U	86 U	150 U
2,4,6-Trichlorophenol	µg/kg	990 U	80 U	140 U
2,4-Dichlorophenol	µg/kg	680 U	55 U	95 U
2,4-Dimethylphenol	µg/kg	620 U	50 U	87 U
2,4-Dinitrophenol	µg/kg	2200 U	180 U	310 U
2,4-Dinitrotoluene	µg/kg	960 U	78 U	130 U
2,6-Dinitrotoluene	µg/kg	870 U	70 U	120 U
2-Chloronaphthalene	µg/kg	220 U	18 U	30 U
2-Chlorophenol	µg/kg	160 U	13 U	22 U
2-Methylnaphthalene	µg/kg	120 J	87	160
2-Methylphenol	µg/kg	480 U	39 U	67 U
2-Nitroaniline	µg/kg	620 U	50 U	87 U
2-Nitrophenol	µg/kg	200 U	16 U	28 U
3&4-Methylphenol	µg/kg	450 U	36 U	63 U
3,3'-Dichlorobenzidine	µg/kg	670 U	54 U	93 U
3-Nitroaniline	µg/kg	760 U	61 U	110 U
4,6-Dinitro-2-methylphenol	µg/kg	1200 U	100 U	170 U
4-Bromophenyl phenyl ether	µg/kg	220 U	18 U	30 U
4-Chloro-3-methylphenol	µg/kg	700 U	56 U	98 U
4-Chloroaniline	µg/kg	470 U	38 U	65 U
4-Chlorophenyl phenyl ether	µg/kg	220 U	18 U	30 U
4-Nitroaniline	µg/kg	930 U	75 U	130 U
4-Nitrophenol	µg/kg	1500 U	120 U	200 U
Acenaphthene	µg/kg	44 U	3.6 U	19 J
Acenaphthylene	µg/kg	62 U	6.8 J	91

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-136**	**SS-137**	**SS-141**
	Sample Name:	**SS-38443-102918-JC-136**	**SS-38443-102918-JC-137**	**SS-38443-102918-JC-141**
	Sample Date:	**10/29/2018**	**10/29/2018**	**10/29/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Semivolatile Organic Compounds				
Acetophenone	µg/kg	170 U	110 J	24 U
Anthracene	µg/kg	37 U	4.8 J	110
Atrazine	µg/kg	560 U	45 U	78 U
Benzaldehyde	µg/kg	360 U	29 U	50 U
Benzo(a)anthracene	µg/kg	260	36	600
Benzo(a)pyrene	µg/kg	320	41	690
Benzo(b)fluoranthene	µg/kg	370	83	1100
Benzo(g,h,i)perylene	µg/kg	220 J	61	570
Benzo(k)fluoranthene	µg/kg	180 J	21	340
Biphenyl (1,1-Biphenyl)	µg/kg	260 U	21 U	37 U
bis(2-Chloroethoxy)methane	µg/kg	190 U	15 U	26 U
bis(2-Chloroethyl)ether	µg/kg	190 U	15 U	26 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	17000	64 U	110 J
Butyl benzylphthalate (BBP)	µg/kg	340 U	28 U	48 U
Caprolactam	µg/kg	1200 U	94 U	160 U
Carbazole	µg/kg	290 U	24 U	50 J
Chrysene	µg/kg	360	78	730
Di-n-butylphthalate (DBP)	µg/kg	340 U	28 J	48 U
Di-n-octyl phthalate (DnOP)	µg/kg	430 U	35 U	61 U
Dibenz(a,h)anthracene	µg/kg	110 U	8.7 U	140
Dibenzofuran	µg/kg	200 U	16 J	50 J
Diethyl phthalate	µg/kg	480 U	39 U	67 U
Dimethyl phthalate	µg/kg	220 U	18 U	30 U
Fluoranthene	µg/kg	390	51	1000
Fluorene	µg/kg	43 U	3.4 U	20 J
Hexachlorobenzene	µg/kg	44 U	3.6 U	6.2 U
Hexachlorobutadiene	µg/kg	190 U	15 U	26 U
Hexachlorocyclopentadiene	µg/kg	960 U	78 U	130 U
Hexachloroethane	µg/kg	140 U	11 U	20 U
Indeno(1,2,3-cd)pyrene	µg/kg	240	38	460
Isophorone	µg/kg	190 U	15 U	26 U
N-Nitrosodi-n-propylamine	µg/kg	170 U	14 U	24 U
N-Nitrosodiphenylamine	µg/kg	190 U	15 U	26 U
Naphthalene	µg/kg	130 J	78	120
Nitrobenzene	µg/kg	200 U	16 U	28 U
Pentachlorophenol	µg/kg	900 U	73 U	130 U
Phenanthrene	µg/kg	250	77	480
Phenol	µg/kg	120 U	10 U	17 U
Pyrene	µg/kg	330	39	840

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-136**	**SS-137**	**SS-141**
	Sample Name:	**SS-38443-102918-JC-136**	**SS-38443-102918-JC-137**	**SS-38443-102918-JC-141**
	Sample Date:	**10/29/2018**	**10/29/2018**	**10/29/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Herbicides				
2,4,5-T	µg/kg	--	--	--
2,4,5-TP (Silvex)	µg/kg	--	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/kg	--	--	--
PCBs				
Aroclor-1016 (PCB-1016)	µg/kg	140 U	29 U	240 U
Aroclor-1221 (PCB-1221)	µg/kg	150 U	32 U	260 U
Aroclor-1232 (PCB-1232)	µg/kg	140 U	30 U	1100
Aroclor-1242 (PCB-1242)	µg/kg	1100	25 U	200 U
Aroclor-1248 (PCB-1248)	µg/kg	150 U	32 U	260 U
Aroclor-1254 (PCB-1254)	µg/kg	1800	30 U	410 J
Aroclor-1260 (PCB-1260)	µg/kg	140 U	29 U	240 U
Pesticides				
4,4'-DDD	µg/kg	9.2 U	97 U	80 U
4,4'-DDE	µg/kg	20 NJ	99 U	81 U
4,4'-DDT	µg/kg	7.0 U	74 U	61 U
Aldrin	µg/kg	4.8 U	51 U	41 U
alpha-BHC	µg/kg	5.7 U	60 U	49 U
alpha-Chlordane	µg/kg	9.4 U	99 U	81 U
beta-BHC	µg/kg	11 U	110 U	93 U
delta-BHC	µg/kg	42 U	110 U	91 U
Dieldrin	µg/kg	14 NJ	72 U	59 U
Endosulfan I	µg/kg	7.5 U	79 U	65 U
Endosulfan II	µg/kg	9.2 U	97 U	80 U
Endosulfan sulfate	µg/kg	32 U	84 U	69 U
Endrin	µg/kg	12 U	120 U	100 U
Endrin aldehyde	µg/kg	33 U	86 U	70 U
Endrin ketone	µg/kg	5.5 U	58 U	48 U
gamma-BHC (lindane)	µg/kg	11 U	120 U	96 U
gamma-Chlordane	µg/kg	7.7 U	81 U	66 U
Heptachlor	µg/kg	9.8 U	100 U	85 U
Heptachlor epoxide	µg/kg	9.6 NJ	95 U	77 U
Methoxychlor	µg/kg	41 UJ	430 U	350 U
Toxaphene	µg/kg	160 U	1600 U	1300 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-136**	**SS-137**	**SS-141**
	Sample Name:	**SS-38443-102918-JC-136**	**SS-38443-102918-JC-137**	**SS-38443-102918-JC-141**
	Sample Date:	**10/29/2018**	**10/29/2018**	**10/29/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs)				
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
Total heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
Total hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
Total pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
Total tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Metals				
Aluminum	mg/kg	10000	8600	6400
Antimony	mg/kg	12	4.4	4.8
Arsenic	mg/kg	24	19	9.5
Barium	mg/kg	2900	720	760
Beryllium	mg/kg	1.0	2.2	0.63
Cadmium	mg/kg	16	3.5	3.8
Calcium	mg/kg	79000	17000	100000
Chromium	mg/kg	210	65	37
Chromium III (trivalent)	mg/kg	210	65	37
Chromium VI (hexavalent)	mg/kg	1.5 U	1.5 U	1.3 U
Cobalt	mg/kg	29	24	9.0

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-136**	**SS-137**	**SS-141**
	Sample Name:	**SS-38443-102918-JC-136**	**SS-38443-102918-JC-137**	**SS-38443-102918-JC-141**
	Sample Date:	**10/29/2018**	**10/29/2018**	**10/29/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Metals				
Copper	mg/kg	2900	730	620
Iron	mg/kg	100000	110000	26000
Lead	mg/kg	2200	490	720
Lead - coarse fraction	mg/kg	2000	--	1600
Lead - fine fraction	mg/kg	2700	--	2000
Lead - total (calculated by fine/coarse fraction)	mg/kg	2200	--	1700
Magnesium	mg/kg	24000	3200	42000
Manganese	mg/kg	820	670	450
Mercury	mg/kg	0.66	0.28	0.19
Nickel	mg/kg	150	94	79
Potassium	mg/kg	1000	1300	640
Selenium	mg/kg	2.0	2.3	0.80 J
Silver	mg/kg	6.3	0.76	8.2
Sodium	mg/kg	560	390	210
Thallium	mg/kg	0.22	0.35	0.21
Vanadium	mg/kg	50	29	17
Zinc	mg/kg	5600	1600	920
General Chemistry				
Cyanide (total)	mg/kg	41	6.5	0.62
Soot carbon	mg/kg	--	--	--
Total organic carbon (TOC)	mg/kg	--	--	--

Notes:

R - Rejected
J - Estimated concentration
U - Not detected at the associated reporting limit
-- - Not applicable
UJ - Not detected; associated reporting limit is detected
PCBs - Polychlorinated Biphenyls

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-143**	**SS-148**	**SS-152**
	Sample Name:	**SS-38443-102918-JC-143**	**SS-38443-112018-JC-148**	**SS-38443-112018-JC-152**
	Sample Date:	**10/29/2018**	**11/20/2018**	**11/20/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/kg	0.82 U	--	--
1,1,2,2-Tetrachloroethane	µg/kg	1.4 U	--	--
1,1,2-Trichloroethane	µg/kg	1.1 U	--	--
1,1-Dichloroethane	µg/kg	0.69 U	--	--
1,1-Dichloroethene	µg/kg	0.90 U	--	--
1,2,4-Trichlorobenzene	µg/kg	0.57 U	--	--
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	3.6 U	--	--
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	0.77 U	--	--
1,2-Dichlorobenzene	µg/kg	1.1 U	--	--
1,2-Dichloroethane	µg/kg	0.77 U	--	--
1,2-Dichloropropane	µg/kg	0.85 U	--	--
1,3-Dichlorobenzene	µg/kg	0.81 U	--	--
1,4-Dichlorobenzene	µg/kg	0.88 U	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	12 J	--	--
2-Hexanone	µg/kg	4.1 U	--	--
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	3.7 U	--	--
Acetone	µg/kg	21 U	--	--
Benzene	µg/kg	0.70 U	--	--
Bromodichloromethane	µg/kg	0.68 U	--	--
Bromoform	µg/kg	2.4 U	--	--
Bromomethane (Methyl bromide)	µg/kg	0.98 U	--	--
Carbon disulfide	µg/kg	1.2 U	--	--
Carbon tetrachloride	µg/kg	3.2 U	--	--
Chlorobenzene	µg/kg	0.91 U	--	--
Chloroethane	µg/kg	1.2 U	--	--
Chloroform (Trichloromethane)	µg/kg	0.79 U	--	--
Chloromethane (Methyl chloride)	µg/kg	1.0 U	--	--
cis-1,2-Dichloroethene	µg/kg	0.65 U	--	--
cis-1,3-Dichloropropene	µg/kg	1.4 U	--	--
Cyclohexane	µg/kg	1.4 U	--	--
Dibromochloromethane	µg/kg	2.8 U	--	--
Dichlorodifluoromethane (CFC-12)	µg/kg	0.94 U	--	--
Ethylbenzene	µg/kg	1.0 U	--	--
Isopropyl benzene	µg/kg	0.83 U	--	--
Methyl acetate	µg/kg	3.4 U	--	--
Methyl cyclohexane	µg/kg	1.2 U	--	--
Methyl tert butyl ether (MTBE)	µg/kg	0.82 U	--	--
Methylene chloride	µg/kg	12 U	--	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-143**	**SS-148**	**SS-152**
	Sample Name:	**SS-38443-102918-JC-143**	**SS-38443-112018-JC-148**	**SS-38443-112018-JC-152**
	Sample Date:	**10/29/2018**	**11/20/2018**	**11/20/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
Styrene	µg/kg	1.2 U	--	--
Tetrachloroethene	µg/kg	0.73 U	--	--
Toluene	µg/kg	0.77 U	--	--
trans-1,2-Dichloroethene	µg/kg	0.46 U	--	--
trans-1,3-Dichloropropene	µg/kg	1.0 U	--	--
Trichloroethene	µg/kg	0.63 U	--	--
Trichlorofluoromethane (CFC-11)	µg/kg	1.1 U	--	--
Trifluorotrichloroethane (CFC-113)	µg/kg	1.3 U	--	--
Vinyl chloride	µg/kg	0.83 U	--	--
Xylenes (total)	µg/kg	1.6 U	--	--
Semivolatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	11 U	--	--
2,4,5-Trichlorophenol	µg/kg	73 U	--	--
2,4,6-Trichlorophenol	µg/kg	67 U	--	--
2,4-Dichlorophenol	µg/kg	46 U	--	--
2,4-Dimethylphenol	µg/kg	42 U	--	--
2,4-Dinitrophenol	µg/kg	150 U	--	--
2,4-Dinitrotoluene	µg/kg	65 U	--	--
2,6-Dinitrotoluene	µg/kg	59 U	--	--
2-Chloronaphthalene	µg/kg	15 U	--	--
2-Chlorophenol	µg/kg	11 U	--	--
2-Methylnaphthalene	µg/kg	14 J	--	--
2-Methylphenol	µg/kg	33 U	--	--
2-Nitroaniline	µg/kg	42 U	--	--
2-Nitrophenol	µg/kg	14 U	--	--
3&4-Methylphenol	µg/kg	31 U	--	--
3,3'-Dichlorobenzidine	µg/kg	45 U	--	--
3-Nitroaniline	µg/kg	52 U	--	--
4,6-Dinitro-2-methylphenol	µg/kg	84 U	--	--
4-Bromophenyl phenyl ether	µg/kg	15 U	--	--
4-Chloro-3-methylphenol	µg/kg	47 U	--	--
4-Chloroaniline	µg/kg	32 U	--	--
4-Chlorophenyl phenyl ether	µg/kg	15 U	--	--
4-Nitroaniline	µg/kg	63 U	--	--
4-Nitrophenol	µg/kg	99 U	--	--
Acenaphthene	µg/kg	3.0 U	--	--
Acenaphthylene	µg/kg	5.7 J	--	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-143**	**SS-148**	**SS-152**
	Sample Name:	**SS-38443-102918-JC-143**	**SS-38443-112018-JC-148**	**SS-38443-112018-JC-152**
	Sample Date:	**10/29/2018**	**11/20/2018**	**11/20/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Semivolatile Organic Compounds				
Acetophenone	µg/kg	12 U	--	--
Anthracene	µg/kg	7.4 J	--	--
Atrazine	µg/kg	38 U	--	--
Benzaldehyde	µg/kg	24 U	--	--
Benzo(a)anthracene	µg/kg	34	--	--
Benzo(a)pyrene	µg/kg	34	--	--
Benzo(b)fluoranthene	µg/kg	57	--	--
Benzo(g,h,i)perylene	µg/kg	46	--	--
Benzo(k)fluoranthene	µg/kg	17	--	--
Biphenyl (1,1-Biphenyl)	µg/kg	18 U	--	--
bis(2-Chloroethoxy)methane	µg/kg	13 U	--	--
bis(2-Chloroethyl)ether	µg/kg	13 U	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	140	--	--
Butyl benzylphthalate (BBP)	µg/kg	23 U	--	--
Caprolactam	µg/kg	79 U	--	--
Carbazole	µg/kg	20 U	--	--
Chrysene	µg/kg	44	--	--
Di-n-butylphthalate (DBP)	µg/kg	23 U	--	--
Di-n-octyl phthalate (DnOP)	µg/kg	30 U	--	--
Dibenz(a,h)anthracene	µg/kg	7.3 U	--	--
Dibenzofuran	µg/kg	14 U	--	--
Diethyl phthalate	µg/kg	33 U	--	--
Dimethyl phthalate	µg/kg	15 U	--	--
Fluoranthene	µg/kg	66	--	--
Fluorene	µg/kg	2.9 U	--	--
Hexachlorobenzene	µg/kg	3.0 U	--	--
Hexachlorobutadiene	µg/kg	13 U	--	--
Hexachlorocyclopentadiene	µg/kg	65 U	--	--
Hexachloroethane	µg/kg	9.5 U	--	--
Indeno(1,2,3-cd)pyrene	µg/kg	29	--	--
Isophorone	µg/kg	13 U	--	--
N-Nitrosodi-n-propylamine	µg/kg	12 U	--	--
N-Nitrosodiphenylamine	µg/kg	13 U	--	--
Naphthalene	µg/kg	9.8 J	--	--
Nitrobenzene	µg/kg	14 U	--	--
Pentachlorophenol	µg/kg	61 U	--	--
Phenanthrene	µg/kg	35	--	--
Phenol	µg/kg	8.4 U	--	--
Pyrene	µg/kg	57	--	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-143**	**SS-148**	**SS-152**
	Sample Name:	**SS-38443-102918-JC-143**	**SS-38443-112018-JC-148**	**SS-38443-112018-JC-152**
	Sample Date:	**10/29/2018**	**11/20/2018**	**11/20/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Herbicides				
2,4,5-T	µg/kg	--	15 U	15 U
2,4,5-TP (Silvex)	µg/kg	--	16 U	16 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/kg	--	58 U	56 U
PCBs				
Aroclor-1016 (PCB-1016)	µg/kg	23 U	--	--
Aroclor-1221 (PCB-1221)	µg/kg	25 U	--	--
Aroclor-1232 (PCB-1232)	µg/kg	24 U	--	--
Aroclor-1242 (PCB-1242)	µg/kg	20 U	--	--
Aroclor-1248 (PCB-1248)	µg/kg	25 U	--	--
Aroclor-1254 (PCB-1254)	µg/kg	24 U	--	--
Aroclor-1260 (PCB-1260)	µg/kg	44 J	--	--
Pesticides				
4,4'-DDD	µg/kg	31 U	--	--
4,4'-DDE	µg/kg	32 U	--	--
4,4'-DDT	µg/kg	24 U	--	--
Aldrin	µg/kg	16 U	--	--
alpha-BHC	µg/kg	19 U	--	--
alpha-Chlordane	µg/kg	32 U	--	--
beta-BHC	µg/kg	36 U	--	--
delta-BHC	µg/kg	36 U	--	--
Dieldrin	µg/kg	23 U	--	--
Endosulfan I	µg/kg	25 U	--	--
Endosulfan II	µg/kg	31 U	--	--
Endosulfan sulfate	µg/kg	27 U	--	--
Endrin	µg/kg	40 U	--	--
Endrin aldehyde	µg/kg	28 U	--	--
Endrin ketone	µg/kg	19 U	--	--
gamma-BHC (lindane)	µg/kg	38 U	--	--
gamma-Chlordane	µg/kg	26 U	--	--
Heptachlor	µg/kg	33 U	--	--
Heptachlor epoxide	µg/kg	30 U	--	--
Methoxychlor	µg/kg	140 U	--	--
Toxaphene	µg/kg	530 U	--	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-143**	**SS-148**	**SS-152**
	Sample Name:	**SS-38443-102918-JC-143**	**SS-38443-112018-JC-148**	**SS-38443-112018-JC-152**
	Sample Date:	**10/29/2018**	**11/20/2018**	**11/20/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs)				
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
Total heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
Total hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
Total pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
Total tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Metals				
Aluminum	mg/kg	4700	--	--
Antimony	mg/kg	1.0	--	--
Arsenic	mg/kg	9.2	--	--
Barium	mg/kg	100	--	--
Beryllium	mg/kg	0.30	--	--
Cadmium	mg/kg	1.4	--	--
Calcium	mg/kg	120000	--	--
Chromium	mg/kg	13	--	--
Chromium III (trivalent)	mg/kg	12	--	--
Chromium VI (hexavalent)	mg/kg	0.90	--	--
Cobalt	mg/kg	3.9	--	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-143**	**SS-148**	**SS-152**
	Sample Name:	**SS-38443-102918-JC-143**	**SS-38443-112018-JC-148**	**SS-38443-112018-JC-152**
	Sample Date:	**10/29/2018**	**11/20/2018**	**11/20/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Metals				
Copper	mg/kg	130	--	--
Iron	mg/kg	15000	--	--
Lead	mg/kg	220	--	--
Lead - coarse fraction	mg/kg	--	--	--
Lead - fine fraction	mg/kg	--	--	--
Lead - total (calculated by fine/coarse fraction)	mg/kg	--	--	--
Magnesium	mg/kg	37000	--	--
Manganese	mg/kg	350	--	--
Mercury	mg/kg	0.021 J	--	--
Nickel	mg/kg	16	--	--
Potassium	mg/kg	950	--	--
Selenium	mg/kg	0.37 J	--	--
Silver	mg/kg	0.14 J	--	--
Sodium	mg/kg	220	--	--
Thallium	mg/kg	0.096 J	--	--
Vanadium	mg/kg	10	--	--
Zinc	mg/kg	890	--	--
General Chemistry				
Cyanide (total)	mg/kg	0.20 U	--	--
Soot carbon	mg/kg	--	--	--
Total organic carbon (TOC)	mg/kg	--	--	--

Notes:

R - Rejected
J - Estimated concentration
U - Not detected at the associated reporting limit
-- - Not applicable
UJ - Not detected; associated reporting limit is detected
PCBs - Polychlorinated Biphenyls

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-201**	**SS-201**	**SS-202**
	Sample Name:	**SS-38443-121018-JC-218**	**SS-38443-121018-JC-201**	**SS-38443-121018-JC-219**
	Sample Date:	**12/10/2018**	**12/10/2018**	**12/10/2018**
	Depth:	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/kg	0.74 U	0.72 U	0.87 U
1,1,2,2-Tetrachloroethane	µg/kg	1.3 U	1.3 U	1.5 U
1,1,2-Trichloroethane	µg/kg	1.0 U	1.0 U	1.2 U
1,1-Dichloroethane	µg/kg	0.62 U	0.61 U	0.73 U
1,1-Dichloroethene	µg/kg	0.81 U	0.79 U	0.96 U
1,2,4-Trichlorobenzene	µg/kg	0.51 U	0.50 U	0.61 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	3.2 U	3.2 U	3.8 U
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	0.69 U	0.68 U	0.82 U
1,2-Dichlorobenzene	µg/kg	1.0 U	0.98 U	1.2 U
1,2-Dichloroethane	µg/kg	0.69 U	0.68 U	0.82 U
1,2-Dichloropropane	µg/kg	0.76 U	0.75 U	0.90 U
1,3-Dichlorobenzene	µg/kg	0.73 U	0.72 U	0.86 U
1,4-Dichlorobenzene	µg/kg	0.79 U	0.78 U	0.93 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	3.2 U	3.1 U	3.8 U
2-Hexanone	µg/kg	3.7 U	3.6 U	4.3 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	3.3 U	3.3 U	3.9 U
Acetone	µg/kg	19 U	18 U	22 U
Benzene	µg/kg	0.63 U	0.61 U	0.74 U
Bromodichloromethane	µg/kg	0.61 U	0.60 U	0.72 U
Bromoform	µg/kg	2.2 U	2.1 U	2.5 U
Bromomethane (Methyl bromide)	µg/kg	0.89 U	0.87 U	1.0 U
Carbon disulfide	µg/kg	1.0 U	1.0 U	1.2 U
Carbon tetrachloride	µg/kg	2.9 U	2.9 U	3.4 U
Chlorobenzene	µg/kg	0.82 U	0.81 U	0.97 U
Chloroethane	µg/kg	1.1 U	1.1 U	1.3 U
Chloroform (Trichloromethane)	µg/kg	0.71 U	0.69 U	0.83 U
Chloromethane (Methyl chloride)	µg/kg	0.94 U	0.92 U	1.1 U
cis-1,2-Dichloroethene	µg/kg	0.58 U	0.57 U	0.69 U
cis-1,3-Dichloropropene	µg/kg	1.3 U	1.3 U	1.5 U
Cyclohexane	µg/kg	1.2 U	1.2 U	1.5 U
Dibromochloromethane	µg/kg	2.5 U	2.4 U	2.9 U
Dichlorodifluoromethane (CFC-12)	µg/kg	0.85 U	0.83 U	1.0 U
Ethylbenzene	µg/kg	0.94 U	0.92 U	1.1 U
Isopropyl benzene	µg/kg	0.75 U	0.73 U	0.88 U
Methyl acetate	µg/kg	3.1 U	3.0 U	3.6 U
Methyl cyclohexane	µg/kg	1.1 U	1.1 U	1.3 U
Methyl tert butyl ether (MTBE)	µg/kg	0.74 U	0.72 U	0.87 U
Methylene chloride	µg/kg	11 U	11 U	13 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-201**	**SS-201**	**SS-202**
	Sample Name:	**SS-38443-121018-JC-218**	**SS-38443-121018-JC-201**	**SS-38443-121018-JC-219**
	Sample Date:	**12/10/2018**	**12/10/2018**	**12/10/2018**
	Depth:	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
Styrene	µg/kg	1.0 U	1.0 U	1.2 U
Tetrachloroethene	µg/kg	0.66 U	0.64 U	0.77 U
Toluene	µg/kg	0.69 U	0.68 U	0.82 U
trans-1,2-Dichloroethene	µg/kg	0.42 U	0.41 U	0.49 U
trans-1,3-Dichloropropene	µg/kg	0.93 U	0.91 U	1.1 U
Trichloroethene	µg/kg	0.57 U	0.56 U	0.67 U
Trichlorofluoromethane (CFC-11)	µg/kg	0.97 U	0.95 U	1.1 U
Trifluorotrichloroethane (CFC-113)	µg/kg	1.2 U	1.1 U	1.4 U
Vinyl chloride	µg/kg	0.75 U	0.74 U	0.89 U
Xylenes (total)	µg/kg	1.4 U	1.4 U	1.7 U
Semivolatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	11 U	11 U	13 U
2,4,5-Trichlorophenol	µg/kg	78 U	79 U	87 U
2,4,6-Trichlorophenol	µg/kg	73 U	73 U	81 U
2,4-Dichlorophenol	µg/kg	50 U	50 U	56 U
2,4-Dimethylphenol	µg/kg	45 U	46 U	51 U
2,4-Dinitrophenol	µg/kg	160 U	160 U	180 U
2,4-Dinitrotoluene	µg/kg	70 U	71 U	78 U
2,6-Dinitrotoluene	µg/kg	63 U	64 U	71 U
2-Chloronaphthalene	µg/kg	16 U	16 U	18 U
2-Chlorophenol	µg/kg	11 U	11 U	13 U
2-Methylnaphthalene	µg/kg	15 J	7.9 J	27
2-Methylphenol	µg/kg	35 U	36 U	39 U
2-Nitroaniline	µg/kg	45 U	46 U	51 U
2-Nitrophenol	µg/kg	15 U	15 U	16 U
3&4-Methylphenol	µg/kg	33 U	33 U	37 U
3,3'-Dichlorobenzidine	µg/kg	49 U	49 U	54 U
3-Nitroaniline	µg/kg	56 U	56 U	62 U
4,6-Dinitro-2-methylphenol	µg/kg	91 U	92 U	100 U
4-Bromophenyl phenyl ether	µg/kg	16 U	16 U	18 U
4-Chloro-3-methylphenol	µg/kg	51 U	52 U	57 U
4-Chloroaniline	µg/kg	34 U	34 U	38 U
4-Chlorophenyl phenyl ether	µg/kg	16 U	16 U	18 U
4-Nitroaniline	µg/kg	68 U	69 U	76 U
4-Nitrophenol	µg/kg	110 U	110 U	120 U
Acenaphthene	µg/kg	38	22	29
Acenaphthylene	µg/kg	23	16 J	48

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-201**	**SS-201**	**SS-202**
	Sample Name:	**SS-38443-121018-JC-218**	**SS-38443-121018-JC-201**	**SS-38443-121018-JC-219**
	Sample Date:	**12/10/2018**	**12/10/2018**	**12/10/2018**
	Depth:	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**
Parameters	**Unit**			
Semivolatile Organic Compounds				
Acetophenone	µg/kg	12 U	13 U	14 U
Anthracene	µg/kg	130	71	79
Atrazine	µg/kg	41 U	41 U	45 U
Benzaldehyde	µg/kg	26 U	26 U	29 U
Benzo(a)anthracene	µg/kg	500	280	440
Benzo(a)pyrene	µg/kg	490	280	540
Benzo(b)fluoranthene	µg/kg	720	480	880
Benzo(g,h,i)perylene	µg/kg	350	190	300
Benzo(k)fluoranthene	µg/kg	340	170	380
Biphenyl (1,1-Biphenyl)	µg/kg	19 U	19 U	21 U
bis(2-Chloroethoxy)methane	µg/kg	14 U	14 U	15 U
bis(2-Chloroethyl)ether	µg/kg	14 U	14 U	15 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	93 U	240	140
Butyl benzylphthalate (BBP)	µg/kg	25 U	25 U	28 U
Caprolactam	µg/kg	85 U	86 U	95 U
Carbazole	µg/kg	84	39 J	54 J
Chrysene	µg/kg	590	330	560
Di-n-butylphthalate (DBP)	µg/kg	25 U	25 U	28 U
Di-n-octyl phthalate (DnOP)	µg/kg	32 U	32 U	35 U
Dibenz(a,h)anthracene	µg/kg	7.8 U	7.9 U	8.7 U
Dibenzofuran	µg/kg	22 J	15 U	16 J
Diethyl phthalate	µg/kg	35 U	36 U	39 U
Dimethyl phthalate	µg/kg	16 U	16 U	18 U
Fluoranthene	µg/kg	1300	760	1100
Fluorene	µg/kg	37	21	26
Hexachlorobenzene	µg/kg	3.2 U	3.3 U	3.6 U
Hexachlorobutadiene	µg/kg	14 U	14 U	15 U
Hexachlorocyclopentadiene	µg/kg	R	71 U	78 U
Hexachloroethane	µg/kg	10 U	10 U	11 U
Indeno(1,2,3-cd)pyrene	µg/kg	290	170	270
Isophorone	µg/kg	14 U	14 U	15 U
N-Nitrosodi-n-propylamine	µg/kg	12 U	13 U	14 U
N-Nitrosodiphenylamine	µg/kg	14 U	14 U	15 U
Naphthalene	µg/kg	11 J	2.8 U	22
Nitrobenzene	µg/kg	15 U	15 U	16 U
Pentachlorophenol	µg/kg	66 U	66 U	73 U
Phenanthrene	µg/kg	610	340	400
Phenol	µg/kg	9.1 U	9.2 U	10 U
Pyrene	µg/kg	820	490	630

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-201**	**SS-201**	**SS-202**
	Sample Name:	**SS-38443-121018-JC-218**	**SS-38443-121018-JC-201**	**SS-38443-121018-JC-219**
	Sample Date:	**12/10/2018**	**12/10/2018**	**12/10/2018**
	Depth:	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**
Parameters	**Unit**			
Herbicides				
2,4,5-T	µg/kg	14 U	14 U	16 U
2,4,5-TP (Silvex)	µg/kg	16 U	15 U	17 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/kg	54 U	54 U	59 U
PCBs				
Aroclor-1016 (PCB-1016)	µg/kg	24 U	25 U	27 U
Aroclor-1221 (PCB-1221)	µg/kg	27 U	27 U	29 U
Aroclor-1232 (PCB-1232)	µg/kg	25 U	26 U	28 U
Aroclor-1242 (PCB-1242)	µg/kg	21 U	21 U	23 U
Aroclor-1248 (PCB-1248)	µg/kg	27 U	27 U	29 U
Aroclor-1254 (PCB-1254)	µg/kg	93 J	72	330
Aroclor-1260 (PCB-1260)	µg/kg	24 U	25 U	27 U
Pesticides				
4,4'-DDD	µg/kg	1.7 U	1.7 U	9.4 U
4,4'-DDE	µg/kg	2.0 J	1.8 U	9.6 U
4,4'-DDT	µg/kg	1.9 NJ	2.0 J	7.2 U
Aldrin	µg/kg	0.87 U	0.91 U	4.9 U
alpha-BHC	µg/kg	1.0 U	1.1 U	5.8 U
alpha-Chlordane	µg/kg	1.7 U	1.8 U	9.5 U
beta-BHC	µg/kg	1.9 U	2.0 U	11 U
delta-BHC	µg/kg	1.9 U	2.0 U	11 U
Dieldrin	µg/kg	1.2 U	1.3 U	7.0 U
Endosulfan I	µg/kg	1.4 U	1.4 U	7.6 U
Endosulfan II	µg/kg	1.7 U	1.7 U	9.4 U
Endosulfan sulfate	µg/kg	1.4 U	1.5 U	8.1 U
Endrin	µg/kg	2.1 U	2.2 U	12 U
Endrin aldehyde	µg/kg	1.5 U	1.5 U	8.3 U
Endrin ketone	µg/kg	1.0 U	1.0 U	5.7 U
gamma-BHC (lindane)	µg/kg	2.0 U	2.1 U	11 U
gamma-Chlordane	µg/kg	1.4 U	1.5 U	7.8 U
Heptachlor	µg/kg	1.8 U	1.9 U	10 U
Heptachlor epoxide	µg/kg	1.6 U	1.7 U	9.2 U
Methoxychlor	µg/kg	7.4 U	7.7 U	42 U
Toxaphene	µg/kg	28 U	29 U	160 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-201**	**SS-201**	**SS-202**
	Sample Name:	**SS-38443-121018-JC-218**	**SS-38443-121018-JC-201**	**SS-38443-121018-JC-219**
	Sample Date:	**12/10/2018**	**12/10/2018**	**12/10/2018**
	Depth:	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**
Parameters	**Unit**			
Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs)				
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
Total heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
Total hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
Total pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
Total tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Metals				
Aluminum	mg/kg	7200	6400	11000
Antimony	mg/kg	0.21 J	0.19 J	0.29 J
Arsenic	mg/kg	7.1	6.7	9.5
Barium	mg/kg	75	73	140
Beryllium	mg/kg	0.37	0.32	0.57
Cadmium	mg/kg	0.52	0.45	1.4
Calcium	mg/kg	74000	82000	59000
Chromium	mg/kg	16	15	37
Chromium III (trivalent)	mg/kg	--	--	--
Chromium VI (hexavalent)	mg/kg	--	--	--
Cobalt	mg/kg	5.1	5.0	7.9

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-201**	**SS-201**	**SS-202**
	Sample Name:	**SS-38443-121018-JC-218**	**SS-38443-121018-JC-201**	**SS-38443-121018-JC-219**
	Sample Date:	**12/10/2018**	**12/10/2018**	**12/10/2018**
	Depth:	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**
Parameters	**Unit**			
Metals				
Copper	mg/kg	21	20	39
Iron	mg/kg	14000	13000	20000
Lead	mg/kg	39	29	73
Lead - coarse fraction	mg/kg	--	--	--
Lead - fine fraction	mg/kg	--	--	--
Lead - total (calculated by fine/coarse fraction)	mg/kg	--	--	--
Magnesium	mg/kg	32000	31000	22000
Manganese	mg/kg	370	350	560
Mercury	mg/kg	0.057 J	0.058 J	0.14 J
Nickel	mg/kg	16	15	28
Potassium	mg/kg	1000	870	1400
Selenium	mg/kg	0.34 J	0.38 J	0.70 J
Silver	mg/kg	0.28	0.23	0.80
Sodium	mg/kg	100 J	110 J	94 J
Thallium	mg/kg	0.21	0.19	0.35
Vanadium	mg/kg	18	17	25
Zinc	mg/kg	76	68	130
General Chemistry				
Cyanide (total)	mg/kg	0.20 U	0.24 U	0.24 U
Soot carbon	mg/kg	--	--	--
Total organic carbon (TOC)	mg/kg	--	--	--

Notes:

R - Rejected
J - Estimated concentration
U - Not detected at the associated reporting limit
-- - Not applicable
UJ - Not detected; associated reporting limit is detected
PCBs - Polychlorinated Biphenyls

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-202**	**SS-203**	**SS-203**
	Sample Name:	**SS-38443-121018-JC-202**	**SS-38443-121018-JC-220**	**SS-38443-121018-JC-203**
	Sample Date:	**12/10/2018**	**12/10/2018**	**12/10/2018**
	Depth:	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/kg	1.1 U	0.91 U	0.98 U
1,1,2,2-Tetrachloroethane	µg/kg	1.9 U	1.6 U	1.7 U
1,1,2-Trichloroethane	µg/kg	1.5 U	1.3 U	1.3 U
1,1-Dichloroethane	µg/kg	0.92 U	0.77 U	0.83 U
1,1-Dichloroethene	µg/kg	1.2 U	1.0 U	1.1 U
1,2,4-Trichlorobenzene	µg/kg	0.76 U	0.63 U	0.68 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	4.8 U	4.0 U	4.3 U
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	1.0 U	0.85 U	0.92 U
1,2-Dichlorobenzene	µg/kg	1.5 U	1.2 U	1.3 U
1,2-Dichloroethane	µg/kg	1.0 U	0.85 U	0.92 U
1,2-Dichloropropane	µg/kg	1.1 U	0.94 U	1.0 U
1,3-Dichlorobenzene	µg/kg	1.1 U	0.90 U	0.97 U
1,4-Dichlorobenzene	µg/kg	1.2 U	0.97 U	1.1 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	4.7 U	3.9 U	4.2 U
2-Hexanone	µg/kg	5.4 U	4.5 U	4.9 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	4.9 U	4.1 U	4.4 U
Acetone	µg/kg	28 U	23 U	25 U
Benzene	µg/kg	0.93 U	0.77 U	0.83 U
Bromodichloromethane	µg/kg	0.90 U	0.75 U	0.81 U
Bromoform	µg/kg	3.2 U	2.7 U	2.9 U
Bromomethane (Methyl bromide)	µg/kg	1.3 U	1.1 U	1.2 U
Carbon disulfide	µg/kg	1.5 U	1.3 U	1.4 U
Carbon tetrachloride	µg/kg	4.3 U	3.6 U	3.9 U
Chlorobenzene	µg/kg	1.2 U	1.0 U	1.1 U
Chloroethane	µg/kg	1.6 U	1.3 U	1.5 U
Chloroform (Trichloromethane)	µg/kg	1.0 U	0.87 U	0.94 U
Chloromethane (Methyl chloride)	µg/kg	1.4 U	1.2 U	1.2 U
cis-1,2-Dichloroethene	µg/kg	0.86 U	0.72 U	0.78 U
cis-1,3-Dichloropropene	µg/kg	1.9 U	1.6 U	1.7 U
Cyclohexane	µg/kg	1.8 U	1.5 U	1.6 U
Dibromochloromethane	µg/kg	3.7 U	3.1 U	3.3 U
Dichlorodifluoromethane (CFC-12)	µg/kg	1.3 U	1.0 U	1.1 U
Ethylbenzene	µg/kg	1.4 U	1.2 U	1.2 U
Isopropyl benzene	µg/kg	1.1 U	0.92 U	0.99 U
Methyl acetate	µg/kg	4.5 U	3.8 U	4.1 U
Methyl cyclohexane	µg/kg	1.6 U	1.4 U	1.5 U
Methyl tert butyl ether (MTBE)	µg/kg	1.1 U	0.91 U	0.98 U
Methylene chloride	µg/kg	16 U	13 U	14 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-202**	**SS-203**	**SS-203**
	Sample Name:	**SS-38443-121018-JC-202**	**SS-38443-121018-JC-220**	**SS-38443-121018-JC-203**
	Sample Date:	**12/10/2018**	**12/10/2018**	**12/10/2018**
	Depth:	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
Styrene	µg/kg	1.5 U	1.3 U	1.4 U
Tetrachloroethene	µg/kg	0.97 U	0.81 U	0.87 U
Toluene	µg/kg	1.0 U	0.85 U	0.92 U
trans-1,2-Dichloroethene	µg/kg	0.62 U	0.51 U	0.55 U
trans-1,3-Dichloropropene	µg/kg	1.4 U	1.1 U	1.2 U
Trichloroethene	µg/kg	0.84 U	0.70 U	0.75 U
Trichlorofluoromethane (CFC-11)	µg/kg	1.4 U	1.2 U	1.3 U
Trifluorotrichloroethane (CFC-113)	µg/kg	1.7 U	1.4 U	1.5 U
Vinyl chloride	µg/kg	1.1 U	0.92 U	1.0 U
Xylenes (total)	µg/kg	2.1 U	1.8 U	1.9 U
Semivolatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	13 U	13 U	13 U
2,4,5-Trichlorophenol	µg/kg	90 U	89 U	92 U
2,4,6-Trichlorophenol	µg/kg	83 U	82 U	86 U
2,4-Dichlorophenol	µg/kg	57 U	57 U	59 U
2,4-Dimethylphenol	µg/kg	52 U	52 U	53 U
2,4-Dinitrophenol	µg/kg	180 U	180 U	190 U
2,4-Dinitrotoluene	µg/kg	81 U	80 U	83 U
2,6-Dinitrotoluene	µg/kg	73 U	72 U	75 U
2-Chloronaphthalene	µg/kg	18 U	18 U	19 U
2-Chlorophenol	µg/kg	13 U	13 U	13 U
2-Methylnaphthalene	µg/kg	16 J	16 J	10 J
2-Methylphenol	µg/kg	40 U	40 U	41 U
2-Nitroaniline	µg/kg	52 U	52 U	53 U
2-Nitrophenol	µg/kg	17 U	17 U	17 U
3&4-Methylphenol	µg/kg	38 U	37 U	39 U
3,3'-Dichlorobenzidine	µg/kg	56 U	55 U	57 U
3-Nitroaniline	µg/kg	64 U	63 U	65 U
4,6-Dinitro-2-methylphenol	µg/kg	100 U	100 U	110 U
4-Bromophenyl phenyl ether	µg/kg	18 U	18 U	19 U
4-Chloro-3-methylphenol	µg/kg	59 U	58 U	60 U
4-Chloroaniline	µg/kg	39 U	39 U	40 U
4-Chlorophenyl phenyl ether	µg/kg	18 U	18 U	19 U
4-Nitroaniline	µg/kg	78 U	77 U	80 U
4-Nitrophenol	µg/kg	120 U	120 U	130 U
Acenaphthene	µg/kg	19 J	14 J	14 J
Acenaphthylene	µg/kg	36	28	25

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-202**	**SS-203**	**SS-203**
	Sample Name:	**SS-38443-121018-JC-202**	**SS-38443-121018-JC-220**	**SS-38443-121018-JC-203**
	Sample Date:	**12/10/2018**	**12/10/2018**	**12/10/2018**
	Depth:	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**
Parameters	**Unit**			
Semivolatile Organic Compounds				
Acetophenone	µg/kg	14 U	14 U	15 U
Anthracene	µg/kg	65	39	40
Atrazine	µg/kg	47 U	46 U	48 U
Benzaldehyde	µg/kg	34 J	30 U	31 U
Benzo(a)anthracene	µg/kg	420	280	270
Benzo(a)pyrene	µg/kg	540	330	350
Benzo(b)fluoranthene	µg/kg	990	560	540
Benzo(g,h,i)perylene	µg/kg	300	310	270
Benzo(k)fluoranthene	µg/kg	380	140	180
Biphenyl (1,1-Biphenyl)	µg/kg	22 U	22 U	23 U
bis(2-Chloroethoxy)methane	µg/kg	16 U	15 U	16 U
bis(2-Chloroethyl)ether	µg/kg	16 U	15 U	16 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	160	150	84 J
Butyl benzylphthalate (BBP)	µg/kg	29 U	28 U	29 U
Caprolactam	µg/kg	98 U	97 U	100 U
Carbazole	µg/kg	57 J	29 J	33 J
Chrysene	µg/kg	600	360	400
Di-n-butylphthalate (DBP)	µg/kg	29 U	28 J	29 U
Di-n-octyl phthalate (DnOP)	µg/kg	36 U	36 U	37 U
Dibenz(a,h)anthracene	µg/kg	9.0 U	58	66
Dibenzofuran	µg/kg	22 J	17 U	17 U
Diethyl phthalate	µg/kg	40 U	40 U	41 U
Dimethyl phthalate	µg/kg	18 U	18 U	19 U
Fluoranthene	µg/kg	1300	560	640
Fluorene	µg/kg	20	14 J	12 J
Hexachlorobenzene	µg/kg	3.7 U	3.7 U	3.8 U
Hexachlorobutadiene	µg/kg	16 U	15 U	16 U
Hexachlorocyclopentadiene	µg/kg	81 U	R	83 U
Hexachloroethane	µg/kg	12 U	12 U	12 U
Indeno(1,2,3-cd)pyrene	µg/kg	270	250	240
Isophorone	µg/kg	16 U	15 U	16 U
N-Nitrosodi-n-propylamine	µg/kg	14 U	14 U	15 U
N-Nitrosodiphenylamine	µg/kg	16 U	15 U	16 U
Naphthalene	µg/kg	16 J	16 J	11 J
Nitrobenzene	µg/kg	17 U	17 U	17 U
Pentachlorophenol	µg/kg	75 U	75 U	77 U
Phenanthrene	µg/kg	350	200	210
Phenol	µg/kg	10 U	10 U	11 U
Pyrene	µg/kg	780	470	480

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-202**	**SS-203**	**SS-203**
	Sample Name:	**SS-38443-121018-JC-202**	**SS-38443-121018-JC-220**	**SS-38443-121018-JC-203**
	Sample Date:	**12/10/2018**	**12/10/2018**	**12/10/2018**
	Depth:	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**
Parameters	**Unit**			
Herbicides				
2,4,5-T	µg/kg	17 U	17 U	17 U
2,4,5-TP (Silvex)	µg/kg	18 U	18 U	19 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/kg	63 U	64 U	65 U
PCBs				
Aroclor-1016 (PCB-1016)	µg/kg	28 U	280 U	30 U
Aroclor-1221 (PCB-1221)	µg/kg	30 U	300 U	33 U
Aroclor-1232 (PCB-1232)	µg/kg	29 U	290 U	32 U
Aroclor-1242 (PCB-1242)	µg/kg	24 U	240 U	26 U
Aroclor-1248 (PCB-1248)	µg/kg	30 U	300 U	33 U
Aroclor-1254 (PCB-1254)	µg/kg	210	2800	150
Aroclor-1260 (PCB-1260)	µg/kg	28 U	280 U	30 U
Pesticides				
4,4'-DDD	µg/kg	9.6 U	1.9 U	1.9 U
4,4'-DDE	µg/kg	9.8 U	1.9 U	4.5 J
4,4'-DDT	µg/kg	7.3 U	1.4 U	3.6 NJ
Aldrin	µg/kg	5.0 U	0.99 U	0.99 U
alpha-BHC	µg/kg	5.9 U	1.2 U	1.2 U
alpha-Chlordane	µg/kg	9.7 U	1.9 U	1.9 U
beta-BHC	µg/kg	11 U	2.2 U	2.2 U
delta-BHC	µg/kg	11 U	2.2 U	2.2 U
Dieldrin	µg/kg	7.1 U	1.4 U	1.4 U
Endosulfan I	µg/kg	7.8 U	1.5 U	1.5 U
Endosulfan II	µg/kg	9.6 U	1.9 U	1.9 U
Endosulfan sulfate	µg/kg	8.3 U	1.6 U	1.6 U
Endrin	µg/kg	12 U	2.4 U	2.4 U
Endrin aldehyde	µg/kg	8.5 U	2.0 NJ	1.7 U
Endrin ketone	µg/kg	5.8 U	1.1 U	1.1 U
gamma-BHC (lindane)	µg/kg	12 U	2.3 U	2.3 U
gamma-Chlordane	µg/kg	8.0 U	1.6 U	1.6 U
Heptachlor	µg/kg	10 U	2.0 U	2.0 U
Heptachlor epoxide	µg/kg	9.3 U	1.8 U	1.9 U
Methoxychlor	µg/kg	43 U	8.4 U	8.4 U
Toxaphene	µg/kg	160 U	32 U	32 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-202**	**SS-203**	**SS-203**
	Sample Name:	**SS-38443-121018-JC-202**	**SS-38443-121018-JC-220**	**SS-38443-121018-JC-203**
	Sample Date:	**12/10/2018**	**12/10/2018**	**12/10/2018**
	Depth:	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**
Parameters	**Unit**			
Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs)				
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
Total heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
Total hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
Total pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
Total tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Metals				
Aluminum	mg/kg	9600	11000	9800
Antimony	mg/kg	0.26 J	0.31 J	0.26 J
Arsenic	mg/kg	8.2	10	8.6
Barium	mg/kg	130	150	130
Beryllium	mg/kg	0.51	0.74	0.51
Cadmium	mg/kg	0.70	1.7	0.69
Calcium	mg/kg	63000	57000	66000
Chromium	mg/kg	20	40	21
Chromium III (trivalent)	mg/kg	--	--	--
Chromium VI (hexavalent)	mg/kg	--	--	--
Cobalt	mg/kg	7.1	8.4	7.4

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-202**	**SS-203**	**SS-203**
	Sample Name:	**SS-38443-121018-JC-202**	**SS-38443-121018-JC-220**	**SS-38443-121018-JC-203**
	Sample Date:	**12/10/2018**	**12/10/2018**	**12/10/2018**
	Depth:	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**
Parameters	**Unit**			
Metals				
Copper	mg/kg	27	44	27
Iron	mg/kg	19000	21000	19000
Lead	mg/kg	34	75	34
Lead - coarse fraction	mg/kg	--	--	--
Lead - fine fraction	mg/kg	--	--	--
Lead - total (calculated by fine/coarse fraction)	mg/kg	--	--	--
Magnesium	mg/kg	22000	22000	24000
Manganese	mg/kg	540	590	580
Mercury	mg/kg	0.12	0.14	0.090 J
Nickel	mg/kg	21	29	21
Potassium	mg/kg	1500	1300	1500
Selenium	mg/kg	0.68 J	0.81 J	0.70 J
Silver	mg/kg	0.33	0.92	0.37
Sodium	mg/kg	92 J	91 J	93 J
Thallium	mg/kg	0.31	0.37	0.32
Vanadium	mg/kg	22	25	22
Zinc	mg/kg	110	140	110
General Chemistry				
Cyanide (total)	mg/kg	0.26 U	0.23 U	0.23 U
Soot carbon	mg/kg	--	--	--
Total organic carbon (TOC)	mg/kg	--	--	--

Notes:

R - Rejected
J - Estimated concentration
U - Not detected at the associated reporting limit
-- - Not applicable
UJ - Not detected; associated reporting limit is detected
PCBs - Polychlorinated Biphenyls

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

Location ID:		**SS-204**	**SS-204**	**SS-204**
Sample Name:		**SS-38443-121018-JC-221**	**SS-38443-121018-JC-200**	**SS-38443-121018-JC-204**
Sample Date:		**12/10/2018**	**12/10/2018**	**12/10/2018**
Depth:		**0.5-2 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**
			Duplicate	
Parameters	**Unit**			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/kg	0.89 U	0.89 U	0.99 U
1,1,2,2-Tetrachloroethane	µg/kg	1.5 U	R	1.7 U
1,1,2-Trichloroethane	µg/kg	1.2 U	1.2 U	1.4 U
1,1-Dichloroethane	µg/kg	0.75 U	0.75 U	0.84 U
1,1-Dichloroethene	µg/kg	0.97 U	0.98 U	1.1 U
1,2,4-Trichlorobenzene	µg/kg	0.62 U	R	0.69 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	3.9 U	R	4.4 U
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	0.83 U	0.84 U	0.93 U
1,2-Dichlorobenzene	µg/kg	1.2 U	R	1.3 U
1,2-Dichloroethane	µg/kg	0.83 U	0.84 U	0.93 U
1,2-Dichloropropane	µg/kg	0.92 U	0.92 U	1.0 U
1,3-Dichlorobenzene	µg/kg	0.88 U	R	0.99 U
1,4-Dichlorobenzene	µg/kg	0.95 U	R	1.1 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	3.8 U	3.9 U	4.3 U
2-Hexanone	µg/kg	4.4 U	4.4 U	4.9 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	4.0 U	4.0 U	4.5 U
Acetone	µg/kg	23 U	23 U	25 U
Benzene	µg/kg	0.75 U	0.76 U	0.84 U
Bromodichloromethane	µg/kg	0.73 U	0.74 U	0.82 U
Bromoform	µg/kg	2.6 U	2.6 U	2.9 U
Bromomethane (Methyl bromide)	µg/kg	1.1 U	1.1 U	1.2 U
Carbon disulfide	µg/kg	1.3 U	1.3 U	1.4 U
Carbon tetrachloride	µg/kg	3.5 U	3.5 U	3.9 U
Chlorobenzene	µg/kg	0.99 U	0.99 U	1.1 U
Chloroethane	µg/kg	1.3 U	1.3 U	1.5 U
Chloroform (Trichloromethane)	µg/kg	0.85 U	0.86 U	0.95 U
Chloromethane (Methyl chloride)	µg/kg	1.1 U	1.1 U	1.3 U
cis-1,2-Dichloroethene	µg/kg	0.70 U	0.71 U	0.79 U
cis-1,3-Dichloropropene	µg/kg	1.6 U	1.6 U	1.7 U
Cyclohexane	µg/kg	1.5 U	1.5 U	1.7 U
Dibromochloromethane	µg/kg	3.0 U	3.0 U	3.4 U
Dichlorodifluoromethane (CFC-12)	µg/kg	1.0 U	1.0 U	1.1 U
Ethylbenzene	µg/kg	1.1 U	1.1 U	1.3 U
Isopropyl benzene	µg/kg	0.90 U	0.90 U	1.0 U
Methyl acetate	µg/kg	3.7 U	3.7 U	4.1 U
Methyl cyclohexane	µg/kg	1.3 U	1.3 U	1.5 U
Methyl tert butyl ether (MTBE)	µg/kg	0.89 U	0.89 U	0.99 U
Methylene chloride	µg/kg	13 U	13 U	15 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-204**	**SS-204**	**SS-204**
	Sample Name:	**SS-38443-121018-JC-221**	**SS-38443-121018-JC-200**	**SS-38443-121018-JC-204**
	Sample Date:	**12/10/2018**	**12/10/2018**	**12/10/2018**
	Depth:	**0.5-2 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**
			Duplicate	
Parameters	**Unit**			
Volatile Organic Compounds				
Styrene	µg/kg	1.3 U	1.3 U	1.4 U
Tetrachloroethene	µg/kg	0.79 U	0.79 U	0.88 U
Toluene	µg/kg	0.83 U	0.84 U	0.94 U
trans-1,2-Dichloroethene	µg/kg	0.50 U	0.50 U	0.56 U
trans-1,3-Dichloropropene	µg/kg	1.1 U	1.1 U	1.3 U
Trichloroethene	µg/kg	0.68 U	0.69 U	0.77 U
Trichlorofluoromethane (CFC-11)	µg/kg	1.2 U	1.2 U	1.3 U
Trifluorotrichloroethane (CFC-113)	µg/kg	1.4 U	1.4 U	1.6 U
Vinyl chloride	µg/kg	0.90 U	0.91 U	1.0 U
Xylenes (total)	µg/kg	1.7 U	1.7 U	1.9 U
Semivolatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	13 U	13 U	13 U
2,4,5-Trichlorophenol	µg/kg	89 U	90 U	91 U
2,4,6-Trichlorophenol	µg/kg	82 U	83 U	84 U
2,4-Dichlorophenol	µg/kg	57 U	57 U	58 U
2,4-Dimethylphenol	µg/kg	51 U	52 U	53 U
2,4-Dinitrophenol	µg/kg	180 U	180 U	190 U
2,4-Dinitrotoluene	µg/kg	80 U	81 U	81 U
2,6-Dinitrotoluene	µg/kg	72 U	73 U	74 U
2-Chloronaphthalene	µg/kg	18 U	18 U	18 U
2-Chlorophenol	µg/kg	13 U	13 U	13 U
2-Methylnaphthalene	µg/kg	12 J	14 J	9.6 J
2-Methylphenol	µg/kg	40 U	40 U	41 U
2-Nitroaniline	µg/kg	51 U	52 U	53 U
2-Nitrophenol	µg/kg	17 U	17 U	17 U
3&4-Methylphenol	µg/kg	37 U	38 U	38 U
3,3'-Dichlorobenzidine	µg/kg	55 U	56 U	56 U
3-Nitroaniline	µg/kg	63 U	64 U	64 U
4,6-Dinitro-2-methylphenol	µg/kg	100 U	100 U	110 U
4-Bromophenyl phenyl ether	µg/kg	18 U	18 U	18 U
4-Chloro-3-methylphenol	µg/kg	58 U	58 U	59 U
4-Chloroaniline	µg/kg	39 U	39 U	39 U
4-Chlorophenyl phenyl ether	µg/kg	18 U	18 U	18 U
4-Nitroaniline	µg/kg	77 U	78 U	79 U
4-Nitrophenol	µg/kg	120 U	120 U	120 U
Acenaphthene	µg/kg	13 J	14 J	9.6 J
Acenaphthylene	µg/kg	27	36	25

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-204**	**SS-204**	**SS-204**
	Sample Name:	**SS-38443-121018-JC-221**	**SS-38443-121018-JC-200**	**SS-38443-121018-JC-204**
	Sample Date:	**12/10/2018**	**12/10/2018**	**12/10/2018**
	Depth:	**0.5-2 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**
			Duplicate	
Parameters	**Unit**			
Semivolatile Organic Compounds				
Acetophenone	µg/kg	14 U	14 U	14 U
Anthracene	µg/kg	36	41	36
Atrazine	µg/kg	46 U	47 U	47 U
Benzaldehyde	µg/kg	30 U	30 U	30 U
Benzo(a)anthracene	µg/kg	260	290	270
Benzo(a)pyrene	µg/kg	300	340	310
Benzo(b)fluoranthene	µg/kg	500	560	510
Benzo(g,h,i)perylene	µg/kg	220	260	240
Benzo(k)fluoranthene	µg/kg	160	180	190
Biphenyl (1,1-Biphenyl)	µg/kg	22 U	22 U	22 U
bis(2-Chloroethoxy)methane	µg/kg	15 U	16 U	16 U
bis(2-Chloroethyl)ether	µg/kg	15 U	16 U	16 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	93	96	78 J
Butyl benzylphthalate (BBP)	µg/kg	30 J	29 U	29 U
Caprolactam	µg/kg	96 U	97 U	99 U
Carbazole	µg/kg	31 J	35 J	30 J
Chrysene	µg/kg	340	370	360
Di-n-butylphthalate (DBP)	µg/kg	28 J	29 U	29 U
Di-n-octyl phthalate (DnOP)	µg/kg	36 U	36 U	37 U
Dibenz(a,h)anthracene	µg/kg	68	76	64
Dibenzofuran	µg/kg	17 U	17 U	17 U
Diethyl phthalate	µg/kg	40 U	40 U	41 U
Dimethyl phthalate	µg/kg	18 U	18 U	18 U
Fluoranthene	µg/kg	550	590	570
Fluorene	µg/kg	12 J	14 J	10 J
Hexachlorobenzene	µg/kg	3.7 U	3.7 U	3.7 U
Hexachlorobutadiene	µg/kg	15 U	16 U	16 U
Hexachlorocyclopentadiene	µg/kg	80 U	81 U	81 U
Hexachloroethane	µg/kg	12 U	12 U	12 U
Indeno(1,2,3-cd)pyrene	µg/kg	200	250	220
Isophorone	µg/kg	15 U	16 U	16 U
N-Nitrosodi-n-propylamine	µg/kg	14 U	14 U	14 U
N-Nitrosodiphenylamine	µg/kg	15 U	16 U	16 U
Naphthalene	µg/kg	11 J	11 J	9.3 J
Nitrobenzene	µg/kg	17 U	17 U	17 U
Pentachlorophenol	µg/kg	74 UJ	75 UJ	76 UJ
Phenanthrene	µg/kg	190	200	190
Phenol	µg/kg	10 U	10 U	11 U
Pyrene	µg/kg	460	520	480

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-204**	**SS-204**	**SS-204**
	Sample Name:	**SS-38443-121018-JC-221**	**SS-38443-121018-JC-200**	**SS-38443-121018-JC-204**
	Sample Date:	**12/10/2018**	**12/10/2018**	**12/10/2018**
	Depth:	**0.5-2 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**
			Duplicate	
Parameters	**Unit**			
Herbicides				
2,4,5-T	µg/kg	17 U	16 U	17 U
2,4,5-TP (Silvex)	µg/kg	18 U	17 U	19 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/kg	63 U	61 U	66 U
PCBs				
Aroclor-1016 (PCB-1016)	µg/kg	28 U	28 U	29 U
Aroclor-1221 (PCB-1221)	µg/kg	31 U	30 U	31 U
Aroclor-1232 (PCB-1232)	µg/kg	30 U	29 U	30 U
Aroclor-1242 (PCB-1242)	µg/kg	24 U	24 U	25 U
Aroclor-1248 (PCB-1248)	µg/kg	31 U	30 U	31 U
Aroclor-1254 (PCB-1254)	µg/kg	210	200	160 J
Aroclor-1260 (PCB-1260)	µg/kg	28 U	28 U	29 U
Pesticides				
4,4'-DDD	µg/kg	9.6 U	9.3 U	4.1 NJ
4,4'-DDE	µg/kg	9.8 U	9.5 U	2.0 U
4,4'-DDT	µg/kg	7.3 U	7.1 U	2.7 NJ
Aldrin	µg/kg	5.0 U	4.8 U	1.0 U
alpha-BHC	µg/kg	5.9 U	5.7 U	1.2 U
alpha-Chlordane	µg/kg	9.7 U	9.4 U	2.0 U
beta-BHC	µg/kg	11 U	11 U	2.3 U
delta-BHC	µg/kg	11 U	11 U	2.2 U
Dieldrin	µg/kg	7.1 U	6.9 U	1.5 U
Endosulfan I	µg/kg	7.8 U	7.5 U	1.6 U
Endosulfan II	µg/kg	9.6 U	9.3 U	2.0 U
Endosulfan sulfate	µg/kg	8.3 U	8.0 U	1.7 U
Endrin	µg/kg	12 U	12 U	2.5 U
Endrin aldehyde	µg/kg	8.5 U	8.2 U	1.7 U
Endrin ketone	µg/kg	5.8 U	5.6 U	1.2 U
gamma-BHC (lindane)	µg/kg	12 U	11 U	2.4 U
gamma-Chlordane	µg/kg	8.0 U	7.7 U	1.6 U
Heptachlor	µg/kg	10 U	9.9 U	2.1 U
Heptachlor epoxide	µg/kg	9.3 U	9.0 U	1.9 U
Methoxychlor	µg/kg	42 U	41 U	8.7 U
Toxaphene	µg/kg	160 U	160 U	33 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-204**	**SS-204**	**SS-204**
	Sample Name:	**SS-38443-121018-JC-221**	**SS-38443-121018-JC-200**	**SS-38443-121018-JC-204**
	Sample Date:	**12/10/2018**	**12/10/2018**	**12/10/2018**
	Depth:	**0.5-2 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**
			Duplicate	
Parameters	**Unit**			
Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs)				
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
Total heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
Total hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
Total pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
Total tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Metals				
Aluminum	mg/kg	12000	12000	10000
Antimony	mg/kg	0.31 J	0.30 J	0.25 J
Arsenic	mg/kg	9.8	10	8.5
Barium	mg/kg	150	150	130
Beryllium	mg/kg	0.61	0.63	0.51
Cadmium	mg/kg	1.0	1.1	0.64
Calcium	mg/kg	58000	57000	65000
Chromium	mg/kg	28	30	20
Chromium III (trivalent)	mg/kg	--	--	--
Chromium VI (hexavalent)	mg/kg	--	--	--
Cobalt	mg/kg	8.3	8.5	7.4

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-204**	**SS-204**	**SS-204**
	Sample Name:	**SS-38443-121018-JC-221**	**SS-38443-121018-JC-200**	**SS-38443-121018-JC-204**
	Sample Date:	**12/10/2018**	**12/10/2018**	**12/10/2018**
	Depth:	**0.5-2 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**
			Duplicate	
Parameters	**Unit**			
Metals				
Copper	mg/kg	33	34	26
Iron	mg/kg	22000	22000	19000
Lead	mg/kg	47	52	32
Lead - coarse fraction	mg/kg	--	--	--
Lead - fine fraction	mg/kg	--	--	--
Lead - total (calculated by fine/coarse fraction)	mg/kg	--	--	--
Magnesium	mg/kg	21000	21000	24000
Manganese	mg/kg	590	590	560
Mercury	mg/kg	0.11 J	0.12 J	0.086 J
Nickel	mg/kg	26	28	21
Potassium	mg/kg	1500	1500	1400
Selenium	mg/kg	0.74 J	0.76 J	0.71 J
Silver	mg/kg	0.65	0.70	0.33
Sodium	mg/kg	96 J	100 J	97 J
Thallium	mg/kg	0.38	0.38	0.33
Vanadium	mg/kg	27	27	23
Zinc	mg/kg	120	130	100
General Chemistry				
Cyanide (total)	mg/kg	0.22 U	0.23 U	0.29 J
Soot carbon	mg/kg	--	--	--
Total organic carbon (TOC)	mg/kg	--	--	--

Notes:

R - Rejected
J - Estimated concentration
U - Not detected at the associated reporting limit
-- - Not applicable
UJ - Not detected; associated reporting limit is detected
PCBs - Polychlorinated Biphenyls

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-205**	**SS-205**	**SS-206**
	Sample Name:	**SS-38443-121018-JC-222**	**SS-38443-121018-JC-205**	**SS-38443-121018-JC-223**
	Sample Date:	**12/10/2018**	**12/10/2018**	**12/10/2018**
	Depth:	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/kg	0.90 U	0.98 U	0.86 U
1,1,2,2-Tetrachloroethane	µg/kg	1.6 U	R	1.5 U
1,1,2-Trichloroethane	µg/kg	1.2 U	1.4 U	1.2 U
1,1-Dichloroethane	µg/kg	0.76 U	0.83 U	0.73 U
1,1-Dichloroethene	µg/kg	1.0 U	1.1 U	0.95 U
1,2,4-Trichlorobenzene	µg/kg	0.63 U	R	0.60 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	4.0 U	R	3.8 U
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	0.85 U	0.92 U	0.81 U
1,2-Dichlorobenzene	µg/kg	1.2 U	R	1.2 U
1,2-Dichloroethane	µg/kg	0.85 U	0.92 U	0.81 U
1,2-Dichloropropane	µg/kg	0.94 U	1.0 U	0.89 U
1,3-Dichlorobenzene	µg/kg	0.90 U	R	0.86 U
1,4-Dichlorobenzene	µg/kg	0.97 U	R	0.93 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	3.9 U	4.2 U	3.7 U
2-Hexanone	µg/kg	4.5 U	4.9 U	4.3 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	4.1 U	4.4 U	3.9 U
Acetone	µg/kg	23 U	25 U	22 U
Benzene	µg/kg	0.77 U	0.83 U	0.73 U
Bromodichloromethane	µg/kg	0.75 U	0.81 U	0.71 U
Bromoform	µg/kg	2.6 U	2.9 U	2.5 U
Bromomethane (Methyl bromide)	µg/kg	1.1 U	1.2 U	1.0 U
Carbon disulfide	µg/kg	1.3 U	1.4 U	1.2 U
Carbon tetrachloride	µg/kg	3.6 U	3.9 U	3.4 U
Chlorobenzene	µg/kg	1.0 U	1.1 U	0.96 U
Chloroethane	µg/kg	1.3 U	1.5 U	1.3 U
Chloroform (Trichloromethane)	µg/kg	0.87 U	0.94 U	0.83 U
Chloromethane (Methyl chloride)	µg/kg	1.1 U	1.2 U	1.1 U
cis-1,2-Dichloroethene	µg/kg	0.72 U	0.78 U	0.68 U
cis-1,3-Dichloropropene	µg/kg	1.6 U	1.7 U	1.5 U
Cyclohexane	µg/kg	1.5 U	1.6 U	1.4 U
Dibromochloromethane	µg/kg	3.1 U	3.3 U	2.9 U
Dichlorodifluoromethane (CFC-12)	µg/kg	1.0 U	1.1 U	0.99 U
Ethylbenzene	µg/kg	1.2 U	1.2 U	1.1 U
Isopropyl benzene	µg/kg	0.92 U	0.99 U	0.87 U
Methyl acetate	µg/kg	3.8 U	4.1 U	3.6 U
Methyl cyclohexane	µg/kg	1.4 U	1.5 U	1.3 U
Methyl tert butyl ether (MTBE)	µg/kg	0.90 U	0.98 U	0.86 U
Methylene chloride	µg/kg	13 U	14 U	13 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-205**	**SS-205**	**SS-206**
	Sample Name:	**SS-38443-121018-JC-222**	**SS-38443-121018-JC-205**	**SS-38443-121018-JC-223**
	Sample Date:	**12/10/2018**	**12/10/2018**	**12/10/2018**
	Depth:	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
Styrene	µg/kg	1.3 U	1.4 U	1.2 U
Tetrachloroethene	µg/kg	0.80 U	0.87 U	0.77 U
Toluene	µg/kg	0.85 U	0.92 U	0.81 U
trans-1,2-Dichloroethene	µg/kg	0.51 U	0.55 U	0.49 U
trans-1,3-Dichloropropene	µg/kg	1.1 U	1.2 U	1.1 U
Trichloroethene	µg/kg	0.70 U	0.76 U	0.66 U
Trichlorofluoromethane (CFC-11)	µg/kg	1.2 U	1.3 U	1.1 U
Trifluorotrichloroethane (CFC-113)	µg/kg	1.4 U	1.5 U	1.3 U
Vinyl chloride	µg/kg	0.92 U	1.0 U	0.88 U
Xylenes (total)	µg/kg	1.7 U	1.9 U	1.7 U
Semivolatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	13 U	14 U	12 U
2,4,5-Trichlorophenol	µg/kg	88 U	96 U	86 U
2,4,6-Trichlorophenol	µg/kg	82 U	89 U	80 U
2,4-Dichlorophenol	µg/kg	56 U	61 U	55 U
2,4-Dimethylphenol	µg/kg	51 U	56 U	50 U
2,4-Dinitrophenol	µg/kg	180 U	200 U	180 U
2,4-Dinitrotoluene	µg/kg	79 U	86 U	77 U
2,6-Dinitrotoluene	µg/kg	72 U	78 U	70 U
2-Chloronaphthalene	µg/kg	18 U	20 U	17 U
2-Chlorophenol	µg/kg	13 U	14 U	12 U
2-Methylnaphthalene	µg/kg	16 J	11 J	2.4 U
2-Methylphenol	µg/kg	40 U	43 U	39 U
2-Nitroaniline	µg/kg	51 U	56 U	50 U
2-Nitrophenol	µg/kg	17 U	18 U	16 U
3&4-Methylphenol	µg/kg	37 U	40 U	36 U
3,3'-Dichlorobenzidine	µg/kg	55 U	60 U	54 U
3-Nitroaniline	µg/kg	63 U	68 U	61 U
4,6-Dinitro-2-methylphenol	µg/kg	100 U	110 U	100 U
4-Bromophenyl phenyl ether	µg/kg	18 U	20 U	17 U
4-Chloro-3-methylphenol	µg/kg	58 U	63 U	56 U
4-Chloroaniline	µg/kg	38 U	42 U	37 U
4-Chlorophenyl phenyl ether	µg/kg	18 U	20 U	17 U
4-Nitroaniline	µg/kg	77 U	84 U	75 U
4-Nitrophenol	µg/kg	120 U	130 U	120 U
Acenaphthene	µg/kg	15 J	14 J	3.6 U
Acenaphthylene	µg/kg	28	26	6.2 J

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-205**	**SS-205**	**SS-206**
	Sample Name:	**SS-38443-121018-JC-222**	**SS-38443-121018-JC-205**	**SS-38443-121018-JC-223**
	Sample Date:	**12/10/2018**	**12/10/2018**	**12/10/2018**
	Depth:	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**
Parameters	**Unit**			
Semivolatile Organic Compounds				
Acetophenone	µg/kg	14 U	15 U	14 U
Anthracene	µg/kg	42	44	6.9 J
Atrazine	µg/kg	46 U	50 U	45 U
Benzaldehyde	µg/kg	29 U	85 J	29 U
Benzo(a)anthracene	µg/kg	290	330	53
Benzo(a)pyrene	µg/kg	320	390	67
Benzo(b)fluoranthene	µg/kg	510	620	110
Benzo(g,h,i)perylene	µg/kg	240	310	59
Benzo(k)fluoranthene	µg/kg	200	240	36
Biphenyl (1,1-Biphenyl)	µg/kg	22 U	24 U	21 U
bis(2-Chloroethoxy)methane	µg/kg	15 U	17 U	15 U
bis(2-Chloroethyl)ether	µg/kg	15 U	17 U	15 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	100	80 J	64 U
Butyl benzylphthalate (BBP)	µg/kg	38 J	31 U	27 U
Caprolactam	µg/kg	96 U	100 U	93 U
Carbazole	µg/kg	34 J	41 J	24 U
Chrysene	µg/kg	350	450	76
Di-n-butylphthalate (DBP)	µg/kg	30 J	31 U	27 U
Di-n-octyl phthalate (DnOP)	µg/kg	36 U	39 U	35 U
Dibenz(a,h)anthracene	µg/kg	66	82	20
Dibenzofuran	µg/kg	17 U	18 U	16 U
Diethyl phthalate	µg/kg	40 U	43 U	39 U
Dimethyl phthalate	µg/kg	18 U	20 U	17 U
Fluoranthene	µg/kg	540	770	150
Fluorene	µg/kg	15 J	15 J	3.4 U
Hexachlorobenzene	µg/kg	3.6 U	4.0 U	3.6 U
Hexachlorobutadiene	µg/kg	15 U	17 U	15 U
Hexachlorocyclopentadiene	µg/kg	79 U	86 U	77 U
Hexachloroethane	µg/kg	12 U	13 U	11 U
Indeno(1,2,3-cd)pyrene	µg/kg	220	280	54
Isophorone	µg/kg	15 U	17 U	15 U
N-Nitrosodi-n-propylamine	µg/kg	14 U	15 U	14 U
N-Nitrosodiphenylamine	µg/kg	15 U	17 U	15 U
Naphthalene	µg/kg	13 J	9.3 J	3.0 U
Nitrobenzene	µg/kg	17 U	18 U	16 U
Pentachlorophenol	µg/kg	74 UJ	81 UJ	72 UJ
Phenanthrene	µg/kg	230	260	53
Phenol	µg/kg	10 U	11 U	10 U
Pyrene	µg/kg	510	630	140

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-205**	**SS-205**	**SS-206**
	Sample Name:	**SS-38443-121018-JC-222**	**SS-38443-121018-JC-205**	**SS-38443-121018-JC-223**
	Sample Date:	**12/10/2018**	**12/10/2018**	**12/10/2018**
	Depth:	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**
Parameters	**Unit**			
Herbicides				
2,4,5-T	µg/kg	16 U	18 U	16 U
2,4,5-TP (Silvex)	µg/kg	17 U	19 U	17 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/kg	60 U	67 U	61 U
PCBs				
Aroclor-1016 (PCB-1016)	µg/kg	130 U	30 U	27 U
Aroclor-1221 (PCB-1221)	µg/kg	150 U	33 U	30 U
Aroclor-1232 (PCB-1232)	µg/kg	140 U	32 U	29 U
Aroclor-1242 (PCB-1242)	µg/kg	120 U	26 U	24 U
Aroclor-1248 (PCB-1248)	µg/kg	150 U	33 U	30 U
Aroclor-1254 (PCB-1254)	µg/kg	3300	160 J	29 U
Aroclor-1260 (PCB-1260)	µg/kg	130 U	30 U	27 U
Pesticides				
4,4'-DDD	µg/kg	19 U	10 U	1.9 U
4,4'-DDE	µg/kg	19 U	11 U	1.9 U
4,4'-DDT	µg/kg	14 U	7.9 U	1.4 U
Aldrin	µg/kg	9.7 U	5.4 U	0.96 U
alpha-BHC	µg/kg	11 U	6.4 U	1.1 U
alpha-Chlordane	µg/kg	19 U	10 U	1.9 U
beta-BHC	µg/kg	22 U	12 U	2.2 U
delta-BHC	µg/kg	21 U	12 U	2.1 U
Dieldrin	µg/kg	14 U	7.7 U	1.4 U
Endosulfan I	µg/kg	15 U	8.4 U	1.5 U
Endosulfan II	µg/kg	19 U	10 U	1.9 U
Endosulfan sulfate	µg/kg	16 U	9.0 U	1.6 U
Endrin	µg/kg	24 U	13 U	2.4 U
Endrin aldehyde	µg/kg	17 U	9.2 U	1.6 U
Endrin ketone	µg/kg	11 U	6.2 U	1.1 U
gamma-BHC (lindane)	µg/kg	23 U	13 U	2.2 U
gamma-Chlordane	µg/kg	16 U	8.6 U	1.5 U
Heptachlor	µg/kg	20 U	11 U	2.0 U
Heptachlor epoxide	µg/kg	18 U	10 U	1.8 U
Methoxychlor	µg/kg	83 U	46 U	8.2 U
Toxaphene	µg/kg	320 U	170 U	31 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-205**	**SS-205**	**SS-206**
	Sample Name:	**SS-38443-121018-JC-222**	**SS-38443-121018-JC-205**	**SS-38443-121018-JC-223**
	Sample Date:	**12/10/2018**	**12/10/2018**	**12/10/2018**
	Depth:	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**
Parameters	**Unit**			
Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs)				
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
Total heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
Total hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
Total pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
Total tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Metals				
Aluminum	mg/kg	11000	10000	13000
Antimony	mg/kg	0.31 J	0.27 J	0.22 J
Arsenic	mg/kg	9.8	8.3	9.7
Barium	mg/kg	140	130	140
Beryllium	mg/kg	0.62	0.54	0.77
Cadmium	mg/kg	1.5	0.66	0.35
Calcium	mg/kg	62000	69000	20000
Chromium	mg/kg	36	20	18
Chromium III (trivalent)	mg/kg	--	--	--
Chromium VI (hexavalent)	mg/kg	--	--	--
Cobalt	mg/kg	8.0	7.3	12

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-205**	**SS-205**	**SS-206**
	Sample Name:	**SS-38443-121018-JC-222**	**SS-38443-121018-JC-205**	**SS-38443-121018-JC-223**
	Sample Date:	**12/10/2018**	**12/10/2018**	**12/10/2018**
	Depth:	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**
Parameters	**Unit**			
Metals				
Copper	mg/kg	41	27	17
Iron	mg/kg	21000	19000	23000
Lead	mg/kg	64	31	26
Lead - coarse fraction	mg/kg	--	--	--
Lead - fine fraction	mg/kg	--	--	--
Lead - total (calculated by fine/coarse fraction)	mg/kg	--	--	--
Magnesium	mg/kg	23000	25000	8900
Manganese	mg/kg	560	580	1000
Mercury	mg/kg	0.16	0.11 J	0.041 J
Nickel	mg/kg	27	21	19
Potassium	mg/kg	1500	1600	1300
Selenium	mg/kg	0.74 J	0.73 J	0.50 J
Silver	mg/kg	0.86	0.29	0.063 J
Sodium	mg/kg	100 J	100 J	59 U
Thallium	mg/kg	0.37	0.32	0.20 J
Vanadium	mg/kg	26	24	30
Zinc	mg/kg	140	110	67
General Chemistry				
Cyanide (total)	mg/kg	0.26 J	0.29 U	0.26 U
Soot carbon	mg/kg	--	--	--
Total organic carbon (TOC)	mg/kg	--	--	--

Notes:

R - Rejected
J - Estimated concentration
U - Not detected at the associated reporting limit
-- - Not applicable
UJ - Not detected; associated reporting limit is detected
PCBs - Polychlorinated Biphenyls

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-206**	**SS-207**	**SS-207**
	Sample Name:	**SS-38443-121018-JC-206**	**SS-38443-121018-JC-224**	**SS-38443-121018-JC-207**
	Sample Date:	**12/10/2018**	**12/10/2018**	**12/10/2018**
	Depth:	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/kg	0.85 U	0.87 U	0.90 U
1,1,2,2-Tetrachloroethane	µg/kg	1.5 U	1.5 U	1.6 U
1,1,2-Trichloroethane	µg/kg	1.2 U	1.2 U	1.2 U
1,1-Dichloroethane	µg/kg	0.72 U	0.74 U	0.76 U
1,1-Dichloroethene	µg/kg	0.94 U	0.96 U	0.99 U
1,2,4-Trichlorobenzene	µg/kg	0.59 U	0.61 U	0.62 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	3.7 U	3.8 U	3.9 U
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	0.80 U	0.82 U	0.84 U
1,2-Dichlorobenzene	µg/kg	1.2 U	1.2 U	1.2 U
1,2-Dichloroethane	µg/kg	0.80 U	0.82 U	0.84 U
1,2-Dichloropropane	µg/kg	0.88 U	0.90 U	0.93 U
1,3-Dichlorobenzene	µg/kg	0.85 U	0.87 U	0.89 U
1,4-Dichlorobenzene	µg/kg	0.92 U	0.94 U	0.96 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	3.7 U	3.8 U	3.9 U
2-Hexanone	µg/kg	4.2 U	4.3 U	4.5 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	3.9 U	3.9 U	4.1 U
Acetone	µg/kg	22 U	22 U	23 U
Benzene	µg/kg	0.73 U	0.74 U	0.76 U
Bromodichloromethane	µg/kg	0.71 U	0.72 U	0.74 U
Bromoform	µg/kg	2.5 U	2.6 U	2.6 U
Bromomethane (Methyl bromide)	µg/kg	1.0 U	1.1 U	1.1 U
Carbon disulfide	µg/kg	1.2 U	1.2 U	1.3 U
Carbon tetrachloride	µg/kg	3.4 U	3.5 U	3.6 U
Chlorobenzene	µg/kg	0.95 U	0.97 U	1.0 U
Chloroethane	µg/kg	1.3 U	1.3 U	1.3 U
Chloroform (Trichloromethane)	µg/kg	0.82 U	0.84 U	0.86 U
Chloromethane (Methyl chloride)	µg/kg	1.1 U	1.1 U	1.1 U
cis-1,2-Dichloroethene	µg/kg	0.68 U	0.69 U	0.71 U
cis-1,3-Dichloropropene	µg/kg	1.5 U	1.5 U	1.6 U
Cyclohexane	µg/kg	1.4 U	1.5 U	1.5 U
Dibromochloromethane	µg/kg	2.9 U	3.0 U	3.0 U
Dichlorodifluoromethane (CFC-12)	µg/kg	0.98 U	1.0 U	1.0 U
Ethylbenzene	µg/kg	1.1 U	1.1 U	1.1 U
Isopropyl benzene	µg/kg	0.87 U	0.88 U	0.91 U
Methyl acetate	µg/kg	3.5 U	3.6 U	3.7 U
Methyl cyclohexane	µg/kg	1.3 U	1.3 U	1.3 U
Methyl tert butyl ether (MTBE)	µg/kg	0.85 U	0.87 U	0.90 U
Methylene chloride	µg/kg	12 U	13 U	13 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-206**	**SS-207**	**SS-207**
	Sample Name:	**SS-38443-121018-JC-206**	**SS-38443-121018-JC-224**	**SS-38443-121018-JC-207**
	Sample Date:	**12/10/2018**	**12/10/2018**	**12/10/2018**
	Depth:	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
Styrene	µg/kg	1.2 U	1.2 U	1.3 U
Tetrachloroethene	µg/kg	0.76 U	0.78 U	0.80 U
Toluene	µg/kg	0.80 U	0.82 U	0.84 U
trans-1,2-Dichloroethene	µg/kg	0.48 U	0.49 U	0.51 U
trans-1,3-Dichloropropene	µg/kg	1.1 U	1.1 U	1.1 U
Trichloroethene	µg/kg	0.66 U	0.67 U	0.69 U
Trichlorofluoromethane (CFC-11)	µg/kg	1.1 U	1.1 U	1.2 U
Trifluorotrichloroethane (CFC-113)	µg/kg	1.3 U	1.4 U	1.4 U
Vinyl chloride	µg/kg	0.87 U	0.89 U	0.91 U
Xylenes (total)	µg/kg	1.6 U	1.7 U	1.7 U
Semivolatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	13 U	13 U	13 U
2,4,5-Trichlorophenol	µg/kg	87 U	87 U	91 U
2,4,6-Trichlorophenol	µg/kg	80 U	81 U	85 U
2,4-Dichlorophenol	µg/kg	55 U	56 U	58 U
2,4-Dimethylphenol	µg/kg	50 U	50 U	53 U
2,4-Dinitrophenol	µg/kg	180 U	180 U	190 U
2,4-Dinitrotoluene	µg/kg	78 U	78 U	82 U
2,6-Dinitrotoluene	µg/kg	70 U	71 U	74 U
2-Chloronaphthalene	µg/kg	18 U	18 U	19 U
2-Chlorophenol	µg/kg	13 U	13 U	13 U
2-Methylnaphthalene	µg/kg	4.3 J	22	10 J
2-Methylphenol	µg/kg	39 U	39 U	41 U
2-Nitroaniline	µg/kg	50 U	50 U	53 U
2-Nitrophenol	µg/kg	16 U	16 U	17 U
3&4-Methylphenol	µg/kg	36 U	37 U	38 U
3,3'-Dichlorobenzidine	µg/kg	54 U	54 U	57 U
3-Nitroaniline	µg/kg	61 U	62 U	65 U
4,6-Dinitro-2-methylphenol	µg/kg	100 U	100 U	110 U
4-Bromophenyl phenyl ether	µg/kg	18 U	18 U	19 U
4-Chloro-3-methylphenol	µg/kg	56 U	57 U	60 U
4-Chloroaniline	µg/kg	38 U	38 U	40 U
4-Chlorophenyl phenyl ether	µg/kg	18 U	18 U	19 U
4-Nitroaniline	µg/kg	75 U	76 U	80 U
4-Nitrophenol	µg/kg	120 U	120 U	120 U
Acenaphthene	µg/kg	3.6 U	18 J	15 J
Acenaphthylene	µg/kg	6.8 J	63	32

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-206**	**SS-207**	**SS-207**
	Sample Name:	**SS-38443-121018-JC-206**	**SS-38443-121018-JC-224**	**SS-38443-121018-JC-207**
	Sample Date:	**12/10/2018**	**12/10/2018**	**12/10/2018**
	Depth:	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**
Parameters	**Unit**			
Semivolatile Organic Compounds				
Acetophenone	µg/kg	14 U	14 U	15 U
Anthracene	µg/kg	7.7 J	68	49
Atrazine	µg/kg	45 U	45 U	48 U
Benzaldehyde	µg/kg	29 U	29 U	46 J
Benzo(a)anthracene	µg/kg	52	470	370
Benzo(a)pyrene	µg/kg	63	510	440
Benzo(b)fluoranthene	µg/kg	110	840	740
Benzo(g,h,i)perylene	µg/kg	54	380	360
Benzo(k)fluoranthene	µg/kg	30	290	260
Biphenyl (1,1-Biphenyl)	µg/kg	21 U	21 U	23 U
bis(2-Chloroethoxy)methane	µg/kg	15 U	15 U	16 U
bis(2-Chloroethyl)ether	µg/kg	15 U	15 U	16 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	88	120	76 J
Butyl benzylphthalate (BBP)	µg/kg	28 U	28 U	29 U
Caprolactam	µg/kg	94 U	95 U	99 U
Carbazole	µg/kg	24 U	42 J	42 J
Chrysene	µg/kg	71	560	520
Di-n-butylphthalate (DBP)	µg/kg	28 J	29 J	30 J
Di-n-octyl phthalate (DnOP)	µg/kg	35 U	35 U	37 U
Dibenz(a,h)anthracene	µg/kg	20	110	95
Dibenzofuran	µg/kg	16 U	16 U	17 U
Diethyl phthalate	µg/kg	39 U	39 U	41 U
Dimethyl phthalate	µg/kg	18 U	18 U	19 U
Fluoranthene	µg/kg	120	810	890
Fluorene	µg/kg	3.4 U	18 J	16 J
Hexachlorobenzene	µg/kg	3.6 U	3.6 U	3.8 U
Hexachlorobutadiene	µg/kg	15 U	15 U	16 U
Hexachlorocyclopentadiene	µg/kg	78 U	78 U	R
Hexachloroethane	µg/kg	11 U	11 U	12 U
Indeno(1,2,3-cd)pyrene	µg/kg	48	350	350
Isophorone	µg/kg	15 U	15 U	16 U
N-Nitrosodi-n-propylamine	µg/kg	14 U	14 U	15 U
N-Nitrosodiphenylamine	µg/kg	15 U	15 U	16 U
Naphthalene	µg/kg	3.0 U	18 J	12 J
Nitrobenzene	µg/kg	16 U	16 U	17 U
Pentachlorophenol	µg/kg	73 UJ	73 UJ	R
Phenanthrene	µg/kg	43	260	280
Phenol	µg/kg	10 U	10 U	11 U
Pyrene	µg/kg	98	780	730

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-206**	**SS-207**	**SS-207**
	Sample Name:	**SS-38443-121018-JC-206**	**SS-38443-121018-JC-224**	**SS-38443-121018-JC-207**
	Sample Date:	**12/10/2018**	**12/10/2018**	**12/10/2018**
	Depth:	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**
Parameters	**Unit**			
Herbicides				
2,4,5-T	µg/kg	16 U	16 U	17 U
2,4,5-TP (Silvex)	µg/kg	17 U	18 U	18 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/kg	61 U	62 U	64 U
PCBs				
Aroclor-1016 (PCB-1016)	µg/kg	27 U	27 U	29 U
Aroclor-1221 (PCB-1221)	µg/kg	29 U	30 U	32 U
Aroclor-1232 (PCB-1232)	µg/kg	28 U	28 U	30 U
Aroclor-1242 (PCB-1242)	µg/kg	23 U	23 U	25 U
Aroclor-1248 (PCB-1248)	µg/kg	29 U	30 U	32 U
Aroclor-1254 (PCB-1254)	µg/kg	28 U	1500	110
Aroclor-1260 (PCB-1260)	µg/kg	27 U	27 U	29 U
Pesticides				
4,4'-DDD	µg/kg	1.8 U	9.2 U	9.8 U
4,4'-DDE	µg/kg	1.9 U	9.4 U	10 U
4,4'-DDT	µg/kg	1.4 U	7.1 U	7.5 U
Aldrin	µg/kg	0.95 U	4.8 U	5.1 U
alpha-BHC	µg/kg	1.1 U	5.7 U	6.0 U
alpha-Chlordane	µg/kg	1.9 U	9.4 U	9.9 U
beta-BHC	µg/kg	2.1 U	11 U	11 U
delta-BHC	µg/kg	2.1 U	11 U	11 U
Dieldrin	µg/kg	1.4 U	6.9 U	7.3 U
Endosulfan I	µg/kg	1.5 U	7.5 U	7.9 U
Endosulfan II	µg/kg	1.8 U	9.2 U	9.8 U
Endosulfan sulfate	µg/kg	1.6 U	8.0 U	8.4 U
Endrin	µg/kg	2.4 U	12 U	13 U
Endrin aldehyde	µg/kg	1.6 U	8.2 U	8.6 U
Endrin ketone	µg/kg	1.1 U	5.6 U	5.9 U
gamma-BHC (lindane)	µg/kg	2.2 U	11 U	12 U
gamma-Chlordane	µg/kg	1.5 U	7.7 U	8.1 U
Heptachlor	µg/kg	2.0 U	9.9 U	10 U
Heptachlor epoxide	µg/kg	1.8 U	9.0 U	9.5 U
Methoxychlor	µg/kg	8.1 U	41 U	43 U
Toxaphene	µg/kg	31 U	160 U	160 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-206**	**SS-207**	**SS-207**
	Sample Name:	**SS-38443-121018-JC-206**	**SS-38443-121018-JC-224**	**SS-38443-121018-JC-207**
	Sample Date:	**12/10/2018**	**12/10/2018**	**12/10/2018**
	Depth:	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**
Parameters	**Unit**			
Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs)				
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
Total heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
Total hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
Total pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
Total tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Metals				
Aluminum	mg/kg	11000	11000	9000
Antimony	mg/kg	0.19 J	0.29 J	0.31 J
Arsenic	mg/kg	7.6	9.9	8.1
Barium	mg/kg	150	150	130
Beryllium	mg/kg	0.65	0.64	0.51
Cadmium	mg/kg	0.33	1.9	0.63
Calcium	mg/kg	31000	61000	69000
Chromium	mg/kg	15	44	19
Chromium III (trivalent)	mg/kg	--	--	--
Chromium VI (hexavalent)	mg/kg	--	--	--
Cobalt	mg/kg	13	8.1	7.0

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-206**	**SS-207**	**SS-207**
	Sample Name:	**SS-38443-121018-JC-206**	**SS-38443-121018-JC-224**	**SS-38443-121018-JC-207**
	Sample Date:	**12/10/2018**	**12/10/2018**	**12/10/2018**
	Depth:	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**
Parameters	**Unit**			
Metals				
Copper	mg/kg	15	50	26
Iron	mg/kg	19000	20000	18000
Lead	mg/kg	27	75	30
Lead - coarse fraction	mg/kg	--	--	--
Lead - fine fraction	mg/kg	--	--	--
Lead - total (calculated by fine/coarse fraction)	mg/kg	--	--	--
Magnesium	mg/kg	12000	22000	24000
Manganese	mg/kg	1000	570	550
Mercury	mg/kg	0.043 J	0.26	0.078 J
Nickel	mg/kg	17	29	20
Potassium	mg/kg	1200	1400	1400
Selenium	mg/kg	0.55 J	0.72 J	0.70 J
Silver	mg/kg	0.060 J	1.0	0.29
Sodium	mg/kg	61 J	95 J	98 J
Thallium	mg/kg	0.19 J	0.36	0.29
Vanadium	mg/kg	25	25	21
Zinc	mg/kg	60	150	100
General Chemistry				
Cyanide (total)	mg/kg	0.23 U	0.22 U	0.27 U
Soot carbon	mg/kg	--	--	--
Total organic carbon (TOC)	mg/kg	--	--	--

Notes:

R - Rejected
J - Estimated concentration
U - Not detected at the associated reporting limit
-- - Not applicable
UJ - Not detected; associated reporting limit is detected
PCBs - Polychlorinated Biphenyls

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-208**	**SS-208**	**SS-208**
	Sample Name:	**SS-38443-121018-JC-225**	**SS-38443-121018-JC-199**	**SS-38443-121018-JC-208**
	Sample Date:	**12/10/2018**	**12/10/2018**	**12/10/2018**
	Depth:	**0.5-2 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**
			Duplicate	
Parameters	**Unit**			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/kg	0.87 U	0.88 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/kg	1.5 U	1.5 U	R
1,1,2-Trichloroethane	µg/kg	1.2 U	1.2 U	1.4 U
1,1-Dichloroethane	µg/kg	0.74 U	0.75 U	0.86 U
1,1-Dichloroethene	µg/kg	0.96 U	0.97 U	1.1 U
1,2,4-Trichlorobenzene	µg/kg	0.61 U	0.62 U	R
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	3.8 U	3.9 U	R
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	0.82 U	0.83 U	0.96 U
1,2-Dichlorobenzene	µg/kg	1.2 U	1.2 U	R
1,2-Dichloroethane	µg/kg	0.82 U	0.83 U	0.96 U
1,2-Dichloropropane	µg/kg	0.91 U	0.92 U	1.1 U
1,3-Dichlorobenzene	µg/kg	0.87 U	0.88 U	R
1,4-Dichlorobenzene	µg/kg	0.94 U	0.95 U	R
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	3.8 U	3.8 U	4.4 U
2-Hexanone	µg/kg	4.4 U	4.4 U	5.1 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	4.0 U	4.0 U	4.6 U
Acetone	µg/kg	22 U	23 U	26 U
Benzene	µg/kg	0.74 U	0.75 U	0.87 U
Bromodichloromethane	µg/kg	0.72 U	0.73 U	0.84 U
Bromoform	µg/kg	2.6 U	2.6 U	3.0 U
Bromomethane (Methyl bromide)	µg/kg	1.1 U	1.1 U	1.2 U
Carbon disulfide	µg/kg	1.2 U	1.3 U	1.4 U
Carbon tetrachloride	µg/kg	3.5 U	3.5 U	4.0 U
Chlorobenzene	µg/kg	0.98 U	0.99 U	1.1 U
Chloroethane	µg/kg	1.3 U	1.3 U	1.5 U
Chloroform (Trichloromethane)	µg/kg	0.84 U	0.85 U	0.98 U
Chloromethane (Methyl chloride)	µg/kg	1.1 U	1.1 U	1.3 U
cis-1,2-Dichloroethene	µg/kg	0.69 U	0.70 U	0.81 U
cis-1,3-Dichloropropene	µg/kg	1.5 U	1.5 U	1.8 U
Cyclohexane	µg/kg	1.5 U	1.5 U	1.7 U
Dibromochloromethane	µg/kg	3.0 U	3.0 U	3.5 U
Dichlorodifluoromethane (CFC-12)	µg/kg	1.0 U	1.0 U	1.2 U
Ethylbenzene	µg/kg	1.1 U	1.1 U	1.3 U
Isopropyl benzene	µg/kg	0.89 U	0.90 U	1.0 U
Methyl acetate	µg/kg	3.6 U	3.7 U	4.2 U
Methyl cyclohexane	µg/kg	1.3 U	1.3 U	1.5 U
Methyl tert butyl ether (MTBE)	µg/kg	0.87 U	0.88 U	1.0 U
Methylene chloride	µg/kg	13 U	13 U	15 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-208**	**SS-208**	**SS-208**
	Sample Name:	**SS-38443-121018-JC-225**	**SS-38443-121018-JC-199**	**SS-38443-121018-JC-208**
	Sample Date:	**12/10/2018**	**12/10/2018**	**12/10/2018**
	Depth:	**0.5-2 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**
			Duplicate	
Parameters	**Unit**			
Volatile Organic Compounds				
Styrene	µg/kg	1.2 U	1.2 U	1.4 U
Tetrachloroethene	µg/kg	0.78 U	0.79 U	0.91 U
Toluene	µg/kg	0.82 U	0.83 U	0.96 U
trans-1,2-Dichloroethene	µg/kg	0.50 U	0.50 U	0.58 U
trans-1,3-Dichloropropene	µg/kg	1.1 U	1.1 U	1.3 U
Trichloroethene	µg/kg	0.67 U	0.68 U	0.79 U
Trichlorofluoromethane (CFC-11)	µg/kg	1.1 U	1.2 U	1.3 U
Trifluorotrichloroethane (CFC-113)	µg/kg	1.4 U	1.4 U	1.6 U
Vinyl chloride	µg/kg	0.89 U	0.90 U	1.0 U
Xylenes (total)	µg/kg	1.7 U	1.7 U	2.0 U
Semivolatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	13 U	13 U	13 U
2,4,5-Trichlorophenol	µg/kg	90 U	89 U	93 U
2,4,6-Trichlorophenol	µg/kg	83 U	83 U	86 U
2,4-Dichlorophenol	µg/kg	57 U	57 U	59 U
2,4-Dimethylphenol	µg/kg	52 U	52 U	54 U
2,4-Dinitrophenol	µg/kg	180 U	180 U	190 U
2,4-Dinitrotoluene	µg/kg	81 U	80 U	83 U
2,6-Dinitrotoluene	µg/kg	73 U	72 U	75 U
2-Chloronaphthalene	µg/kg	18 U	18 U	19 U
2-Chlorophenol	µg/kg	13 U	13 U	13 U
2-Methylnaphthalene	µg/kg	25	11 J	13 J
2-Methylphenol	µg/kg	40 U	40 U	42 U
2-Nitroaniline	µg/kg	52 U	52 U	54 U
2-Nitrophenol	µg/kg	17 U	17 U	17 U
3&4-Methylphenol	µg/kg	38 U	37 U	39 U
3,3'-Dichlorobenzidine	µg/kg	56 U	55 U	58 U
3-Nitroaniline	µg/kg	64 U	63 U	66 U
4,6-Dinitro-2-methylphenol	µg/kg	100 U	100 U	110 U
4-Bromophenyl phenyl ether	µg/kg	18 U	18 U	19 U
4-Chloro-3-methylphenol	µg/kg	59 U	58 U	60 U
4-Chloroaniline	µg/kg	39 U	39 U	40 U
4-Chlorophenyl phenyl ether	µg/kg	18 U	18 U	19 U
4-Nitroaniline	µg/kg	78 U	77 U	81 U
4-Nitrophenol	µg/kg	120 U	120 U	130 U
Acenaphthene	µg/kg	3.7 U	3.7 U	14 J
Acenaphthylene	µg/kg	47	37	23

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

Location ID:		**SS-208**	**SS-208**	**SS-208**
Sample Name:		**SS-38443-121018-JC-225**	**SS-38443-121018-JC-199**	**SS-38443-121018-JC-208**
Sample Date:		**12/10/2018**	**12/10/2018**	**12/10/2018**
Depth:		**0.5-2 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**
			Duplicate	
Parameters	**Unit**			
Semivolatile Organic Compounds				
Acetophenone	µg/kg	14 U	14 U	15 U
Anthracene	µg/kg	52	40	44
Atrazine	µg/kg	47 U	46 U	48 U
Benzaldehyde	µg/kg	30 U	30 U	31 U
Benzo(a)anthracene	µg/kg	430	290	300
Benzo(a)pyrene	µg/kg	460	290	320
Benzo(b)fluoranthene	µg/kg	810	510	590
Benzo(g,h,i)perylene	µg/kg	390	270	300
Benzo(k)fluoranthene	µg/kg	260	190	190
Biphenyl (1,1-Biphenyl)	µg/kg	22 U	22 U	23 U
bis(2-Chloroethoxy)methane	µg/kg	16 U	15 U	16 U
bis(2-Chloroethyl)ether	µg/kg	16 U	15 U	16 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	130	98	68 U
Butyl benzylphthalate (BBP)	µg/kg	29 U	28 U	30 U
Caprolactam	µg/kg	98 U	97 U	100 U
Carbazole	µg/kg	48 J	33 J	33 J
Chrysene	µg/kg	490	370	410
Di-n-butylphthalate (DBP)	µg/kg	29 U	28 U	30 U
Di-n-octyl phthalate (DnOP)	µg/kg	36 U	36 U	38 U
Dibenz(a,h)anthracene	µg/kg	110	64	70
Dibenzofuran	µg/kg	21 J	17 U	17 U
Diethyl phthalate	µg/kg	40 U	40 U	42 U
Dimethyl phthalate	µg/kg	18 U	18 U	19 U
Fluoranthene	µg/kg	690	560	640
Fluorene	µg/kg	21	16 J	3.7 U
Hexachlorobenzene	µg/kg	3.7 UJ	3.7 UJ	3.8 UJ
Hexachlorobutadiene	µg/kg	16 U	15 U	16 U
Hexachlorocyclopentadiene	µg/kg	81 UJ	80 UJ	R
Hexachloroethane	µg/kg	12 U	12 U	12 U
Indeno(1,2,3-cd)pyrene	µg/kg	340	220	210
Isophorone	µg/kg	16 U	15 U	16 U
N-Nitrosodi-n-propylamine	µg/kg	14 U	14 U	15 U
N-Nitrosodiphenylamine	µg/kg	16 U	15 U	16 U
Naphthalene	µg/kg	21	10 J	8.9 J
Nitrobenzene	µg/kg	17 U	17 U	17 U
Pentachlorophenol	µg/kg	76 U	75 U	78 U
Phenanthrene	µg/kg	340	230	230
Phenol	µg/kg	10 U	10 U	11 U
Pyrene	µg/kg	730	570	620

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-208**	**SS-208**	**SS-208**
	Sample Name:	**SS-38443-121018-JC-225**	**SS-38443-121018-JC-199**	**SS-38443-121018-JC-208**
	Sample Date:	**12/10/2018**	**12/10/2018**	**12/10/2018**
	Depth:	**0.5-2 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**
			Duplicate	
Parameters	**Unit**			
Herbicides				
2,4,5-T	µg/kg	17 U	17 U	17 U
2,4,5-TP (Silvex)	µg/kg	18 U	18 U	19 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/kg	63 U	62 U	65 U
PCBs				
Aroclor-1016 (PCB-1016)	µg/kg	28 U	28 U	29 U
Aroclor-1221 (PCB-1221)	µg/kg	30 U	31 U	32 U
Aroclor-1232 (PCB-1232)	µg/kg	29 U	29 U	31 U
Aroclor-1242 (PCB-1242)	µg/kg	24 U	24 U	25 U
Aroclor-1248 (PCB-1248)	µg/kg	30 U	31 U	32 U
Aroclor-1254 (PCB-1254)	µg/kg	1500 J	460 J	140 J
Aroclor-1260 (PCB-1260)	µg/kg	28 U	28 U	29 U
Pesticides				
4,4'-DDD	µg/kg	9.7 U	19 U	10 U
4,4'-DDE	µg/kg	9.9 U	19 U	10 U
4,4'-DDT	µg/kg	7.4 U	14 U	7.7 U
Aldrin	µg/kg	5.0 U	9.8 U	5.3 U
alpha-BHC	µg/kg	6.0 U	12 U	6.2 U
alpha-Chlordane	µg/kg	9.8 U	19 U	10 U
beta-BHC	µg/kg	11 U	22 U	12 U
delta-BHC	µg/kg	11 U	22 U	12 U
Dieldrin	µg/kg	7.2 U	14 U	7.5 U
Endosulfan I	µg/kg	7.9 U	15 U	8.2 U
Endosulfan II	µg/kg	9.7 U	19 U	10 U
Endosulfan sulfate	µg/kg	8.4 U	16 U	8.8 U
Endrin	µg/kg	12 U	24 U	13 U
Endrin aldehyde	µg/kg	8.6 U	17 U	9.0 U
Endrin ketone	µg/kg	5.8 U	11 U	6.1 U
gamma-BHC (lindane)	µg/kg	12 U	23 U	12 U
gamma-Chlordane	µg/kg	8.0 U	16 U	8.4 U
Heptachlor	µg/kg	10 U	20 U	11 U
Heptachlor epoxide	µg/kg	9.4 U	18 U	9.8 U
Methoxychlor	µg/kg	43 U	84 U	45 U
Toxaphene	µg/kg	160 U	320 U	170 U

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-208**	**SS-208**	**SS-208**
	Sample Name:	**SS-38443-121018-JC-225**	**SS-38443-121018-JC-199**	**SS-38443-121018-JC-208**
	Sample Date:	**12/10/2018**	**12/10/2018**	**12/10/2018**
	Depth:	**0.5-2 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**
			Duplicate	
Parameters	**Unit**			
Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs)				
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
Total heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
Total hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
Total pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
Total tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Metals				
Aluminum	mg/kg	12000	12000	9200
Antimony	mg/kg	0.35 J	0.31 J	0.27 J
Arsenic	mg/kg	10	9.9	8.3
Barium	mg/kg	150	140	130
Beryllium	mg/kg	0.77	0.68	0.59
Cadmium	mg/kg	2.0	1.2	0.69
Calcium	mg/kg	58000	58000	68000
Chromium	mg/kg	45	31	20
Chromium III (trivalent)	mg/kg	--	--	--
Chromium VI (hexavalent)	mg/kg	--	--	--
Cobalt	mg/kg	8.3	8.4	7.1

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-208**	**SS-208**	**SS-208**
	Sample Name:	**SS-38443-121018-JC-225**	**SS-38443-121018-JC-199**	**SS-38443-121018-JC-208**
	Sample Date:	**12/10/2018**	**12/10/2018**	**12/10/2018**
	Depth:	**0.5-2 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**
			Duplicate	
Parameters	**Unit**			
Metals				
Copper	mg/kg	54	39	27
Iron	mg/kg	21000	21000	18000
Lead	mg/kg	77	52	32
Lead - coarse fraction	mg/kg	--	--	--
Lead - fine fraction	mg/kg	--	--	--
Lead - total (calculated by fine/coarse fraction)	mg/kg	--	--	--
Magnesium	mg/kg	22000	22000	24000
Manganese	mg/kg	560	620	560
Mercury	mg/kg	0.19	0.15	0.11 J
Nickel	mg/kg	30	27	20
Potassium	mg/kg	1600	1600	1500
Selenium	mg/kg	0.83 J	0.78 J	0.76 J
Silver	mg/kg	1.2	0.71	0.33
Sodium	mg/kg	95 J	91 J	98 J
Thallium	mg/kg	0.40	0.38	0.31
Vanadium	mg/kg	27	26	22
Zinc	mg/kg	150	130	100
General Chemistry				
Cyanide (total)	mg/kg	0.26 U	0.25 U	0.27 J
Soot carbon	mg/kg	--	--	--
Total organic carbon (TOC)	mg/kg	--	--	--

Notes:

R - Rejected
J - Estimated concentration
U - Not detected at the associated reporting limit
-- - Not applicable
UJ - Not detected; associated reporting limit is detected
PCBs - Polychlorinated Biphenyls

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-209**	**SS-210**	**SS-211**
	Sample Name:	**SS-38443-120718-JC-209**	**SS-38443-120718-JC-210**	**SS-38443-120718-JC-211**
	Sample Date:	**12/07/2018**	**12/07/2018**	**12/07/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/kg	--	--	--
1,1,2,2-Tetrachloroethane	µg/kg	--	--	--
1,1,2-Trichloroethane	µg/kg	--	--	--
1,1-Dichloroethane	µg/kg	--	--	--
1,1-Dichloroethene	µg/kg	--	--	--
1,2,4-Trichlorobenzene	µg/kg	--	--	--
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	--	--	--
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	--	--	--
1,2-Dichlorobenzene	µg/kg	--	--	--
1,2-Dichloroethane	µg/kg	--	--	--
1,2-Dichloropropane	µg/kg	--	--	--
1,3-Dichlorobenzene	µg/kg	--	--	--
1,4-Dichlorobenzene	µg/kg	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	--	--	--
2-Hexanone	µg/kg	--	--	--
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	--	--	--
Acetone	µg/kg	--	--	--
Benzene	µg/kg	--	--	--
Bromodichloromethane	µg/kg	--	--	--
Bromoform	µg/kg	--	--	--
Bromomethane (Methyl bromide)	µg/kg	--	--	--
Carbon disulfide	µg/kg	--	--	--
Carbon tetrachloride	µg/kg	--	--	--
Chlorobenzene	µg/kg	--	--	--
Chloroethane	µg/kg	--	--	--
Chloroform (Trichloromethane)	µg/kg	--	--	--
Chloromethane (Methyl chloride)	µg/kg	--	--	--
cis-1,2-Dichloroethene	µg/kg	--	--	--
cis-1,3-Dichloropropene	µg/kg	--	--	--
Cyclohexane	µg/kg	--	--	--
Dibromochloromethane	µg/kg	--	--	--
Dichlorodifluoromethane (CFC-12)	µg/kg	--	--	--
Ethylbenzene	µg/kg	--	--	--
Isopropyl benzene	µg/kg	--	--	--
Methyl acetate	µg/kg	--	--	--
Methyl cyclohexane	µg/kg	--	--	--
Methyl tert butyl ether (MTBE)	µg/kg	--	--	--
Methylene chloride	µg/kg	--	--	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-209**	**SS-210**	**SS-211**
	Sample Name:	**SS-38443-120718-JC-209**	**SS-38443-120718-JC-210**	**SS-38443-120718-JC-211**
	Sample Date:	**12/07/2018**	**12/07/2018**	**12/07/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
Styrene	µg/kg	--	--	--
Tetrachloroethene	µg/kg	--	--	--
Toluene	µg/kg	--	--	--
trans-1,2-Dichloroethene	µg/kg	--	--	--
trans-1,3-Dichloropropene	µg/kg	--	--	--
Trichloroethene	µg/kg	--	--	--
Trichlorofluoromethane (CFC-11)	µg/kg	--	--	--
Trifluorotrichloroethane (CFC-113)	µg/kg	--	--	--
Vinyl chloride	µg/kg	--	--	--
Xylenes (total)	µg/kg	--	--	--
Semivolatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	--	--	--
2,4,5-Trichlorophenol	µg/kg	--	--	--
2,4,6-Trichlorophenol	µg/kg	--	--	--
2,4-Dichlorophenol	µg/kg	--	--	--
2,4-Dimethylphenol	µg/kg	--	--	--
2,4-Dinitrophenol	µg/kg	--	--	--
2,4-Dinitrotoluene	µg/kg	--	--	--
2,6-Dinitrotoluene	µg/kg	--	--	--
2-Chloronaphthalene	µg/kg	17 U	17 U	17 U
2-Chlorophenol	µg/kg	--	--	--
2-Methylnaphthalene	µg/kg	120	15 J	34 J
2-Methylphenol	µg/kg	--	--	--
2-Nitroaniline	µg/kg	--	--	--
2-Nitrophenol	µg/kg	--	--	--
3&4-Methylphenol	µg/kg	--	--	--
3,3'-Dichlorobenzidine	µg/kg	--	--	--
3-Nitroaniline	µg/kg	--	--	--
4,6-Dinitro-2-methylphenol	µg/kg	--	--	--
4-Bromophenyl phenyl ether	µg/kg	--	--	--
4-Chloro-3-methylphenol	µg/kg	--	--	--
4-Chloroaniline	µg/kg	--	--	--
4-Chlorophenyl phenyl ether	µg/kg	--	--	--
4-Nitroaniline	µg/kg	--	--	--
4-Nitrophenol	µg/kg	--	--	--
Acenaphthene	µg/kg	27	3.4 U	3.4 U
Acenaphthylene	µg/kg	--	--	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-209**	**SS-210**	**SS-211**
	Sample Name:	**SS-38443-120718-JC-209**	**SS-38443-120718-JC-210**	**SS-38443-120718-JC-211**
	Sample Date:	**12/07/2018**	**12/07/2018**	**12/07/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Semivolatile Organic Compounds				
Acetophenone	µg/kg	--	--	--
Anthracene	µg/kg	60	2.9 U	2.9 U
Atrazine	µg/kg	--	--	--
Benzaldehyde	µg/kg	--	--	--
Benzo(a)anthracene	µg/kg	150	16 J	19
Benzo(a)pyrene	µg/kg	130	20	24
Benzo(b)fluoranthene	µg/kg	200	29	36
Benzo(g,h,i)perylene	µg/kg	--	--	--
Benzo(k)fluoranthene	µg/kg	100	14 J	17 J
Biphenyl (1,1-Biphenyl)	µg/kg	--	--	--
bis(2-Chloroethoxy)methane	µg/kg	--	--	--
bis(2-Chloroethyl)ether	µg/kg	--	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	--	--	--
Butyl benzylphthalate (BBP)	µg/kg	--	--	--
Caprolactam	µg/kg	--	--	--
Carbazole	µg/kg	--	--	--
Chrysene	µg/kg	170	23	32
Di-n-butylphthalate (DBP)	µg/kg	--	--	--
Di-n-octyl phthalate (DnOP)	µg/kg	--	--	--
Dibenz(a,h)anthracene	µg/kg	35	8.2 U	8.2 U
Dibenzofuran	µg/kg	--	--	--
Diethyl phthalate	µg/kg	--	--	--
Dimethyl phthalate	µg/kg	--	--	--
Fluoranthene	µg/kg	310	36	46
Fluorene	µg/kg	32	3.3 U	10 J
Hexachlorobenzene	µg/kg	--	--	--
Hexachlorobutadiene	µg/kg	--	--	--
Hexachlorocyclopentadiene	µg/kg	--	--	--
Hexachloroethane	µg/kg	--	--	--
Indeno(1,2,3-cd)pyrene	µg/kg	84	17 J	20
Isophorone	µg/kg	--	--	--
N-Nitrosodi-n-propylamine	µg/kg	--	--	--
N-Nitrosodiphenylamine	µg/kg	--	--	--
Naphthalene	µg/kg	16 J	2.9 U	2.9 U
Nitrobenzene	µg/kg	--	--	--
Pentachlorophenol	µg/kg	--	--	--
Phenanthrene	µg/kg	--	--	--
Phenol	µg/kg	--	--	--
Pyrene	µg/kg	210	31	41

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-209**	**SS-210**	**SS-211**
	Sample Name:	**SS-38443-120718-JC-209**	**SS-38443-120718-JC-210**	**SS-38443-120718-JC-211**
	Sample Date:	**12/07/2018**	**12/07/2018**	**12/07/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Herbicides				
2,4,5-T	µg/kg	--	--	--
2,4,5-TP (Silvex)	µg/kg	--	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/kg	--	--	--
PCBs				
Aroclor-1016 (PCB-1016)	µg/kg	--	--	--
Aroclor-1221 (PCB-1221)	µg/kg	--	--	--
Aroclor-1232 (PCB-1232)	µg/kg	--	--	--
Aroclor-1242 (PCB-1242)	µg/kg	--	--	--
Aroclor-1248 (PCB-1248)	µg/kg	--	--	--
Aroclor-1254 (PCB-1254)	µg/kg	--	--	--
Aroclor-1260 (PCB-1260)	µg/kg	--	--	--
Pesticides				
4,4'-DDD	µg/kg	--	--	--
4,4'-DDE	µg/kg	--	--	--
4,4'-DDT	µg/kg	--	--	--
Aldrin	µg/kg	--	--	--
alpha-BHC	µg/kg	--	--	--
alpha-Chlordane	µg/kg	--	--	--
beta-BHC	µg/kg	--	--	--
delta-BHC	µg/kg	--	--	--
Dieldrin	µg/kg	--	--	--
Endosulfan I	µg/kg	--	--	--
Endosulfan II	µg/kg	--	--	--
Endosulfan sulfate	µg/kg	--	--	--
Endrin	µg/kg	--	--	--
Endrin aldehyde	µg/kg	--	--	--
Endrin ketone	µg/kg	--	--	--
gamma-BHC (lindane)	µg/kg	--	--	--
gamma-Chlordane	µg/kg	--	--	--
Heptachlor	µg/kg	--	--	--
Heptachlor epoxide	µg/kg	--	--	--
Methoxychlor	µg/kg	--	--	--
Toxaphene	µg/kg	--	--	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-209**	**SS-210**	**SS-211**
	Sample Name:	**SS-38443-120718-JC-209**	**SS-38443-120718-JC-210**	**SS-38443-120718-JC-211**
	Sample Date:	**12/07/2018**	**12/07/2018**	**12/07/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs)				
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
Total heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
Total hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
Total pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
Total tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Metals				
Aluminum	mg/kg	11000	8700	7600
Antimony	mg/kg	0.29 J	0.27 J	0.29 J
Arsenic	mg/kg	9.6	7.8	7.2
Barium	mg/kg	98	71	70
Beryllium	mg/kg	0.68	0.51	0.47
Cadmium	mg/kg	0.25	0.18 J	0.18 J
Calcium	mg/kg	11000	1500	1700
Chromium	mg/kg	15	12	11
Chromium III (trivalent)	mg/kg	--	--	--
Chromium VI (hexavalent)	mg/kg	--	--	--
Cobalt	mg/kg	9.7	8.0	7.6

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-209**	**SS-210**	**SS-211**
	Sample Name:	**SS-38443-120718-JC-209**	**SS-38443-120718-JC-210**	**SS-38443-120718-JC-211**
	Sample Date:	**12/07/2018**	**12/07/2018**	**12/07/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Metals				
Copper	mg/kg	17	14	13
Iron	mg/kg	19000	16000	14000
Lead	mg/kg	25	20	23
Lead - coarse fraction	mg/kg	--	--	--
Lead - fine fraction	mg/kg	--	--	--
Lead - total (calculated by fine/coarse fraction)	mg/kg	--	--	--
Magnesium	mg/kg	6000	1600	1400
Manganese	mg/kg	950	730	770
Mercury	mg/kg	0.052 J	0.045 J	0.050 J
Nickel	mg/kg	16	13	11
Potassium	mg/kg	1100	740	700
Selenium	mg/kg	0.41 J	0.38 J	0.40 J
Silver	mg/kg	0.053 J	0.040 J	0.041 J
Sodium	mg/kg	53 U	58 U	48 U
Thallium	mg/kg	0.25	0.19 J	0.18 J
Vanadium	mg/kg	29	25	23
Zinc	mg/kg	66	56	49
General Chemistry				
Cyanide (total)	mg/kg	--	--	--
Soot carbon	mg/kg	--	--	--
Total organic carbon (TOC)	mg/kg	--	--	--

Notes:

R - Rejected
J - Estimated concentration
U - Not detected at the associated reporting limit
-- - Not applicable
UJ - Not detected; associated reporting limit is detected
PCBs - Polychlorinated Biphenyls

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-211**	**SS-212**	**SS-213**
	Sample Name:	**SS-38443-120718-JC-217**	**SS-38443-120718-JC-212**	**SS-38443-120718-JC-213**
	Sample Date:	**12/07/2018**	**12/07/2018**	**12/07/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
		Duplicate		
Parameters	**Unit**			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/kg	--	--	--
1,1,2,2-Tetrachloroethane	µg/kg	--	--	--
1,1,2-Trichloroethane	µg/kg	--	--	--
1,1-Dichloroethane	µg/kg	--	--	--
1,1-Dichloroethene	µg/kg	--	--	--
1,2,4-Trichlorobenzene	µg/kg	--	--	--
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	--	--	--
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	--	--	--
1,2-Dichlorobenzene	µg/kg	--	--	--
1,2-Dichloroethane	µg/kg	--	--	--
1,2-Dichloropropane	µg/kg	--	--	--
1,3-Dichlorobenzene	µg/kg	--	--	--
1,4-Dichlorobenzene	µg/kg	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	--	--	--
2-Hexanone	µg/kg	--	--	--
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	--	--	--
Acetone	µg/kg	--	--	--
Benzene	µg/kg	--	--	--
Bromodichloromethane	µg/kg	--	--	--
Bromoform	µg/kg	--	--	--
Bromomethane (Methyl bromide)	µg/kg	--	--	--
Carbon disulfide	µg/kg	--	--	--
Carbon tetrachloride	µg/kg	--	--	--
Chlorobenzene	µg/kg	--	--	--
Chloroethane	µg/kg	--	--	--
Chloroform (Trichloromethane)	µg/kg	--	--	--
Chloromethane (Methyl chloride)	µg/kg	--	--	--
cis-1,2-Dichloroethene	µg/kg	--	--	--
cis-1,3-Dichloropropene	µg/kg	--	--	--
Cyclohexane	µg/kg	--	--	--
Dibromochloromethane	µg/kg	--	--	--
Dichlorodifluoromethane (CFC-12)	µg/kg	--	--	--
Ethylbenzene	µg/kg	--	--	--
Isopropyl benzene	µg/kg	--	--	--
Methyl acetate	µg/kg	--	--	--
Methyl cyclohexane	µg/kg	--	--	--
Methyl tert butyl ether (MTBE)	µg/kg	--	--	--
Methylene chloride	µg/kg	--	--	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-211**	**SS-212**	**SS-213**
	Sample Name:	**SS-38443-120718-JC-217**	**SS-38443-120718-JC-212**	**SS-38443-120718-JC-213**
	Sample Date:	**12/07/2018**	**12/07/2018**	**12/07/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
		Duplicate		
Parameters	**Unit**			
Volatile Organic Compounds				
Styrene	µg/kg	--	--	--
Tetrachloroethene	µg/kg	--	--	--
Toluene	µg/kg	--	--	--
trans-1,2-Dichloroethene	µg/kg	--	--	--
trans-1,3-Dichloropropene	µg/kg	--	--	--
Trichloroethene	µg/kg	--	--	--
Trichlorofluoromethane (CFC-11)	µg/kg	--	--	--
Trifluorotrichloroethane (CFC-113)	µg/kg	--	--	--
Vinyl chloride	µg/kg	--	--	--
Xylenes (total)	µg/kg	--	--	--
Semivolatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	--	--	--
2,4,5-Trichlorophenol	µg/kg	--	--	--
2,4,6-Trichlorophenol	µg/kg	--	--	--
2,4-Dichlorophenol	µg/kg	--	--	--
2,4-Dimethylphenol	µg/kg	--	--	--
2,4-Dinitrophenol	µg/kg	--	--	--
2,4-Dinitrotoluene	µg/kg	--	--	--
2,6-Dinitrotoluene	µg/kg	--	--	--
2-Chloronaphthalene	µg/kg	17 U	17 U	17 U
2-Chlorophenol	µg/kg	--	--	--
2-Methylnaphthalene	µg/kg	4.2 J	27	4.2 J
2-Methylphenol	µg/kg	--	--	--
2-Nitroaniline	µg/kg	--	--	--
2-Nitrophenol	µg/kg	--	--	--
3&4-Methylphenol	µg/kg	--	--	--
3,3'-Dichlorobenzidine	µg/kg	--	--	--
3-Nitroaniline	µg/kg	--	--	--
4,6-Dinitro-2-methylphenol	µg/kg	--	--	--
4-Bromophenyl phenyl ether	µg/kg	--	--	--
4-Chloro-3-methylphenol	µg/kg	--	--	--
4-Chloroaniline	µg/kg	--	--	--
4-Chlorophenyl phenyl ether	µg/kg	--	--	--
4-Nitroaniline	µg/kg	--	--	--
4-Nitrophenol	µg/kg	--	--	--
Acenaphthene	µg/kg	3.4 U	3.5 U	3.5 U
Acenaphthylene	µg/kg	--	--	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-211**	**SS-212**	**SS-213**
	Sample Name:	**SS-38443-120718-JC-217**	**SS-38443-120718-JC-212**	**SS-38443-120718-JC-213**
	Sample Date:	**12/07/2018**	**12/07/2018**	**12/07/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
		Duplicate		
Parameters	**Unit**			
Semivolatile Organic Compounds				
Acetophenone	µg/kg	--	--	--
Anthracene	µg/kg	2.9 U	2.9 U	3.0 U
Atrazine	µg/kg	--	--	--
Benzaldehyde	µg/kg	--	--	--
Benzo(a)anthracene	µg/kg	9.0 J	6.9 J	12 J
Benzo(a)pyrene	µg/kg	14 J	11 J	19
Benzo(b)fluoranthene	µg/kg	18	10 J	25
Benzo(g,h,i)perylene	µg/kg	--	--	--
Benzo(k)fluoranthene	µg/kg	9.9 J	8.5 U	12 J
Biphenyl (1,1-Biphenyl)	µg/kg	--	--	--
bis(2-Chloroethoxy)methane	µg/kg	--	--	--
bis(2-Chloroethyl)ether	µg/kg	--	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	--	--	--
Butyl benzylphthalate (BBP)	µg/kg	--	--	--
Caprolactam	µg/kg	--	--	--
Carbazole	µg/kg	--	--	--
Chrysene	µg/kg	12 J	10 J	20
Di-n-butylphthalate (DBP)	µg/kg	--	--	--
Di-n-octyl phthalate (DnOP)	µg/kg	--	--	--
Dibenz(a,h)anthracene	µg/kg	8.2 U	8.4 U	8.5 U
Dibenzofuran	µg/kg	--	--	--
Diethyl phthalate	µg/kg	--	--	--
Dimethyl phthalate	µg/kg	--	--	--
Fluoranthene	µg/kg	21	15 J	29
Fluorene	µg/kg	3.3 UJ	5.0 J	3.4 U
Hexachlorobenzene	µg/kg	--	--	--
Hexachlorobutadiene	µg/kg	--	--	--
Hexachlorocyclopentadiene	µg/kg	--	--	--
Hexachloroethane	µg/kg	--	--	--
Indeno(1,2,3-cd)pyrene	µg/kg	13 J	9.0 U	15 J
Isophorone	µg/kg	--	--	--
N-Nitrosodi-n-propylamine	µg/kg	--	--	--
N-Nitrosodiphenylamine	µg/kg	--	--	--
Naphthalene	µg/kg	2.9 U	2.9 U	3.0 U
Nitrobenzene	µg/kg	--	--	--
Pentachlorophenol	µg/kg	--	--	--
Phenanthrene	µg/kg	--	--	--
Phenol	µg/kg	--	--	--
Pyrene	µg/kg	16 J	14 J	23

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-211**	**SS-212**	**SS-213**
	Sample Name:	**SS-38443-120718-JC-217**	**SS-38443-120718-JC-212**	**SS-38443-120718-JC-213**
	Sample Date:	**12/07/2018**	**12/07/2018**	**12/07/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
		Duplicate		
Parameters	**Unit**			
Herbicides				
2,4,5-T	µg/kg	--	--	--
2,4,5-TP (Silvex)	µg/kg	--	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/kg	--	--	--
PCBs				
Aroclor-1016 (PCB-1016)	µg/kg	--	--	--
Aroclor-1221 (PCB-1221)	µg/kg	--	--	--
Aroclor-1232 (PCB-1232)	µg/kg	--	--	--
Aroclor-1242 (PCB-1242)	µg/kg	--	--	--
Aroclor-1248 (PCB-1248)	µg/kg	--	--	--
Aroclor-1254 (PCB-1254)	µg/kg	--	--	--
Aroclor-1260 (PCB-1260)	µg/kg	--	--	--
Pesticides				
4,4'-DDD	µg/kg	--	--	--
4,4'-DDE	µg/kg	--	--	--
4,4'-DDT	µg/kg	--	--	--
Aldrin	µg/kg	--	--	--
alpha-BHC	µg/kg	--	--	--
alpha-Chlordane	µg/kg	--	--	--
beta-BHC	µg/kg	--	--	--
delta-BHC	µg/kg	--	--	--
Dieldrin	µg/kg	--	--	--
Endosulfan I	µg/kg	--	--	--
Endosulfan II	µg/kg	--	--	--
Endosulfan sulfate	µg/kg	--	--	--
Endrin	µg/kg	--	--	--
Endrin aldehyde	µg/kg	--	--	--
Endrin ketone	µg/kg	--	--	--
gamma-BHC (lindane)	µg/kg	--	--	--
gamma-Chlordane	µg/kg	--	--	--
Heptachlor	µg/kg	--	--	--
Heptachlor epoxide	µg/kg	--	--	--
Methoxychlor	µg/kg	--	--	--
Toxaphene	µg/kg	--	--	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-211**	**SS-212**	**SS-213**
	Sample Name:	**SS-38443-120718-JC-217**	**SS-38443-120718-JC-212**	**SS-38443-120718-JC-213**
	Sample Date:	**12/07/2018**	**12/07/2018**	**12/07/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
		Duplicate		
Parameters	**Unit**			
Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs)				
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
Total heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
Total hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
Total pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
Total tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Metals				
Aluminum	mg/kg	9300	14000	10000
Antimony	mg/kg	0.25 J	0.22 J	0.33 J
Arsenic	mg/kg	7.2	10	9.4
Barium	mg/kg	78	83	91
Beryllium	mg/kg	0.50	0.62	0.58
Cadmium	mg/kg	0.15 J	0.11 J	0.21
Calcium	mg/kg	2200	2100	2200
Chromium	mg/kg	15	19	14
Chromium III (trivalent)	mg/kg	--	--	--
Chromium VI (hexavalent)	mg/kg	--	--	--
Cobalt	mg/kg	8.2	9.4	9.3

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-211**	**SS-212**	**SS-213**
	Sample Name:	**SS-38443-120718-JC-217**	**SS-38443-120718-JC-212**	**SS-38443-120718-JC-213**
	Sample Date:	**12/07/2018**	**12/07/2018**	**12/07/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
		Duplicate		
Parameters	**Unit**			
Metals				
Copper	mg/kg	13	16	15
Iron	mg/kg	17000	23000	19000
Lead	mg/kg	16	16	19
Lead - coarse fraction	mg/kg	--	--	--
Lead - fine fraction	mg/kg	--	--	--
Lead - total (calculated by fine/coarse fraction)	mg/kg	--	--	--
Magnesium	mg/kg	2300	2900	2000
Manganese	mg/kg	850	650	1000
Mercury	mg/kg	0.046 J	0.044 J	0.049 J
Nickel	mg/kg	14	19	15
Potassium	mg/kg	860	910	970
Selenium	mg/kg	0.35 J	0.42 J	0.41 J
Silver	mg/kg	0.036 J	0.031 J	0.036 J
Sodium	mg/kg	58 U	48 U	49 U
Thallium	mg/kg	0.18 J	0.23	0.21
Vanadium	mg/kg	27	34	30
Zinc	mg/kg	53	56	57
General Chemistry				
Cyanide (total)	mg/kg	--	--	--
Soot carbon	mg/kg	--	--	--
Total organic carbon (TOC)	mg/kg	--	--	--

Notes:

R - Rejected
J - Estimated concentration
U - Not detected at the associated reporting limit
-- - Not applicable
UJ - Not detected; associated reporting limit is detected
PCBs - Polychlorinated Biphenyls

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-214**	**SS-215**	**SS-216**
	Sample Name:	**SS-38443-120718-JC-214**	**SS-38443-120718-JC-215**	**SS-38443-120718-JC-216**
	Sample Date:	**12/07/2018**	**12/07/2018**	**12/07/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/kg	--	--	--
1,1,2,2-Tetrachloroethane	µg/kg	--	--	--
1,1,2-Trichloroethane	µg/kg	--	--	--
1,1-Dichloroethane	µg/kg	--	--	--
1,1-Dichloroethene	µg/kg	--	--	--
1,2,4-Trichlorobenzene	µg/kg	--	--	--
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	--	--	--
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	--	--	--
1,2-Dichlorobenzene	µg/kg	--	--	--
1,2-Dichloroethane	µg/kg	--	--	--
1,2-Dichloropropane	µg/kg	--	--	--
1,3-Dichlorobenzene	µg/kg	--	--	--
1,4-Dichlorobenzene	µg/kg	--	--	--
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	--	--	--
2-Hexanone	µg/kg	--	--	--
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	--	--	--
Acetone	µg/kg	--	--	--
Benzene	µg/kg	--	--	--
Bromodichloromethane	µg/kg	--	--	--
Bromoform	µg/kg	--	--	--
Bromomethane (Methyl bromide)	µg/kg	--	--	--
Carbon disulfide	µg/kg	--	--	--
Carbon tetrachloride	µg/kg	--	--	--
Chlorobenzene	µg/kg	--	--	--
Chloroethane	µg/kg	--	--	--
Chloroform (Trichloromethane)	µg/kg	--	--	--
Chloromethane (Methyl chloride)	µg/kg	--	--	--
cis-1,2-Dichloroethene	µg/kg	--	--	--
cis-1,3-Dichloropropene	µg/kg	--	--	--
Cyclohexane	µg/kg	--	--	--
Dibromochloromethane	µg/kg	--	--	--
Dichlorodifluoromethane (CFC-12)	µg/kg	--	--	--
Ethylbenzene	µg/kg	--	--	--
Isopropyl benzene	µg/kg	--	--	--
Methyl acetate	µg/kg	--	--	--
Methyl cyclohexane	µg/kg	--	--	--
Methyl tert butyl ether (MTBE)	µg/kg	--	--	--
Methylene chloride	µg/kg	--	--	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-214**	**SS-215**	**SS-216**
	Sample Name:	**SS-38443-120718-JC-214**	**SS-38443-120718-JC-215**	**SS-38443-120718-JC-216**
	Sample Date:	**12/07/2018**	**12/07/2018**	**12/07/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
Styrene	µg/kg	--	--	--
Tetrachloroethene	µg/kg	--	--	--
Toluene	µg/kg	--	--	--
trans-1,2-Dichloroethene	µg/kg	--	--	--
trans-1,3-Dichloropropene	µg/kg	--	--	--
Trichloroethene	µg/kg	--	--	--
Trichlorofluoromethane (CFC-11)	µg/kg	--	--	--
Trifluorotrichloroethane (CFC-113)	µg/kg	--	--	--
Vinyl chloride	µg/kg	--	--	--
Xylenes (total)	µg/kg	--	--	--
Semivolatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/kg	--	--	--
2,4,5-Trichlorophenol	µg/kg	--	--	--
2,4,6-Trichlorophenol	µg/kg	--	--	--
2,4-Dichlorophenol	µg/kg	--	--	--
2,4-Dimethylphenol	µg/kg	--	--	--
2,4-Dinitrophenol	µg/kg	--	--	--
2,4-Dinitrotoluene	µg/kg	--	--	--
2,6-Dinitrotoluene	µg/kg	--	--	--
2-Chloronaphthalene	µg/kg	17 U	17 U	18 U
2-Chlorophenol	µg/kg	--	--	--
2-Methylnaphthalene	µg/kg	2.3 U	64	5.0 J
2-Methylphenol	µg/kg	--	--	--
2-Nitroaniline	µg/kg	--	--	--
2-Nitrophenol	µg/kg	--	--	--
3&4-Methylphenol	µg/kg	--	--	--
3,3'-Dichlorobenzidine	µg/kg	--	--	--
3-Nitroaniline	µg/kg	--	--	--
4,6-Dinitro-2-methylphenol	µg/kg	--	--	--
4-Bromophenyl phenyl ether	µg/kg	--	--	--
4-Chloro-3-methylphenol	µg/kg	--	--	--
4-Chloroaniline	µg/kg	--	--	--
4-Chlorophenyl phenyl ether	µg/kg	--	--	--
4-Nitroaniline	µg/kg	--	--	--
4-Nitrophenol	µg/kg	--	--	--
Acenaphthene	µg/kg	3.4 U	8.6 J	3.6 U
Acenaphthylene	µg/kg	--	--	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-214**	**SS-215**	**SS-216**
	Sample Name:	**SS-38443-120718-JC-214**	**SS-38443-120718-JC-215**	**SS-38443-120718-JC-216**
	Sample Date:	**12/07/2018**	**12/07/2018**	**12/07/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Semivolatile Organic Compounds				
Acetophenone	µg/kg	--	--	--
Anthracene	µg/kg	2.9 U	2.9 U	3.1 U
Atrazine	µg/kg	--	--	--
Benzaldehyde	µg/kg	--	--	--
Benzo(a)anthracene	µg/kg	14 J	16 J	6.5 J
Benzo(a)pyrene	µg/kg	22	23	12 J
Benzo(b)fluoranthene	µg/kg	28	27	12 J
Benzo(g,h,i)perylene	µg/kg	--	--	--
Benzo(k)fluoranthene	µg/kg	13 J	15 J	8.8 U
Biphenyl (1,1-Biphenyl)	µg/kg	--	--	--
bis(2-Chloroethoxy)methane	µg/kg	--	--	--
bis(2-Chloroethyl)ether	µg/kg	--	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	--	--	--
Butyl benzylphthalate (BBP)	µg/kg	--	--	--
Caprolactam	µg/kg	--	--	--
Carbazole	µg/kg	--	--	--
Chrysene	µg/kg	21	25	8.4 J
Di-n-butylphthalate (DBP)	µg/kg	--	--	--
Di-n-octyl phthalate (DnOP)	µg/kg	--	--	--
Dibenz(a,h)anthracene	µg/kg	8.2 U	8.3 U	8.8 U
Dibenzofuran	µg/kg	--	--	--
Diethyl phthalate	µg/kg	--	--	--
Dimethyl phthalate	µg/kg	--	--	--
Fluoranthene	µg/kg	35	39	14 J
Fluorene	µg/kg	3.3 U	8.3 J	3.5 U
Hexachlorobenzene	µg/kg	--	--	--
Hexachlorobutadiene	µg/kg	--	--	--
Hexachlorocyclopentadiene	µg/kg	--	--	--
Hexachloroethane	µg/kg	--	--	--
Indeno(1,2,3-cd)pyrene	µg/kg	19	18	11 J
Isophorone	µg/kg	--	--	--
N-Nitrosodi-n-propylamine	µg/kg	--	--	--
N-Nitrosodiphenylamine	µg/kg	--	--	--
Naphthalene	µg/kg	2.9 U	13 J	3.1 U
Nitrobenzene	µg/kg	--	--	--
Pentachlorophenol	µg/kg	--	--	--
Phenanthrene	µg/kg	--	--	--
Phenol	µg/kg	--	--	--
Pyrene	µg/kg	28	34	12 J

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-214**	**SS-215**	**SS-216**
	Sample Name:	**SS-38443-120718-JC-214**	**SS-38443-120718-JC-215**	**SS-38443-120718-JC-216**
	Sample Date:	**12/07/2018**	**12/07/2018**	**12/07/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Herbicides				
2,4,5-T	µg/kg	--	--	--
2,4,5-TP (Silvex)	µg/kg	--	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/kg	--	--	--
PCBs				
Aroclor-1016 (PCB-1016)	µg/kg	--	--	--
Aroclor-1221 (PCB-1221)	µg/kg	--	--	--
Aroclor-1232 (PCB-1232)	µg/kg	--	--	--
Aroclor-1242 (PCB-1242)	µg/kg	--	--	--
Aroclor-1248 (PCB-1248)	µg/kg	--	--	--
Aroclor-1254 (PCB-1254)	µg/kg	--	--	--
Aroclor-1260 (PCB-1260)	µg/kg	--	--	--
Pesticides				
4,4'-DDD	µg/kg	--	--	--
4,4'-DDE	µg/kg	--	--	--
4,4'-DDT	µg/kg	--	--	--
Aldrin	µg/kg	--	--	--
alpha-BHC	µg/kg	--	--	--
alpha-Chlordane	µg/kg	--	--	--
beta-BHC	µg/kg	--	--	--
delta-BHC	µg/kg	--	--	--
Dieldrin	µg/kg	--	--	--
Endosulfan I	µg/kg	--	--	--
Endosulfan II	µg/kg	--	--	--
Endosulfan sulfate	µg/kg	--	--	--
Endrin	µg/kg	--	--	--
Endrin aldehyde	µg/kg	--	--	--
Endrin ketone	µg/kg	--	--	--
gamma-BHC (lindane)	µg/kg	--	--	--
gamma-Chlordane	µg/kg	--	--	--
Heptachlor	µg/kg	--	--	--
Heptachlor epoxide	µg/kg	--	--	--
Methoxychlor	µg/kg	--	--	--
Toxaphene	µg/kg	--	--	--

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-214**	**SS-215**	**SS-216**
	Sample Name:	**SS-38443-120718-JC-214**	**SS-38443-120718-JC-215**	**SS-38443-120718-JC-216**
	Sample Date:	**12/07/2018**	**12/07/2018**	**12/07/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Polychlorinated Dibenzodioxins (PCDDs) & Polychlorinated Dibenzofurans (PCDFs)				
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	--	--	--
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	--	--	--
Total heptachlorodibenzofuran (HpCDF)	pg/g	--	--	--
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	--	--	--
Total hexachlorodibenzofuran (HxCDF)	pg/g	--	--	--
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	--	--	--
Total pentachlorodibenzofuran (PeCDF)	pg/g	--	--	--
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	--	--	--
Total tetrachlorodibenzofuran (TCDF)	pg/g	--	--	--
Metals				
Aluminum	mg/kg	9800	9900	8800
Antimony	mg/kg	0.23 J	0.32 J	0.25 J
Arsenic	mg/kg	7.8	8.5	7.7
Barium	mg/kg	61	81	80
Beryllium	mg/kg	0.49	0.54	0.47
Cadmium	mg/kg	0.11 J	0.20	0.17 J
Calcium	mg/kg	1600	2100	2800
Chromium	mg/kg	13	14	13
Chromium III (trivalent)	mg/kg	--	--	--
Chromium VI (hexavalent)	mg/kg	--	--	--
Cobalt	mg/kg	8.2	8.7	8.1

Table 2

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October-December 2018

	Location ID:	**SS-214**	**SS-215**	**SS-216**
	Sample Name:	**SS-38443-120718-JC-214**	**SS-38443-120718-JC-215**	**SS-38443-120718-JC-216**
	Sample Date:	**12/07/2018**	**12/07/2018**	**12/07/2018**
	Depth:	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Unit**			
Metals				
Copper	mg/kg	12	15	13
Iron	mg/kg	16000	17000	16000
Lead	mg/kg	14	22	18
Lead - coarse fraction	mg/kg	--	--	--
Lead - fine fraction	mg/kg	--	--	--
Lead - total (calculated by fine/coarse fraction)	mg/kg	--	--	--
Magnesium	mg/kg	1800	2000	2100
Manganese	mg/kg	570	840	840
Mercury	mg/kg	0.038 J	0.053 J	0.053 J
Nickel	mg/kg	12	13	13
Potassium	mg/kg	770	940	860
Selenium	mg/kg	0.34 J	0.43 J	0.33 J
Silver	mg/kg	0.026 J	0.044 J	0.035 J
Sodium	mg/kg	47 U	51 U	61 U
Thallium	mg/kg	0.17 J	0.21	0.18 J
Vanadium	mg/kg	26	28	25
Zinc	mg/kg	44	54	54
General Chemistry				
Cyanide (total)	mg/kg	--	--	--
Soot carbon	mg/kg	--	--	--
Total organic carbon (TOC)	mg/kg	--	--	--

Notes:

R - Rejected
J - Estimated concentration
U - Not detected at the associated reporting limit
-- - Not applicable
UJ - Not detected; associated reporting limit is detected
PCBs - Polychlorinated Biphenyls

Table 3

Analytical Methods
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October - December 2018

Parameter	Method	Matrix	Holding Time	
			Collection to Extraction (Days)	Collection or Extraction to Analysis (Days)
Volatile Organic Compounds (VOCs)	SW-846 8260B	Soil	48 hours	14
Semi-Volatile Organic Compounds (SVOCs)	SW-846 8270C	Soil	14	40
Organochlorine Pesticides	SW-846 8081A	Soil	14	40
Polychlorinated Biphenyls (PCBs)	SW-846 8082A	Soil	14	40
Chlorinated Herbicides	SW-846 8151A	Soil	14	40
Dioxins & Furans	SW-846 8290A	Soil	30	45
Select Metals	SW-846 6020	Soil	-	180
Fractionated Lead	SW-846 6010	Soil	-	180
Mercury	SW-846 7471A	Soil	-	28
Total Organic Carbon	Walkley Black/Lloyd Kahn	Soil	-	28
Hexavalent and Trivalent Chromium	SW-846 7198	Soil	30	24 hours
Cyanide	SW-846 9012B	Soil	-	14

Notes:

SW-846 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, 1986, with subsequent revision
\- - Not applicable

Table 4

Qualified Sample Results Due to Holding Time Exceedance
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October - December 2018

Parameter	Sample ID	Holding Time (days)	Holding Time Criteria (days)	Analyte	Qualified Sample Results	Units
VOCs	SS-38443-103018-JC-064	15	14	cis-1,2-Dichloroethene	28 J	µg/Kg
				Toluene	320 J	µg/Kg
				Methyl cyclohexane	350 J	µg/Kg
				Acetone	420 J	µg/Kg
				Xylenes (total)	510 J	µg/Kg
				Tetrachloroethene	58 J	µg/Kg
				Ethylbenzene	65 J	µg/Kg
				Trichloroethene	81 J	µg/Kg
				Methylene chloride	980 J	µg/Kg
				1,1,1-Trichloroethane	18 UJ	µg/Kg
				1,1,2,2-Tetrachloroethane	18 UJ	µg/Kg
				1,1,2-Trichloroethane	16 UJ	µg/Kg
				1,1-Dichloroethane	11 UJ	µg/Kg
				1,1-Dichloroethene	19 UJ	µg/Kg
				1,2,4-Trichlorobenzene	170 UJ	µg/Kg
				1,2-Dibromo-3-chloropropane (DBCP)	110 UJ	µg/Kg
				1,2-Dibromoethane (Ethylene dibromide)	99 UJ	µg/Kg
				1,2-Dichlorobenzene	26 UJ	µg/Kg
				1,2-Dichloroethane	15 UJ	µg/Kg
				1,2-Dichloropropane	10 UJ	µg/Kg
				1,3-Dichlorobenzene	26 UJ	µg/Kg
				1,4-Dichlorobenzene	21 UJ	µg/Kg
				2-Butanone (Methyl ethyl ketone) (MEK)	200 UJ	µg/Kg
				2-Hexanone	330 UJ	µg/Kg
				4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	300 UJ	µg/Kg
				Benzene	10 UJ	µg/Kg
				Bromodichloromethane	35 UJ	µg/Kg
				Bromoform	130 UJ	µg/Kg
				Bromomethane (Methyl bromide)	210 UJ	µg/Kg
				Carbon disulfide	140 UJ	µg/Kg

Table 4

Qualified Sample Results Due to Holding Time Exceedance
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October - December 2018

Parameter	Sample ID	Holding Time (days)	Holding Time Criteria (days)	Analyte	Qualified Sample Results	Units
VOCs	SS-38443-103018-JC-064	15	14	cis-1,2-Dichloroethene	28 J	µg/Kg
				Toluene	320 J	µg/Kg
				Methyl cyclohexane	350 J	µg/Kg
				Acetone	420 J	µg/Kg
				Xylenes (total)	510 J	µg/Kg
				Carbon tetrachloride	23 UJ	µg/Kg
				Chlorobenzene	44 UJ	µg/Kg
				Chloroethane	190 UJ	µg/Kg
				Chloroform (Trichloromethane)	11 UJ	µg/Kg
				Chloromethane (Methyl chloride)	83 UJ	µg/Kg
				cis-1,3-Dichloropropene	46 UJ	µg/Kg
				Cyclohexane	200 UJ	µg/Kg
				Dibromochloromethane	150 UJ	µg/Kg
				Dichlorodifluoromethane (CFC-12)	66 UJ	µg/Kg
				Isopropyl benzene	48 UJ	µg/Kg
				Methyl acetate	660 UJ	µg/Kg
				Methyl tert butyl ether (MTBE)	46 UJ	µg/Kg
				Styrene	15 UJ	µg/Kg
				trans-1,2-Dichloroethene	19 UJ	µg/Kg
				trans-1,3-Dichloropropene	130 UJ	µg/Kg
				Trichlorofluoromethane (CFC-11)	58 UJ	µg/Kg
				Trifluorotrichloroethane (CFC-113)	84 UJ	µg/Kg
				Vinyl chloride	13 UJ	µg/Kg

Notes:

J - Estimated concentration
UJ - Not detected; associated reporting limit is estimated
VOCs - Volatile Organic Compounds

Table 5

Qualified Sample Results Due to Outlying Continuing Calibration Results
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October - December 2018

Parameter	Analyte	Calibration Date (mm/dd/yyyy)	%D	Associated Sample ID	Qualified Result	Units
VOCs	Dichlorodifluoromethane (CFC-12)	11/14/2018	60	SS-38443-103118-JC-092	1.1 UJ	µg/Kg
				SS-38443-103118-JC-083	1.1 UJ	µg/Kg
				SS-38443-103118-JC-078	0.85 UJ	µg/Kg
				SS-38443-103118-JC-080	1.0 UJ	µg/Kg
				SS-38443-103118-JC-090	0.98 UJ	µg/Kg
VOCs	Methyl acetate	11/14/2018	42	SS-38443-103018-JC-064	660 UJ	µg/Kg
				SS-38443-103118-JC-092	4.1 UJ	µg/Kg
				SS-38443-103118-JC-083	4.1 UJ	µg/Kg
				SS-38443-103118-JC-078	3.1 UJ	µg/Kg
				SS-38443-103118-JC-080	3.7 UJ	µg/Kg
				SS-38443-103118-JC-090	3.5 UJ	µg/Kg
VOCs	1,1,2,2-Tetrachloroethane	11/15/2018	41	SS-38443-110218-JC-047	17 UJ	µg/Kg
				SS-38443-110218-JC-099	1.4 UJ	µg/Kg
				SS-38443-110218-JC-101	1.4 UJ	µg/Kg
VOCs	Dichlorodifluoromethane (CFC-12)	11/15/2018	56	SS-38443-110218-JC-047	65 UJ	µg/Kg
				SS-38443-110218-JC-099	0.94 UJ	µg/Kg
				SS-38443-110218-JC-101	0.92 UJ	µg/Kg
VOCs	1,1,2,2-Tetrachloroethane	11/16/2018	31	SS-38443-110218-JC-100	1.9 UJ	µg/Kg
				SS-38443-110218-JC-121	1.6 UJ	µg/Kg
VOCs	Bromoform	11/16/2018	28	SS-38443-110218-JC-100	3.2 UJ	µg/Kg
				SS-38443-110218-JC-121	2.7 UJ	µg/Kg
VOCs	Carbon tetrachloride	11/16/2018	26	SS-38443-110218-JC-100	4.3 UJ	µg/Kg
				SS-38443-110218-JC-121	3.7 UJ	µg/Kg
VOCs	Vinyl chloride	11/16/2018	32	SS-38443-110218-JC-100	1.1 UJ	µg/Kg
				SS-38443-110218-JC-121	0.94 UJ	µg/Kg
VOCs	Bromomethane (Methyl bromide)	11/28/2018	26	SS-38443-112018-JC-016	1.1 UJ	µg/Kg
				SS-38443-112018-JC-017	0.92 UJ	µg/Kg
				SS-38443-112018-JC-018	0.94 UJ	µg/Kg

Table 5

Qualified Sample Results Due to Outlying Continuing Calibration Results
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October - December 2018

Parameter	Analyte	Calibration Date (mm/dd/yyyy)	%D	Associated Sample ID	Qualified Result	Units
VOCs	Bromomethane (Methyl bromide)	12/18/2018	33	S-38443-121418-JC-150	1.0 UJ	µg/Kg
				S-38443-121418-JC-151	0.92 UJ	µg/Kg
				S-38443-121418-JC-152	1.1 UJ	µg/Kg
SVOCs	bis(2-Chloroisopropyl) ether	11/01/2018	44	SS-38443-102618-JC-026	18 UJ	µg/Kg
				SS-38443-102618-JC-027	11 UJ	µg/Kg
SVOCs	bis(2-Chloroisopropyl) ether	11/09/2018	62	SS-38443-102918-JC-130	12 UJ	µg/Kg
				SS-38443-102918-JC-134	14 UJ	µg/Kg
				SS-38443-102918-JC-050	55 UJ	µg/Kg
SVOCs	N-Nitrosodi-n-propylamine	11/09/2018	26	SS-38443-102918-JC-130	13 UJ	µg/Kg
				SS-38443-102918-JC-134	15 UJ	µg/Kg
				SS-38443-102918-JC-050	61 UJ	µg/Kg
SVOCs	bis(2-Chloroisopropyl) ether	11/12/2018	67	SS-38443-102918-JC-135	11 UJ	µg/Kg
				SS-38443-102918-JC-049	15 UJ	µg/Kg
				SS-38443-102918-JC-051	24 UJ	µg/Kg
				SS-38443-102918-JC-048	13 UJ	µg/Kg
				SS-38443-102918-JC-053	30 UJ	µg/Kg
SVOCs	N-Nitrosodi-n-propylamine	11/12/2018	28	SS-38443-102918-JC-135	13 UJ	µg/Kg
				SS-38443-102918-JC-049	17 UJ	µg/Kg
				SS-38443-102918-JC-051	27 UJ	µg/Kg
				SS-38443-102918-JC-048	14 UJ	µg/Kg
				SS-38443-102918-JC-053	33 UJ	µg/Kg
SVOCs	Pentachlorophenol	11/16/2018	29	SS-38443-103018-JC-059	5300 UJ	µg/Kg
				SS-38443-103018-JC-062	67 UJ	µg/Kg
				SS-38443-103018-JC-063	69 UJ	µg/Kg
				SS-38443-103018-JC-064	62 UJ	µg/Kg
				SS-38443-103018-JC-065	68 UJ	µg/Kg
				SS-38443-103018-JC-069	330 UJ	µg/Kg
				SS-38443-103018-JC-070	62 UJ	µg/Kg
				SS-38443-103018-JC-071	64 UJ	µg/Kg
				SS-38443-103018-JC-072	63 UJ	µg/Kg
				SS-38443-103018-JC-073	66 UJ	µg/Kg
				SS-38443-103018-JC-074	120 UJ	µg/Kg
				SS-38443-103018-JC-075	67 UJ	µg/Kg

Table 5

Qualified Sample Results Due to Outlying Continuing Calibration Results
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October - December 2018

Parameter	Analyte	Calibration Date (mm/dd/yyyy)	%D	Associated Sample ID	Qualified Result	Units
SVOCs	Pentachlorophenol	11/16/2018	29	SS-38443-103018-JC-076	67 UJ	µg/Kg
				SS-38443-103018-JC-118	170 UJ	µg/Kg
				SS-38443-103118-JC-032	60 UJ	µg/Kg
				SS-38443-103118-JC-081	66 UJ	µg/Kg
				SS-38443-103118-JC-087	130 UJ	µg/Kg
				SS-38443-103118-JC-090	61 UJ	µg/Kg
				SS-38443-121018-JC-200	75 UJ	µg/Kg
				SS-38443-121018-JC-204	76 UJ	µg/Kg
				SS-38443-121018-JC-205	81 UJ	µg/Kg
				SS-38443-121018-JC-206	73 UJ	µg/Kg
				SS-38443-121018-JC-207	77 UJ	µg/Kg
				SS-38443-121018-JC-221	74 UJ	µg/Kg
				SS-38443-121018-JC-222	74 UJ	µg/Kg
				SS-38443-121018-JC-223	72 UJ	µg/Kg
				SS-38443-121018-JC-224	73 UJ	µg/Kg
SVOCs	Pentachlorophenol	11/19/2018	30	SS-38443-103118-JC-091	120 UJ	µg/Kg
				SS-38443-103118-JC-119	130 UJ	µg/Kg
SVOCs	Hexachlorobenzene	12/20/2018	29	SS-38443-121018-JC-208	3.8 UJ	µg/Kg
				SS-38443-121018-JC-225	3.7 UJ	µg/Kg
				SS-38443-121018-JC-199	3.7 UJ	µg/Kg
				S-38443-121418-JC-151	3.1 UJ	µg/Kg
				S-38443-121418-JC-152	3.2 UJ	µg/Kg
SVOCs	Hexachlorocyclopentadiene	12/20/2018	47	SS-38443-121018-JC-208	83 UJ	µg/Kg
				SS-38443-121018-JC-225	81 UJ	µg/Kg
				SS-38443-121018-JC-199	80 UJ	µg/Kg
				S-38443-121418-JC-151	66 UJ	µg/Kg
				S-38443-121418-JC-152	70 UJ	µg/Kg

Table 5

Qualified Sample Results Due to Outlying Continuing Calibration Results
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October - December 2018

Parameter	Analyte	Calibration Date (mm/dd/yyyy)	%D	Associated Sample ID	Qualified Result	Units
Pesticides	Methoxychlor	11/16/2018	22	SS-38443-102618-JC-026	120 UJ	µg/Kg
				SS-38443-102618-JC-027	72 UJ	µg/Kg
Pesticides	Methoxychlor	11/11/2018	23	SS-38443-102918-JC-114	8.0 UJ	µg/Kg
Pesticides	Methoxychlor	11/12/2018	21	SS-38443-102618-JC-028	8.1 UJ	µg/Kg
				SS-38443-102618-JC-034	13 UJ	µg/Kg
				SS-38443-102918-JC-055	110 UJ	µg/Kg
				SS-38443-102918-JC-115	52 UJ	µg/Kg
				SS-38443-102918-JC-136	41 UJ	µg/Kg
Pesticides	Methoxychlor	12/04/2018	24	SS-38443-112018-JC-017	38 UJ	µg/Kg

Notes:

-- - Not applicable
%D - Percent difference
J - Estimated concentration
SVOCs - Semi-volatile Organic Compounds
UJ - Not detected; associated reporting limit is estimated
VOCs - Volatile Organic Compounds

Table 6

Qualified Sample Results Due to Analyte Concentrations in the Method Blanks
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October - December 2018

Parameter	Analyte	Analysis Date (mm/dd/yyyy)	Blank Result *	Raw Blank Result	Sample ID	Original Result	Qualified Result	Units
VOCs	Ethylbenzene	11/12/2018	20 J	12 J	SS-38443-102918-JC-055	42 J	42 U	µg/Kg
			15 J	12 J	SS-38443-102918-JC-053	22 J	22 U	µg/Kg
			15 J	12 J	SS-38443-102918-JC-136	33 J	33 U	µg/Kg
VOCs	Toluene	11/12/2018	96 J	57 J	SS-38443-102918-JC-055	220 J	220 U	µg/Kg
			69 J	57 J	SS-38443-102918-JC-053	120 J	120 U	µg/Kg
			66 J	57 J	SS-38443-102918-JC-135	67 J	67 U	µg/Kg
			71 J	57 J	SS-38443-102918-JC-136	110 J	110 U	µg/Kg
VOCs	cis-1,2-Dichloroethene	11/11/2018	1.4 J	1.02 J	SS-38443-103018-JC-046	1.1 J	1.4 U	µg/Kg
			1.2 J	1.02 J	SS-38443-103018-JC-076	1.2 J	1.2 U	µg/Kg
			1.5 J	1.02 J	SS-38443-103018-JC-118	1.5 J	1.5 U	µg/Kg
VOCs	Ethylbenzene	11/13/2018	19 J	16 J	SS-38443-103018-JC-054	24 J	24 U	µg/Kg
			20 J	16 J	SS-38443-103018-JC-056	21 J	21 U	µg/Kg
			24 J	16 J	SS-38443-103018-JC-057	33 J	33 U	µg/Kg
			21 J	16 J	SS-38443-103018-JC-060	46 J	46 U	µg/Kg
			19 J	16 J	SS-38443-103018-JC-065	190 J	190 U	µg/Kg
			18 J	16 J	SS-38443-103018-JC-117	15 J	18 U	µg/Kg
VOCs	Tetrachloroethene	11/13/2018	20 J	17 J	SS-38443-103018-JC-054	41 J	41 U	µg/Kg
			21 J	17 J	SS-38443-103018-JC-056	55 J	55 U	µg/Kg
			26 J	17 J	SS-38443-103018-JC-057	41 J	41 U	µg/Kg
			19 J	17 J	SS-38443-103018-JC-117	42 J	42 U	µg/Kg
VOCs	Toluene	11/13/2018	113 J	97 J	SS-38443-103018-JC-054	180 J	180 U	µg/Kg
			119 J	97 J	SS-38443-103018-JC-056	110 J	119 U	µg/Kg
			108 J	97 J	SS-38443-103018-JC-117	100 J	108 U	µg/Kg
			147 J	97 J	SS-38443-103018-JC-057	190 J	190 U	µg/Kg
			130 J	97 J	SS-38443-103018-JC-060	290 J	290 U	µg/Kg
VOCs	cis-1,2-Dichloroethene	11/16/2018	0.54 J	0.443 J	SS-38443-110218-JC-100	0.96 J	0.96 U	µg/Kg
			0.51 J	0.443 J	SS-38443-110218-JC-121	0.93 J	0.93 U	µg/Kg
SVOCs	Di-n-butylphthalate (DBP)	11/26/2018	31 J	25.1 J	SS-38443-111918-JC-023	28 J	31 U	µg/Kg

Table 6

Qualified Sample Results Due to Analyte Concentrations in the Method Blanks
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October - December 2018

Parameter	Analyte	Analysis Date (mm/dd/yyyy)	Blank Result *	Raw Blank Result	Sample ID	Original Result	Qualified Result	Units
SVOCs	Di-n-butylphthalate (DBP)	11/30/2018	64 J	55.6 J	SS-38443-112718-AS-045	51 J	64 U	µg/Kg
SVOCs	Di-n-butylphthalate (DBP)	12/03/2018	26 J	22.1 J	SS-38443-112718-AS-042	27 J	27 U	µg/Kg
SVOCs	Di-n-butylphthalate (DBP)	01/04/2019	93	81.3	SS-38443-121018-JC-218	86	93 U	µg/Kg
Dioxin/Furan	1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	11/04/2018	11.2	6.07	SS-38443-102618-JC-026	38	38 U	pg/g
			6.8	6.07	SS-38443-102618-JC-027	7.7 J	7.7 U	pg/g
			7.7	6.07	SS-38443-102618-JC-028	14	14 U	pg/g
			9.0	6.07	SS-38443-102618-JC-033	11 J	11 U	pg/g
			12.4	6.07	SS-38443-102618-JC-034	27	27 U	pg/g
Dioxin/Furan	1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	11/04/2018	2.1 J	1.88 J	SS-38443-102618-JC-027	2.3 J	2.3 U	pg/g
			2.4 J	1.88 J	SS-38443-102618-JC-028	8.3	8.3 U	pg/g
			2.8 J	1.88 J	SS-38443-102618-JC-033	7.8 J	7.8 U	pg/g
			3.8 J	1.88 J	SS-38443-102618-JC-034	9.6	9.6 U	pg/g

Notes:

* - Blank result adjusted for moisture content
U - Not detected at the associated reporting limit
J - Estimated concentration
SVOCs - Semi-volatile Organic Compounds
VOCs - Volatile Organic Compounds

Table 7

Qualified Sample Data Due to Outlying of Surrogate Recoveries
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October - December 2018

Parameter	Sample ID	Surrogate	Surrogate % Recovery	Control Limits % Recovery	Analyte	Qualified Result	Units
VOCs	SS-38443-102618-JC-026	1,2-Dichloroethane-d4	178	48-123	1,3-Dichlorobenzene	1.9 J	µg/Kg
		Dibromofluoromethane	206	49-132	Trichloroethene	3.5 J	µg/Kg
		Toluene-D8	178	62-135	Tetrachloroethene	3.7 J	µg/Kg
					Methylene chloride	55 J	µg/Kg
VOCs	SS-38443-102618-JC-033	Toluene-D8	139	62-135	2-Butanone (Methyl ethyl ketone) (MEK)	7.5 J	µg/Kg
	SS-38443-102918-JC-133	1,2-Dichloroethane-d4	127	48-123	2-Butanone (Methyl ethyl ketone) (MEK)	18 J	µg/Kg
		p-Bromofluorobenzene	145	49-141	Tetrachloroethene	1.2 J	µg/Kg
		Toluene-D8	155	62-135	Trichloroethene	3.7 J	µg/Kg
VOCs	SS-38443-102918-JC-134	1,2-Dichloroethane-d4	221	48-123	1,1-Dichloroethane	5.3 J	µg/Kg
		Dibromofluoromethane	228	49-132	1,3-Dichlorobenzene	2.1 J	µg/Kg
		p-Bromofluorobenzene	145	49-141	2-Butanone (Methyl ethyl ketone) (MEK)	46 J	µg/Kg
		Toluene-D8	176	62-135	Benzene	21 J	µg/Kg
VOCs	SS-38443-102918-JC-051	Toluene-D8	137	62-135	2-Butanone (Methyl ethyl ketone) (MEK)	18 J	µg/Kg
					Tetrachloroethene	1.7 J	µg/Kg
					Trichloroethene	9.6 J	µg/Kg
VOCs	SS-38443-102918-JC-115	p-Bromofluorobenzene	172	49-141	1,1,1-Trichloroethane	2.1 J	µg/Kg
		Toluene-D8	150	62-135	1,1-Dichloroethane	25 J	µg/Kg
					2-Butanone (Methyl ethyl ketone) (MEK)	22 J	µg/Kg
					cis-1,2-Dichloroethene	32 J	µg/Kg
					Methyl cyclohexane	3.7 J	µg/Kg
					Toluene	3.1 J	µg/Kg
					trans-1,2-Dichloroethene	10 J	µg/Kg
					Trichloroethene	35 J	µg/Kg
					Vinyl chloride	4.9 J	µg/Kg

Table 7

Qualified Sample Data Due to Outlying of Surrogate Recoveries
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October - December 2018

Parameter	Sample ID	Surrogate	Surrogate % Recovery	Control Limits % Recovery	Analyte	Qualified Result	Units
VOCs	SS-38443-103018-JC-046	p-Bromofluorobenzene	146	49-141	Trichloroethene	3.4 J	µg/Kg
VOCs	SS-38443-103018-JC-057	p-Bromofluorobenzene	30	49-141	1,1-Dichloroethane	21 UJ	µg/Kg
					1,1-Dichloroethene	35 UJ	µg/Kg
					1,2-Dichloropropane	19 UJ	µg/Kg
					Benzene	19 UJ	µg/Kg
					Carbon disulfide	250 UJ	µg/Kg
					Ethylbenzene	33 UJ	µg/Kg
					1,1,1-Trichloroethane	33 UJ	µg/Kg
					1,1,2,2-Tetrachloroethane	33 UJ	µg/Kg
					1,1,2-Trichloroethane	31 UJ	µg/Kg
					1,2,4-Trichlorobenzene	310 UJ	µg/Kg
					1,2-Dibromo-3-chloropropane (DBCP)	210 UJ	µg/Kg
					1,2-Dibromoethane (Ethylene dibromide)	190 UJ	µg/Kg
					1,2-Dichlorobenzene	49 UJ	µg/Kg
					1,2-Dichloroethane	28 UJ	µg/Kg
					1,3-Dichlorobenzene	49 UJ	µg/Kg
					1,4-Dichlorobenzene	40 UJ	µg/Kg
					2-Butanone (Methyl ethyl ketone) (MEK)	370 UJ	µg/Kg
					2-Hexanone	620 UJ	µg/Kg
					4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	560 UJ	µg/Kg
					Acetone	570 UJ	µg/Kg
					Bromodichloromethane	66 UJ	µg/Kg
					Bromoform	250 UJ	µg/Kg
					Bromomethane (Methyl bromide)	390 UJ	µg/Kg
					Chloromethane (Methyl chloride)	160 UJ	µg/Kg
					Carbon tetrachloride	42 UJ	µg/Kg
					Chlorobenzene	82 UJ	µg/Kg
					Chloroethane	350 UJ	µg/Kg
					Chloroform (Trichloromethane)	21 UJ	µg/Kg
					Dibromochloromethane	280 UJ	µg/Kg
					Isopropyl benzene	89 UJ	µg/Kg
					Methyl acetate	1200 UJ	µg/Kg
					Methyl tert butyl ether (MTBE)	87 UJ	µg/Kg
					Methylene chloride	900 UJ	µg/Kg
					Styrene	28 UJ	µg/Kg
					trans-1,3-Dichloropropene	250 UJ	µg/Kg
					Trifluorotrichloroethane (CFC-113)	160 UJ	µg/Kg
					cis-1,2-Dichloroethene	390 J	µg/Kg

Table 7

Qualified Sample Data Due to Outlying of Surrogate Recoveries
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October - December 2018

Parameter	Sample ID	Surrogate	Surrogate % Recovery	Control Limits % Recovery	Analyte	Qualified Result		Units
VOCs	SS-38443-103018-JC-057	p-Bromofluorobenzene	30	49-141	Xylenes (total)	54	UJ	µg/Kg
					cis-1,3-Dichloropropene	87	UJ	µg/Kg
					Cyclohexane	380	UJ	µg/Kg
					Dichlorodifluoromethane (CFC-12)	120	UJ	µg/Kg
					Methyl cyclohexane	160	UJ	µg/Kg
					trans-1,2-Dichloroethene	66	J	µg/Kg
					Trichloroethene	13000	J	µg/Kg
					Trichlorofluoromethane (CFC-11)	110	UJ	µg/Kg
					Tetrachloroethene	41	UJ	µg/Kg
					Vinyl chloride	24	UJ	µg/Kg
VOCs	SS-38443-103018-JC-059	Dibromofluoromethane	5	49-138	1,1-Dichloroethane		R	µg/Kg
					1,1-Dichloroethene		R	µg/Kg
					1,2-Dichloropropane		R	µg/Kg
					Benzene	190	J	µg/Kg
					Carbon disulfide		R	µg/Kg
					Chloromethane (Methyl chloride)		R	µg/Kg
					cis-1,2-Dichloroethene	51	J	µg/Kg
					Acetone	1200	J	µg/Kg
					Xylenes (total)	14000	J	µg/Kg
					Isopropyl benzene	2700	J	µg/Kg
					Ethylbenzene	4000	J	µg/Kg
					2-Butanone (Methyl ethyl ketone) (MEK)	510	J	µg/Kg
					Chlorobenzene	920	J	µg/Kg
					1,1,1-Trichloroethane		R	µg/Kg
					1,1,2,2-Tetrachloroethane		R	µg/Kg
					1,1,2-Trichloroethane		R	µg/Kg
					cis-1,3-Dichloropropene		R	µg/Kg
					1,2,4-Trichlorobenzene		R	µg/Kg
					1,2-Dibromo-3-chloropropane (DBCP)		R	µg/Kg
					1,2-Dibromoethane (Ethylene dibromide)		R	µg/Kg
					1,2-Dichlorobenzene		R	µg/Kg
					1,2-Dichloroethane		R	µg/Kg
					1,3-Dichlorobenzene		R	µg/Kg
					1,4-Dichlorobenzene		R	µg/Kg
					2-Hexanone		R	µg/Kg
					4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)		R	µg/Kg
					Bromodichloromethane		R	µg/Kg
					Bromoform		R	µg/Kg

Table 7

Qualified Sample Data Due to Outlying of Surrogate Recoveries
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October - December 2018

Parameter	Sample ID	Surrogate	Surrogate % Recovery	Control Limits % Recovery	Analyte	Qualified Result	Units
VOCs	SS-38443-103018-JC-059	Dibromofluoromethane	5	49-138	Bromomethane (Methyl bromide)	R	µg/Kg
					Carbon tetrachloride	R	µg/Kg
					Chloroethane	R	µg/Kg
					Chloroform (Trichloromethane)	R	µg/Kg
					Dibromochloromethane	R	µg/Kg
					Methyl acetate	R	µg/Kg
					Methyl tert butyl ether (MTBE)	R	µg/Kg
					Methylene chloride	R	µg/Kg
					Styrene	R	µg/Kg
					Tetrachloroethene	R	µg/Kg
					trans-1,3-Dichloropropene	R	µg/Kg
					Cyclohexane	1400 J	µg/Kg
					Trifluorotrichloroethane (CFC-113)	R	µg/Kg
					Dichlorodifluoromethane (CFC-12)	R	µg/Kg
					Methyl cyclohexane	11000 J	µg/Kg
					Toluene	1100 J	µg/Kg
					trans-1,2-Dichloroethene	R	µg/Kg
					Trichloroethene	R	µg/Kg
					Trichlorofluoromethane (CFC-11)	R	µg/Kg
					Vinyl chloride	R	µg/Kg
VOCs	SS-38443-103018-JC-060	p-Bromofluorobenzene	18	48-151	1,1-Dichloroethane	25 UJ	µg/Kg
					1,1-Dichloroethene	42 UJ	µg/Kg
					1,2-Dichloropropane	22 UJ	µg/Kg
					Benzene	22 UJ	µg/Kg
					Carbon disulfide	300 UJ	µg/Kg
					Chloromethane (Methyl chloride)	180 UJ	µg/Kg
					Ethylbenzene	46 UJ	µg/Kg
					cis-1,2-Dichloroethene	25 UJ	µg/Kg
					cis-1,3-Dichloropropene	100 UJ	µg/Kg
					Cyclohexane	450 UJ	µg/Kg
					Tetrachloroethene	7200 J	µg/Kg
					1,1,1-Trichloroethane	39 UJ	µg/Kg
					1,1,2,2-Tetrachloroethane	39 UJ	µg/Kg
					1,1,2-Trichloroethane	36 UJ	µg/Kg
					1,2,4-Trichlorobenzene	370 UJ	µg/Kg
					1,2-Dibromo-3-chloropropane (DBCP)	240 UJ	µg/Kg
					1,2-Dibromoethane (Ethylene dibromide)	220 UJ	µg/Kg
					1,2-Dichlorobenzene	58 UJ	µg/Kg

Table 7

Qualified Sample Data Due to Outlying of Surrogate Recoveries
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October - December 2018

Parameter	Sample ID	Surrogate	Surrogate % Recovery	Control Limits % Recovery	Analyte	Qualified Result	Units
VOCs	SS-38443-103018-JC-060	p-Bromofluorobenzene	18	48-151	1,2-Dichloroethane	33 UJ	µg/Kg
					1,3-Dichlorobenzene	58 UJ	µg/Kg
					1,4-Dichlorobenzene	47 UJ	µg/Kg
					2-Butanone (Methyl ethyl ketone) (MEK)	440 UJ	µg/Kg
					2-Hexanone	730 UJ	µg/Kg
					4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	660 UJ	µg/Kg
					Acetone	680 UJ	µg/Kg
					Bromodichloromethane	78 UJ	µg/Kg
					Bromoform	290 UJ	µg/Kg
					Bromomethane (Methyl bromide)	460 UJ	µg/Kg
					Dichlorodifluoromethane (CFC-12)	150 UJ	µg/Kg
					Carbon tetrachloride	50 UJ	µg/Kg
					Chlorobenzene	97 UJ	µg/Kg
					Chloroethane	420 UJ	µg/Kg
					Chloroform (Trichloromethane)	25 UJ	µg/Kg
					Dibromochloromethane	320 UJ	µg/Kg
					Isopropyl benzene	110 UJ	µg/Kg
					Methyl acetate	1500 UJ	µg/Kg
					Methyl tert butyl ether (MTBE)	100 UJ	µg/Kg
					Methylene chloride	1100 UJ	µg/Kg
					Styrene	33 UJ	µg/Kg
					Methyl cyclohexane	180 UJ	µg/Kg
					trans-1,3-Dichloropropene	290 UJ	µg/Kg
					Trifluorotrichloroethane (CFC-113)	190 UJ	µg/Kg
					Xylenes (total)	64 UJ	µg/Kg
					trans-1,2-Dichloroethene	42 UJ	µg/Kg
					Trichloroethene	270 J	µg/Kg
					Trichlorofluoromethane (CFC-11)	130 UJ	µg/Kg
					Vinyl chloride	28 UJ	µg/Kg
VOCs	SS-38443-103018-JC-118	p-Bromofluorobenzene	148	49-141	Trichloroethene	2.7 J	µg/Kg
VOCs	SS-38443-103118-JC-083	1,2-Dichloroethane-d4	134	48-123	cis-1,2-Dichloroethene	0.93 J	µg/Kg
		Toluene-D8	160	62-135	Acetone	25 J	µg/Kg

Table 7

Qualified Sample Data Due to Outlying of Surrogate Recoveries
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October - December 2018

Parameter	Sample ID	Surrogate	Surrogate % Recovery	Control Limits % Recovery	Analyte	Qualified Result	Units
SVOCs	SS-38443-102918-JC-055	2,4,6-Tribromophenol	5	10-120	2,4,5-Trichlorophenol	R	µg/Kg
		2-Fluorophenol	5	29-120	2,4,6-Trichlorophenol	R	µg/Kg
		Phenol-d5	8	29-120	2,4-Dichlorophenol	R	µg/Kg
					2,4-Dimethylphenol	R	µg/Kg
					2,4-Dinitrophenol	R	µg/Kg
					2-Chlorophenol	R	µg/Kg
					2-Methylphenol	R	µg/Kg
					2-Nitrophenol	R	µg/Kg
					3&4-Methylphenol	R	µg/Kg
					4,6-Dinitro-2-methylphenol	R	µg/Kg
					4-Chloro-3-methylphenol	R	µg/Kg
					4-Nitrophenol	R	µg/Kg
					Pentachlorophenol	R	µg/Kg
					Phenol	R	µg/Kg
	SS-38443-102918-JC-115	2-Fluorophenol	10	29-120	2,4,5-Trichlorophenol	110 UJ	µg/Kg
		Phenol-d5	17	29-120	2,4,6-Trichlorophenol	110 UJ	µg/Kg
					2,4-Dichlorophenol	72 UJ	µg/Kg
					2,4-Dimethylphenol	66 UJ	µg/Kg
					2,4-Dinitrophenol	230 UJ	µg/Kg
					2-Chlorophenol	16 UJ	µg/Kg
					2-Methylphenol	51 UJ	µg/Kg
					2-Nitrophenol	21 UJ	µg/Kg
					3&4-Methylphenol	48 UJ	µg/Kg
					4,6-Dinitro-2-methylphenol	130 UJ	µg/Kg
					4-Chloro-3-methylphenol	74 UJ	µg/Kg
					4-Nitrophenol	150 UJ	µg/Kg
					Pentachlorophenol	96 UJ	µg/Kg
					Phenol	13 UJ	µg/Kg

Table 7

Qualified Sample Data Due to Outlying of Surrogate Recoveries
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October - December 2018

Parameter	Sample ID	Surrogate	Surrogate % Recovery	Control Limits % Recovery	Analyte	Qualified Result		Units
SVOCs	SS-38443-103018-JC-060	2-Fluorophenol	12	29-120	2,4,5-Trichlorophenol	91	UJ	µg/Kg
		Phenol-d5	26	29-120	2,4,6-Trichlorophenol	85	UJ	µg/Kg
					2,4-Dichlorophenol	58	UJ	µg/Kg
					2,4-Dimethylphenol	53	UJ	µg/Kg
					2,4-Dinitrophenol	190	UJ	µg/Kg
					2-Chlorophenol	13	UJ	µg/Kg
					2-Methylphenol	41	UJ	µg/Kg
					2-Nitrophenol	17	UJ	µg/Kg
					3&4-Methylphenol	38	UJ	µg/Kg
					4,6-Dinitro-2-methylphenol	110	UJ	µg/Kg
					4-Chloro-3-methylphenol	60	UJ	µg/Kg
					4-Nitrophenol	120	UJ	µg/Kg
					Pentachlorophenol	77	UJ	µg/Kg
					Phenol	11	UJ	µg/Kg
SVOCs	SS-38443-122018-JC-006	2-Fluorobiphenyl	30	32-120	Benzo(k)fluoranthene	150	J	µg/Kg
		2-Fluorophenol	23	29-120	2-Methylnaphthalene	18	J	µg/Kg
		Nitrobenzene-D5	18	30-120	Phenanthrene	200	J	µg/Kg
		Phenol-d5	23	29-120	Indeno(1,2,3-cd)pyrene	220	J	µg/Kg
		Terphenyl-d14	34	41-120	Benzo(a)anthracene	230	J	µg/Kg
					Benzo(g,h,i)perylene	250	J	µg/Kg
					Pyrene	280	J	µg/Kg
					Acenaphthylene	29	J	µg/Kg
					Chrysene	300	J	µg/Kg
					Benzo(a)pyrene	310	J	µg/Kg
					Anthracene	44	J	µg/Kg
					Benzo(b)fluoranthene	440	J	µg/Kg
					Fluoranthene	450	J	µg/Kg
					Dibenz(a,h)anthracene	60	J	µg/Kg
					bis(2-Chloroisopropyl) ether	38	UJ	µg/Kg
					2,4,5-Trichlorophenol	260	UJ	µg/Kg
					2,4,6-Trichlorophenol	240	UJ	µg/Kg
					2,4-Dichlorophenol	170	UJ	µg/Kg
					2,4-Dimethylphenol	150	UJ	µg/Kg
					2,4-Dinitrophenol	530	UJ	µg/Kg
					2,4-Dinitrotoluene	230	UJ	µg/Kg
					2,6-Dinitrotoluene	210	UJ	µg/Kg
					2-Chloronaphthalene	53	UJ	µg/Kg
					2-Chlorophenol	38	UJ	µg/Kg

Table 7

Qualified Sample Data Due to Outlying of Surrogate Recoveries
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October - December 2018

Parameter	Sample ID	Surrogate	Surrogate % Recovery	Control Limits % Recovery	Analyte	Qualified Result		Units
SVOCs	SS-38443-122018-JC-006	2-Fluorobiphenyl	30	32-120	2-Methylphenol	120	UJ	µg/Kg
		2-Fluorophenol	23	29-120	2-Nitroaniline	150	UJ	µg/Kg
		Nitrobenzene-D5	18	30-120	2-Nitrophenol	49	UJ	µg/Kg
		Phenol-d5	23	29-120	3&4-Methylphenol	110	UJ	µg/Kg
		Terphenyl-d14	34	41-120	3,3'-Dichlorobenzidine	160	UJ	µg/Kg
					3-Nitroaniline	180	UJ	µg/Kg
					4,6-Dinitro-2-methylphenol	300	UJ	µg/Kg
					4-Bromophenyl phenyl ether	53	UJ	µg/Kg
					4-Chloro-3-methylphenol	170	UJ	µg/Kg
					4-Chloroaniline	110	UJ	µg/Kg
					4-Chlorophenyl phenyl ether	53	UJ	µg/Kg
					4-Nitroaniline	230	UJ	µg/Kg
					4-Nitrophenol	350	UJ	µg/Kg
					Acenaphthene	11	UJ	µg/Kg
					Acetophenone	41	UJ	µg/Kg
					Atrazine	140	UJ	µg/Kg
					Benzaldehyde	86	UJ	µg/Kg
					Biphenyl (1,1-Biphenyl)	64	UJ	µg/Kg
					bis(2-Chloroethoxy)methane	45	UJ	µg/Kg
					bis(2-Chloroethyl)ether	45	UJ	µg/Kg
					bis(2-Ethylhexyl)phthalate (DEHP)	190	UJ	µg/Kg
					Butyl benzylphthalate (BBP)	83	UJ	µg/Kg
					Caprolactam	280	UJ	µg/Kg
					Carbazole	71	UJ	µg/Kg
					Di-n-butylphthalate (DBP)	83	UJ	µg/Kg
					Di-n-octyl phthalate (DnOP)	110	UJ	µg/Kg
					Dibenzofuran	49	UJ	µg/Kg
					Diethyl phthalate	120	UJ	µg/Kg
					Dimethyl phthalate	53	UJ	µg/Kg
					Fluorene	10	UJ	µg/Kg
					Hexachlorobenzene	11	UJ	µg/Kg
					Hexachlorobutadiene	45	UJ	µg/Kg
					Hexachlorocyclopentadiene	230	UJ	µg/Kg
					Hexachloroethane	34	UJ	µg/Kg
					Isophorone	45	UJ	µg/Kg
					N-Nitrosodi-n-propylamine	41	UJ	µg/Kg
					N-Nitrosodiphenylamine	45	UJ	µg/Kg
					Naphthalene	9.1	UJ	µg/Kg
					Nitrobenzene	49	UJ	µg/Kg
					Pentachlorophenol	220	UJ	µg/Kg
					Phenol	30	UJ	µg/Kg

Table 7

Qualified Sample Data Due to Outlying of Surrogate Recoveries
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October - December 2018

Parameter	Sample ID	Surrogate	Surrogate % Recovery	Control Limits % Recovery	Analyte	Qualified Result	Units
Dioxin/Furan	SS-38443-102618-JC-027	1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD) C13	39	40-135	1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	53 J	pg/g
		13C-OCDF	38	40-135	1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	7.7 UJ	pg/g
Dioxin/Furan	SS-38443-102618-JC-028	1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD) C13	37	40-135	1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	41 J	pg/g
		13C-OCDF	34	40-135	1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	14 UJ	pg/g
Dioxin/Furan	SS-38443-102618-JC-034	1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF) C13	35	40-135	1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	27 UJ	pg/g
		1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF) C13	38	40-135	1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	9.6 UJ	pg/g
		1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF) C13	38	40-135	1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	1.6 UJ	pg/g
		1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF) C13	36	40-135	1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	0.93 UJ	pg/g
		1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF) C13	36	40-135	1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	0.83 UJ	pg/g
		13C-OCDF	39	40-135	1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	1.2 UJ	pg/g
		2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF) C13	38	40-135	2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	1.0 UJ	pg/g
PCBs	SS-38443-102918-JC-049	(PCB 209) Decachlorobiphenyl	279	10-132	Aroclor-1260 (PCB-1260)	250 J	µg/Kg
PCBs	SS-38443-121018-JC-208	(PCB 209) Decachlorobiphenyl	133	10-132	Aroclor-1254 (PCB-1254)	140 J	µg/Kg
PCBs	SS-38443-121018-JC-204	(PCB 209) Decachlorobiphenyl	146	10-132	Aroclor-1254 (PCB-1254)	160 J	µg/Kg
PCBs	SS-38443-121018-JC-218	(PCB 209) Decachlorobiphenyl	145	10-132	Aroclor-1254 (PCB-1254)	93 J	µg/Kg
Pesticides	SS-38443-112018-JC-037	(PCB 209) Decachlorobiphenyl	144	13-135	Heptachlor epoxide	3.8 J	µg/Kg
					alpha-Chlordane	8.9 J	µg/Kg
					gamma-Chlordane	9.2 J	µg/Kg
Pesticides	SS-38443-103118-JC-082	Tetrachloro-m-xylene	131	30-120	beta-BHC	5.1 J	µg/Kg

Notes:

J - Estimated concentration
PCBs - Polychlorinated Biphenyls
R - Rejected
SVOCs - Semi-volatile Organic Compounds
UJ - Not detected; associated reporting limit is estimated
VOCs - Volatile Organic Compounds

Table 8

Qualified Sample Results Due to Outlying Internal Standard (IS) Recoveries
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October - December 2018

Parameter	Sample ID	Internal Standard	IS Area Count (percent)	Control Limits (percent)	Analytes	Qualified Results	Units
VOCs	SS-38443-102618-JC-026	Fluorobenzene	32	50-200	1,3-Dichlorobenzene	1.9 J	µg/Kg
		Chlorobenzene-d5	15		Trichloroethene	3.5 J	µg/Kg
		1,4-Dichlorobenzene-d4	5		Tetrachloroethene	3.7 J	µg/Kg
					Methylene chloride	55 J	µg/Kg
					1,1,1-Trichloroethane	R	µg/Kg
					1,1,2,2-Tetrachloroethane	R	µg/Kg
					1,1,2-Trichloroethane	R	µg/Kg
					1,1-Dichloroethane	R	µg/Kg
					1,1-Dichloroethene	R	µg/Kg
					1,2,4-Trichlorobenzene	R	µg/Kg
					1,2-Dibromo-3-chloropropane (DBCP)	R	µg/Kg
					1,2-Dibromoethane (Ethylene dibromide)	R	µg/Kg
					1,2-Dichlorobenzene	R	µg/Kg
					1,2-Dichloroethane	R	µg/Kg
					1,2-Dichloropropane	R	µg/Kg
					1,4-Dichlorobenzene	R	µg/Kg
					2-Butanone (Methyl ethyl ketone) (MEK)	R	µg/Kg
					2-Hexanone	R	µg/Kg
					4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	R	µg/Kg
					Acetone	R	µg/Kg
					Benzene	R	µg/Kg
					Bromodichloromethane	R	µg/Kg
					Bromoform	R	µg/Kg
					Bromomethane (Methyl bromide)	R	µg/Kg
					Carbon disulfide	R	µg/Kg
					Carbon tetrachloride	R	µg/Kg
					Chlorobenzene	R	µg/Kg
					Chloroethane	R	µg/Kg
					Chloroform (Trichloromethane)	R	µg/Kg
					Chloromethane (Methyl chloride)	R	µg/Kg
					cis-1,2-Dichloroethene	R	µg/Kg
					cis-1,3-Dichloropropene	R	µg/Kg
					Cyclohexane	R	µg/Kg
					Dibromochloromethane	R	µg/Kg
					Dichlorodifluoromethane (CFC-12)	R	µg/Kg
					Ethylbenzene	R	µg/Kg
					Isopropyl benzene	R	µg/Kg
					Methyl acetate	R	µg/Kg
					Methyl cyclohexane	R	µg/Kg

Table 8

Qualified Sample Results Due to Outlying Internal Standard (IS) Recoveries
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October - December 2018

Parameter	Sample ID	Internal Standard	IS Area Count (percent)	Control Limits (percent)	Analytes	Qualified Results	Units
VOCs	SS-38443-102618-JC-026	Fluorobenzene	32	50-200	Methyl tert butyl ether (MTBE)	R	µg/Kg
		Chlorobenzene-d5	15		Styrene	R	µg/Kg
		1,4-Dichlorobenzene-d4	5		Toluene	R	µg/Kg
					trans-1,2-Dichloroethene	R	µg/Kg
					trans-1,3-Dichloropropene	R	µg/Kg
					Trichlorofluoromethane (CFC-11)	R	µg/Kg
					Trifluorotrichloroethane (CFC-113)	R	µg/Kg
					Vinyl chloride	R	µg/Kg
					Xylenes (total)	R	µg/Kg
VOCs	SS-38443-102618-JC-027	1,4-Dichlorobenzene-d4	39	50-200	1,1,2,2-Tetrachloroethane	R	µg/Kg
					1,2,4-Trichlorobenzene	R	µg/Kg
					1,2-Dibromo-3-chloropropane (DBCP)	R	µg/Kg
					1,2-Dichlorobenzene	R	µg/Kg
					1,3-Dichlorobenzene	R	µg/Kg
					1,4-Dichlorobenzene	R	µg/Kg
VOCs	SS-38443-102618-JC-033	Chlorobenzene-d5	31	50-200	1,1,2,2-Tetrachloroethane	R	µg/Kg
		1,4-Dichlorobenzene-d4	11		1,1,2-Trichloroethane	R	µg/Kg
					1,2,4-Trichlorobenzene	R	µg/Kg
					1,2-Dibromo-3-chloropropane (DBCP)	R	µg/Kg
					1,2-Dibromoethane (Ethylene dibromide)	R	µg/Kg
					1,2-Dichlorobenzene	R	µg/Kg
					1,3-Dichlorobenzene	R	µg/Kg
					1,4-Dichlorobenzene	R	µg/Kg
					2-Hexanone	R	µg/Kg
					4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	R	µg/Kg
					Bromoform	R	µg/Kg
					Chlorobenzene	R	µg/Kg
					Dibromochloromethane	R	µg/Kg
					Ethylbenzene	R	µg/Kg
					Isopropyl benzene	R	µg/Kg
					Styrene	R	µg/Kg
					Tetrachloroethene	R	µg/Kg
					Toluene	R	µg/Kg
					trans-1,3-Dichloropropene	R	µg/Kg
					Xylenes (total)	R	µg/Kg

Table 8

Qualified Sample Results Due to Outlying Internal Standard (IS) Recoveries
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October - December 2018

Parameter	Sample ID	Internal Standard	IS Area Count (percent)	Control Limits (percent)	Analytes	Qualified Results	Units
VOCs	SS-38443-102618-JC-034	Chlorobenzene-d5	42	50-200	1,1,2,2-Tetrachloroethane	R	µg/Kg
		1,4-Dichlorobenzene-d4	24		1,1,2-Trichloroethane	R	µg/Kg
					1,2,4-Trichlorobenzene	R	µg/Kg
					1,2-Dibromo-3-chloropropane (DBCP)	R	µg/Kg
					1,2-Dibromoethane (Ethylene dibromide)	R	µg/Kg
					1,2-Dichlorobenzene	R	µg/Kg
					1,3-Dichlorobenzene	R	µg/Kg
					1,4-Dichlorobenzene	R	µg/Kg
					2-Hexanone	R	µg/Kg
					4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	R	µg/Kg
					Bromoform	R	µg/Kg
					Chlorobenzene	R	µg/Kg
					Dibromochloromethane	R	µg/Kg
					Ethylbenzene	R	µg/Kg
					Isopropyl benzene	R	µg/Kg
					Styrene	R	µg/Kg
					Tetrachloroethene	R	µg/Kg
					Toluene	R	µg/Kg
					trans-1,3-Dichloropropene	R	µg/Kg
					Xylenes (total)	R	µg/Kg
VOCs	SS-38443-102918-JC-141	1,4-Dichlorobenzene-d4	37	50-200	1,1,2,2-Tetrachloroethane	R	µg/Kg
					1,2,4-Trichlorobenzene	R	µg/Kg
					1,2-Dibromo-3-chloropropane (DBCP)	R	µg/Kg
					1,2-Dichlorobenzene	R	µg/Kg
					1,3-Dichlorobenzene	R	µg/Kg
					1,4-Dichlorobenzene	R	µg/Kg
VOCs	SS-38443-102918-JC-134	Fluorobenzene	23	50-200	1,3-Dichlorobenzene	2.1 J	µg/Kg
		Chlorobenzene-d5	6		Benzene	21 J	µg/Kg
		1,4-Dichlorobenzene-d4	1		2-Butanone (Methyl ethyl ketone) (MEK)	46 J	µg/Kg
					1,1-Dichloroethane	5.3 J	µg/Kg
					1,1,1-Trichloroethane	R	µg/Kg
					1,1,2,2-Tetrachloroethane	R	µg/Kg
					1,1,2-Trichloroethane	R	µg/Kg
					1,1-Dichloroethene	R	µg/Kg
					1,2,4-Trichlorobenzene	R	µg/Kg
					1,2-Dibromo-3-chloropropane (DBCP)	R	µg/Kg
					1,2-Dibromoethane (Ethylene dibromide)	R	µg/Kg

Table 8

Qualified Sample Results Due to Outlying Internal Standard (IS) Recoveries
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October - December 2018

Parameter	Sample ID	Internal Standard	IS Area Count (percent)	Control Limits (percent)	Analytes	Qualified Results	Units
VOCs	SS-38443-102918-JC-134	Fluorobenzene	23	50-200	1,2-Dichlorobenzene	R	µg/Kg
		Chlorobenzene-d5	6		1,2-Dichloroethane	R	µg/Kg
		1,4-Dichlorobenzene-d4	1		1,2-Dichloropropane	R	µg/Kg
					1,4-Dichlorobenzene	R	µg/Kg
					2-Hexanone	R	µg/Kg
					4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	R	µg/Kg
					Acetone	R	µg/Kg
					Bromodichloromethane	R	µg/Kg
					Bromoform	R	µg/Kg
					Bromomethane (Methyl bromide)	R	µg/Kg
					Carbon disulfide	R	µg/Kg
					Carbon tetrachloride	R	µg/Kg
					Chlorobenzene	R	µg/Kg
					Chloroethane	R	µg/Kg
					Chloroform (Trichloromethane)	R	µg/Kg
					Chloromethane (Methyl chloride)	R	µg/Kg
					cis-1,2-Dichloroethene	R	µg/Kg
					cis-1,3-Dichloropropene	R	µg/Kg
					Cyclohexane	R	µg/Kg
					Dibromochloromethane	R	µg/Kg
					Dichlorodifluoromethane (CFC-12)	R	µg/Kg
					Ethylbenzene	R	µg/Kg
					Isopropyl benzene	R	µg/Kg
					Methyl acetate	R	µg/Kg
					Methyl cyclohexane	R	µg/Kg
					Methyl tert butyl ether (MTBE)	R	µg/Kg
					Methylene chloride	R	µg/Kg
					Styrene	R	µg/Kg
					Tetrachloroethene	R	µg/Kg
					Toluene	R	µg/Kg
					trans-1,2-Dichloroethene	R	µg/Kg
					trans-1,3-Dichloropropene	R	µg/Kg
					Trichloroethene	R	µg/Kg
					Trichlorofluoromethane (CFC-11)	R	µg/Kg
					Trifluorotrichloroethane (CFC-113)	R	µg/Kg
					Vinyl chloride	R	µg/Kg
					Xylenes (total)	R	µg/Kg

Table 8

Qualified Sample Results Due to Outlying Internal Standard (IS) Recoveries
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October - December 2018

Parameter	Sample ID	Internal Standard	IS Area Count (percent)	Control Limits (percent)	Analytes	Qualified Results	Units
VOCs	SS-38443-102918-JC-050	1,4-Dichlorobenzene-d4	43	50-200	1,1,2,2-Tetrachloroethane	R	µg/Kg
					1,2,4-Trichlorobenzene	R	µg/Kg
					1,2-Dibromo-3-chloropropane (DBCP)	R	µg/Kg
					1,2-Dichlorobenzene	R	µg/Kg
					1,3-Dichlorobenzene	R	µg/Kg
					1,4-Dichlorobenzene	R	µg/Kg
VOCs	SS-38443-102918-JC-051	Fluorobenzene	46	50-200	Tetrachloroethene	1.7 J	µg/Kg
		Chlorobenzene-d5	28		2-Butanone (Methyl ethyl ketone) (MEK)	18 J	µg/Kg
		1,4-Dichlorobenzene-d4	10		Trichloroethene	9.6 J	µg/Kg
					1,1,1-Trichloroethane	R	µg/Kg
					1,1,2,2-Tetrachloroethane	R	µg/Kg
					1,1,2-Trichloroethane	R	µg/Kg
					1,1-Dichloroethane	R	µg/Kg
					1,1-Dichloroethene	R	µg/Kg
					1,2,4-Trichlorobenzene	R	µg/Kg
					1,2-Dibromo-3-chloropropane (DBCP)	R	µg/Kg
					1,2-Dibromoethane (Ethylene dibromide)	R	µg/Kg
					1,2-Dichlorobenzene	R	µg/Kg
					1,2-Dichloroethane	R	µg/Kg
					1,2-Dichloropropane	R	µg/Kg

Table 8

Qualified Sample Results Due to Outlying Internal Standard (IS) Recoveries
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October - December 2018

Parameter	Sample ID	Internal Standard	IS Area Count (percent)	Control Limits (percent)	Analytes	Qualified Results	Units
VOCs	SS-38443-102918-JC-051	Fluorobenzene	46	50-200	1,3-Dichlorobenzene	R	µg/Kg
		Chlorobenzene-d5	28		1,4-Dichlorobenzene	R	µg/Kg
		1,4-Dichlorobenzene-d4	10		2-Hexanone	R	µg/Kg
					4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	R	µg/Kg
					Acetone	R	µg/Kg
					Benzene	R	µg/Kg
					Bromodichloromethane	R	µg/Kg
					Bromoform	R	µg/Kg
					Bromomethane (Methyl bromide)	R	µg/Kg
					Carbon disulfide	R	µg/Kg
					Carbon tetrachloride	R	µg/Kg
					Chlorobenzene	R	µg/Kg
					Chloroethane	R	µg/Kg
					Chloroform (Trichloromethane)	R	µg/Kg
					Chloromethane (Methyl chloride)	R	µg/Kg
					cis-1,2-Dichloroethene	R	µg/Kg
					cis-1,3-Dichloropropene	R	µg/Kg
					Cyclohexane	R	µg/Kg
					Dibromochloromethane	R	µg/Kg
					Dichlorodifluoromethane (CFC-12)	R	µg/Kg
					Ethylbenzene	R	µg/Kg
					Isopropyl benzene	R	µg/Kg
					Methyl acetate	R	µg/Kg
					Methyl cyclohexane	R	µg/Kg
					Methyl tert butyl ether (MTBE)	R	µg/Kg
					Methylene chloride	R	µg/Kg
					Styrene	R	µg/Kg
					Toluene	R	µg/Kg
					trans-1,2-Dichloroethene	R	µg/Kg
					trans-1,3-Dichloropropene	R	µg/Kg
					Trichlorofluoromethane (CFC-11)	R	µg/Kg
					Trifluorotrichloroethane (CFC-113)	R	µg/Kg
					Vinyl chloride	R	µg/Kg
					Xylenes (total)	R	µg/Kg
							J

Table 8

Qualified Sample Results Due to Outlying Internal Standard (IS) Recoveries
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October - December 2018

Parameter	Sample ID	Internal Standard	IS Area Count (percent)	Control Limits (percent)	Analytes	Qualified Results	Units
VOCs	SS-38443-102918-JC-115	Fluorobenzene	41	50-200	trans-1,2-Dichloroethene	10 J	µg/Kg
		Chlorobenzene-d5	17		1,1,1-Trichloroethane	2.1 J	µg/Kg
		1,4-Dichlorobenzene-d4	4		2-Butanone (Methyl ethyl ketone) (MEK)	22 J	µg/Kg
					1,1-Dichloroethane	25 J	µg/Kg
					Toluene	3.1 J	µg/Kg
					Methyl cyclohexane	3.7 J	µg/Kg
					cis-1,2-Dichloroethene	32 J	µg/Kg
					Trichloroethene	35 J	µg/Kg
					Vinyl chloride	4.9 J	µg/Kg
					1,1,2,2-Tetrachloroethane	R	µg/Kg
					1,1,2-Trichloroethane	R	µg/Kg
					1,1-Dichloroethene	R	µg/Kg
					1,2,4-Trichlorobenzene	R	µg/Kg
					1,2-Dibromo-3-chloropropane (DBCP)	R	µg/Kg
					1,2-Dibromoethane (Ethylene dibromide)	R	µg/Kg
					1,2-Dichlorobenzene	R	µg/Kg
					1,2-Dichloroethane	R	µg/Kg
					1,2-Dichloropropane	R	µg/Kg
					1,3-Dichlorobenzene	R	µg/Kg
					1,4-Dichlorobenzene	R	µg/Kg
					2-Hexanone	R	µg/Kg
					4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	R	µg/Kg
					Acetone	R	µg/Kg
					Benzene	R	µg/Kg
					Bromodichloromethane	R	µg/Kg
					Bromoform	R	µg/Kg
					Bromomethane (Methyl bromide)	R	µg/Kg
					Carbon disulfide	R	µg/Kg
					Carbon tetrachloride	R	µg/Kg
					Chlorobenzene	R	µg/Kg
					Chloroethane	R	µg/Kg
					Chloroform (Trichloromethane)	R	µg/Kg
					Chloromethane (Methyl chloride)	R	µg/Kg
					cis-1,3-Dichloropropene	R	µg/Kg
					Cyclohexane	R	µg/Kg
					Dibromochloromethane	R	µg/Kg
					Dichlorodifluoromethane (CFC-12)	R	µg/Kg
					Ethylbenzene	R	µg/Kg
					Isopropyl benzene	R	µg/Kg

Table 8

Qualified Sample Results Due to Outlying Internal Standard (IS) Recoveries
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October - December 2018

Parameter	Sample ID	Internal Standard	IS Area Count (percent)	Control Limits (percent)	Analytes	Qualified Results	Units
VOCs	SS-38443-102918-JC-115	Fluorobenzene	41	50-200	Methyl acetate	R	µg/Kg
		Chlorobenzene-d5	17		Methyl tert butyl ether (MTBE)	R	µg/Kg
		1,4-Dichlorobenzene-d4	4		Methylene chloride	R	µg/Kg
					Styrene	R	µg/Kg
					Tetrachloroethene	R	µg/Kg
					trans-1,3-Dichloropropene	R	µg/Kg
					Trichlorofluoromethane (CFC-11)	R	µg/Kg
					Trifluorotrichloroethane (CFC-113)	R	µg/Kg
					Xylenes (total)	R	µg/Kg
VOCs	SS-38443-102918-JC-137	1,4-Dichlorobenzene-d4	38	50-200	1,1,2,2-Tetrachloroethane	R	µg/Kg
					1,2,4-Trichlorobenzene	R	µg/Kg
					1,2-Dibromo-3-chloropropane (DBCP)	R	µg/Kg
					1,2-Dichlorobenzene	R	µg/Kg
					1,3-Dichlorobenzene	R	µg/Kg
					1,4-Dichlorobenzene	R	µg/Kg
VOCs	SS-38443-102918-JC-133	Fluorobenzene	43	50-200	Tetrachloroethene	1.2 J	µg/Kg
		Chlorobenzene-d5	24		2-Butanone (Methyl ethyl ketone) (MEK)	18 J	µg/Kg
		1,4-Dichlorobenzene-d4	7		Trichloroethene	3.7 J	µg/Kg
					1,1,1-Trichloroethane	R	µg/Kg
					1,1,2,2-Tetrachloroethane	R	µg/Kg
					1,1,2-Trichloroethane	R	µg/Kg
					1,1-Dichloroethane	R	µg/Kg
					1,1-Dichloroethene	R	µg/Kg
					1,2,4-Trichlorobenzene	R	µg/Kg
					1,2-Dibromo-3-chloropropane (DBCP)	R	µg/Kg
					1,2-Dibromoethane (Ethylene dibromide)	R	µg/Kg
					1,2-Dichlorobenzene	R	µg/Kg
					1,2-Dichloroethane	R	µg/Kg
					1,2-Dichloropropane	R	µg/Kg
					1,3-Dichlorobenzene	R	µg/Kg
					1,4-Dichlorobenzene	R	µg/Kg
					2-Hexanone	R	µg/Kg
					4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	R	µg/Kg
					Acetone	R	µg/Kg
					Benzene	R	µg/Kg
					Bromodichloromethane	R	µg/Kg
					Bromoform	R	µg/Kg

Table 8

Qualified Sample Results Due to Outlying Internal Standard (IS) Recoveries
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October - December 2018

Parameter	Sample ID	Internal Standard	IS Area Count (percent)	Control Limits (percent)	Analytes	Qualified Results	Units
VOCs	SS-38443-102918-JC-133	Fluorobenzene	43	50-200	Bromomethane (Methyl bromide)	R	µg/Kg
		Chlorobenzene-d5	24		Carbon disulfide	R	µg/Kg
		1,4-Dichlorobenzene-d4	7		Carbon tetrachloride	R	µg/Kg
					Chlorobenzene	R	µg/Kg
					Chloroethane	R	µg/Kg
					Chloroform (Trichloromethane)	R	µg/Kg
					Chloromethane (Methyl chloride)	R	µg/Kg
					cis-1,2-Dichloroethene	R	µg/Kg
					cis-1,3-Dichloropropene	R	µg/Kg
					Cyclohexane	R	µg/Kg
					Dibromochloromethane	R	µg/Kg
					Dichlorodifluoromethane (CFC-12)	R	µg/Kg
					Ethylbenzene	R	µg/Kg
					Isopropyl benzene	R	µg/Kg
					Methyl acetate	R	µg/Kg
					Methyl cyclohexane	R	µg/Kg
					Methyl tert butyl ether (MTBE)	R	µg/Kg
					Methylene chloride	R	µg/Kg
					Styrene	R	µg/Kg
					Toluene	R	µg/Kg
					trans-1,2-Dichloroethene	R	µg/Kg
					trans-1,3-Dichloropropene	R	µg/Kg
					Trichlorofluoromethane (CFC-11)	R	µg/Kg
					Trifluorotrichloroethane (CFC-113)	R	µg/Kg
					Vinyl chloride	R	µg/Kg
					Xylenes (total)	R	µg/Kg
VOCs	SS-38443-103018-JC-046	1,4-Dichlorobenzene-d4	22	50-200	1,1,2,2-Tetrachloroethane	R	µg/Kg
					1,2,4-Trichlorobenzene	R	µg/Kg
					1,2-Dibromo-3-chloropropane (DBCP)	R	µg/Kg
					1,2-Dichlorobenzene	R	µg/Kg
					1,3-Dichlorobenzene	R	µg/Kg
					1,4-Dichlorobenzene	R	µg/Kg
VOCs	SS-38443-103018-JC-076	1,4-Dichlorobenzene-d4	32	50-200	1,1,2,2-Tetrachloroethane	R	µg/Kg
					1,2,4-Trichlorobenzene	R	µg/Kg
					1,2-Dibromo-3-chloropropane (DBCP)	R	µg/Kg
					1,2-Dichlorobenzene	R	µg/Kg
					1,3-Dichlorobenzene	R	µg/Kg
					1,4-Dichlorobenzene	R	µg/Kg

Table 8

Qualified Sample Results Due to Outlying Internal Standard (IS) Recoveries
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October - December 2018

Parameter	Sample ID	Internal Standard	IS Area Count (percent)	Control Limits (percent)	Analytes	Qualified Results	Units
VOCs	SS-38443-103018-JC-118	1,4-Dichlorobenzene-d4	18	50-200	1,2,4-Trichlorobenzene	R	µg/Kg
		Chlorobenzene-d5	46		1,2-Dibromo-3-chloropropane (DBCP)	R	µg/Kg
					1,2-Dichlorobenzene	R	µg/Kg
					1,3-Dichlorobenzene	R	µg/Kg
					1,4-Dichlorobenzene	R	µg/Kg
					1,1,2,2-Tetrachloroethane	2.0 UJ	µg/Kg
					1,1,2-Trichloroethane	1.6 UJ	µg/Kg
					1,2-Dibromoethane (Ethylene dibromide)	1.1 UJ	µg/Kg
					2-Hexanone	5.6 UJ	µg/Kg
					4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	5.1 UJ	µg/Kg
					Bromoform	3.3 UJ	µg/Kg
					Chlorobenzene	1.3 UJ	µg/Kg
					Dibromochloromethane	3.8 UJ	µg/Kg
					Ethylbenzene	1.4 UJ	µg/Kg
					Isopropyl benzene	1.1 UJ	µg/Kg
					Styrene	1.6 UJ	µg/Kg
					Tetrachloroethene	1.0 UJ	µg/Kg
					Toluene	1.1 UJ	µg/Kg
					trans-1,3-Dichloropropene	1.4 UJ	µg/Kg
					Xylenes (total)	2.2 UJ	µg/Kg
VOCs	SS-38443-103018-JC-061	1,4-Dichlorobenzene-d4	35	50-200	1,1,2,2-Tetrachloroethane	R	µg/Kg
					1,2,4-Trichlorobenzene	R	µg/Kg
					1,2-Dibromo-3-chloropropane (DBCP)	R	µg/Kg
					1,2-Dichlorobenzene	R	µg/Kg
					1,3-Dichlorobenzene	R	µg/Kg
					1,4-Dichlorobenzene	R	µg/Kg
VOCs	SS-38443-103018-JC-062	1,4-Dichlorobenzene-d4	30	50-200	1,1,2,2-Tetrachloroethane	R	µg/Kg
					1,2,4-Trichlorobenzene	R	µg/Kg
					1,2-Dibromo-3-chloropropane (DBCP)	R	µg/Kg
					1,2-Dichlorobenzene	R	µg/Kg
					1,3-Dichlorobenzene	R	µg/Kg
					1,4-Dichlorobenzene	R	µg/Kg

Table 8

Qualified Sample Results Due to Outlying Internal Standard (IS) Recoveries
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October - December 2018

Parameter	Sample ID	Internal Standard	IS Area Count (percent)	Control Limits (percent)	Analytes	Qualified Results	Units
VOCs	SS-38443-103118-JC-083	1,4-Dichlorobenzene-d4	18	50-200	1,1,2,2-Tetrachloroethane	R	µg/Kg
		Chlorobenzene-d5	37		1,1,2-Trichloroethane	R	µg/Kg
					1,2,4-Trichlorobenzene	R	µg/Kg
					1,2-Dibromo-3-chloropropane (DBCP)	R	µg/Kg
					1,2-Dibromoethane (Ethylene dibromide)	R	µg/Kg
					1,2-Dichlorobenzene	R	µg/Kg
					1,3-Dichlorobenzene	R	µg/Kg
					1,4-Dichlorobenzene	R	µg/Kg
					2-Hexanone	R	µg/Kg
					4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	R	µg/Kg
					Bromoform	R	µg/Kg
					Chlorobenzene	R	µg/Kg
					Dibromochloromethane	R	µg/Kg
					Ethylbenzene	R	µg/Kg
					Isopropyl benzene	R	µg/Kg
					Styrene	R	µg/Kg
					Tetrachloroethene	R	µg/Kg
					Toluene	R	µg/Kg
					trans-1,3-Dichloropropene	R	µg/Kg
					Xylenes (total)	R	µg/Kg
VOCs	SS-38443-103118-JC-080	1,4-Dichlorobenzene-d4	41	50-200	1,1,2,2-Tetrachloroethane	R	µg/Kg
					1,2,4-Trichlorobenzene	R	µg/Kg
					1,2-Dibromo-3-chloropropane (DBCP)	R	µg/Kg
					1,2-Dichlorobenzene	R	µg/Kg
					1,3-Dichlorobenzene	R	µg/Kg
					1,4-Dichlorobenzene	R	µg/Kg
VOCs	SS-38443-103118-JC-093	1,4-Dichlorobenzene-d4	38	50-200	1,1,2,2-Tetrachloroethane	R	µg/Kg
					1,2,4-Trichlorobenzene	R	µg/Kg
					1,2-Dibromo-3-chloropropane (DBCP)	R	µg/Kg
					1,2-Dichlorobenzene	R	µg/Kg
					1,3-Dichlorobenzene	R	µg/Kg
					1,4-Dichlorobenzene	R	µg/Kg

Table 8

Qualified Sample Results Due to Outlying Internal Standard (IS) Recoveries
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October - December 2018

Parameter	Sample ID	Internal Standard	IS Area Count (percent)	Control Limits (percent)	Analytes	Qualified Results	Units
VOCs	SS-38443-111918-JC-021	1,4-Dichlorobenzene-d4	42	50-200	1,1,2,2-Tetrachloroethane	R	µg/Kg
					1,2,4-Trichlorobenzene	R	µg/Kg
					1,2-Dibromo-3-chloropropane (DBCP)	R	µg/Kg
					1,2-Dichlorobenzene	R	µg/Kg
					1,3-Dichlorobenzene	R	µg/Kg
					1,4-Dichlorobenzene	R	µg/Kg
VOCs	S-38443-121418-JC-152	1,4-Dichlorobenzene-d4	47	50-200	1,1,2,2-Tetrachloroethane	1.5 UJ	µg/Kg
					1,2,4-Trichlorobenzene	0.61 UJ	µg/Kg
					1,2-Dibromo-3-chloropropane (DBCP)	3.8 UJ	µg/Kg
					1,2-Dichlorobenzene	1.2 UJ	µg/Kg
					1,3-Dichlorobenzene	0.87 UJ	µg/Kg
					1,4-Dichlorobenzene	0.94 UJ	µg/Kg
VOCs	SS-38443-122018-JC-008	1,4-Dichlorobenzene-d4	46	50-200	1,1,2,2-Tetrachloroethane	1.8 UJ	µg/Kg
					1,2,4-Trichlorobenzene	0.72 UJ	µg/Kg
					1,2-Dibromo-3-chloropropane (DBCP)	4.5 UJ	µg/Kg
					1,2-Dichlorobenzene	1.4 UJ	µg/Kg
					1,3-Dichlorobenzene	1.0 UJ	µg/Kg
					1,4-Dichlorobenzene	1.1 UJ	µg/Kg
VOCs	SS-38443-121018-JC-200	1,4-Dichlorobenzene-d4	39	50-200	1,1,2,2-Tetrachloroethane	R	µg/Kg
					1,2,4-Trichlorobenzene	R	µg/Kg
					1,2-Dibromo-3-chloropropane (DBCP)	R	µg/Kg
					1,2-Dichlorobenzene	R	µg/Kg
					1,3-Dichlorobenzene	R	µg/Kg
					1,4-Dichlorobenzene	R	µg/Kg
VOCs	SS-38443-121018-JC-205	1,4-Dichlorobenzene-d4	41	50-200	1,1,2,2-Tetrachloroethane	R	µg/Kg
					1,2,4-Trichlorobenzene	R	µg/Kg
					1,2-Dibromo-3-chloropropane (DBCP)	R	µg/Kg
					1,2-Dichlorobenzene	R	µg/Kg
					1,3-Dichlorobenzene	R	µg/Kg
					1,4-Dichlorobenzene	R	µg/Kg

Table 8

Qualified Sample Results Due to Outlying Internal Standard (IS) Recoveries
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October - December 2018

Parameter	Sample ID	Internal Standard	IS Area Count (percent)	Control Limits (percent)	Analytes	Qualified Results	Units
VOCs	SS-38443-121018-JC-208	1,4-Dichlorobenzene-d4	44	50-200	1,1,2,2-Tetrachloroethane	R	µg/Kg
					1,2,4-Trichlorobenzene	R	µg/Kg
					1,2-Dibromo-3-chloropropane (DBCP)	R	µg/Kg
					1,2-Dichlorobenzene	R	µg/Kg
					1,3-Dichlorobenzene	R	µg/Kg
					1,4-Dichlorobenzene	R	µg/Kg

Notes:

J - Estimated concentration
R - Rejected
UJ - Not detected; associated reporting limit is estimated
VOCs - Volatile Organic Compounds

Table 9

Qualified Sample Results Due to Outlying Laboratory Control Sample (LCS) Results
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October - December 2018

Parameter	Analyte	LCS Date (mm/dd/yyyy)	LCS % Recovery	Control Limits % Recovery	Associated Sample ID	Qualified Result	Units
VOCs	1,1-Dichloroethane	11/13/2018	61	72-122	SS-38443-103018-JC-054	11 UJ	µg/Kg
					SS-38443-103018-JC-056	13 UJ	µg/Kg
					SS-38443-103018-JC-065	21 UJ	µg/Kg
					SS-38443-103018-JC-117	10 UJ	µg/Kg
					SS-38443-103018-JC-057	21 UJ	µg/Kg
					SS-38443-103018-JC-060	25 UJ	µg/Kg
VOCs	1,1-Dichloroethene	11/13/2018	48	57-139	SS-38443-103018-JC-054	19 UJ	µg/Kg
					SS-38443-103018-JC-056	21 UJ	µg/Kg
					SS-38443-103018-JC-065	35 UJ	µg/Kg
					SS-38443-103018-JC-117	17 UJ	µg/Kg
					SS-38443-103018-JC-057	35 UJ	µg/Kg
					SS-38443-103018-JC-060	42 UJ	µg/Kg
VOCs	1,2-Dichloropropane	11/13/2018	65	78-122	SS-38443-103018-JC-054	10 UJ	µg/Kg
					SS-38443-103018-JC-056	11 UJ	µg/Kg
					SS-38443-103018-JC-065	19 UJ	µg/Kg
					SS-38443-103018-JC-117	9.3 UJ	µg/Kg
					SS-38443-103018-JC-057	19 UJ	µg/Kg
					SS-38443-103018-JC-060	22 UJ	µg/Kg
VOCs	Benzene	11/13/2018	66	74-123	SS-38443-103018-JC-054	10 UJ	µg/Kg
					SS-38443-103018-JC-056	11 UJ	µg/Kg
					SS-38443-103018-JC-065	19 UJ	µg/Kg
					SS-38443-103018-JC-117	9.3 UJ	µg/Kg
					SS-38443-103018-JC-057	19 UJ	µg/Kg
					SS-38443-103018-JC-059	190 J	µg/Kg
					SS-38443-103018-JC-060	22 UJ	µg/Kg

Table 9

Qualified Sample Results Due to Outlying Laboratory Control Sample (LCS) Results
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October - December 2018

Parameter	Analyte	LCS Date (mm/dd/yyyy)	LCS % Recovery	Control Limits % Recovery	Associated Sample ID	Qualified Result	Units
VOCs	Carbon disulfide	11/13/2018	18	29-153	SS-38443-103018-JC-054	140 UJ	µg/Kg
					SS-38443-103018-JC-056	150 UJ	µg/Kg
					SS-38443-103018-JC-065	250 UJ	µg/Kg
					SS-38443-103018-JC-117	130 UJ	µg/Kg
					SS-38443-103018-JC-057	250 UJ	µg/Kg
					SS-38443-103018-JC-060	300 UJ	µg/Kg
VOCs	Chloromethane (Methyl chloride)	11/13/2018	13	45-128	SS-38443-103018-JC-054	84 UJ	µg/Kg
					SS-38443-103018-JC-056	92 UJ	µg/Kg
					SS-38443-103018-JC-065	150 UJ	µg/Kg
					SS-38443-103018-JC-117	76 UJ	µg/Kg
					SS-38443-103018-JC-057	160 UJ	µg/Kg
					SS-38443-103018-JC-060	180 UJ	µg/Kg
VOCs	cis-1,2-Dichloroethene	11/13/2018	67	74-123	SS-38443-103018-JC-056	130 J	µg/Kg
					SS-38443-103018-JC-054	11 UJ	µg/Kg
					SS-38443-103018-JC-065	21 UJ	µg/Kg
					SS-38443-103018-JC-117	10 UJ	µg/Kg
					SS-38443-103018-JC-057	390 J	µg/Kg
					SS-38443-103018-JC-059	51 J	µg/Kg
					SS-38443-103018-JC-060	25 UJ	µg/Kg
VOCs	cis-1,3-Dichloropropene	11/13/2018	61	63-137	SS-38443-103018-JC-054	47 UJ	µg/Kg
					SS-38443-103018-JC-056	52 UJ	µg/Kg
					SS-38443-103018-JC-065	87 UJ	µg/Kg
					SS-38443-103018-JC-117	43 UJ	µg/Kg
					SS-38443-103018-JC-057	87 UJ	µg/Kg
					SS-38443-103018-JC-060	100 UJ	µg/Kg

Table 9

Qualified Sample Results Due to Outlying Laboratory Control Sample (LCS) Results
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October - December 2018

Parameter	Analyte	LCS Date (mm/dd/yyyy)	LCS % Recovery	Control Limits % Recovery	Associated Sample ID	Qualified Result		Units
VOCs	Cyclohexane	11/13/2018	42	64-130	SS-38443-103018-JC-054	210	UJ	µg/Kg
					SS-38443-103018-JC-056	230	UJ	µg/Kg
					SS-38443-103018-JC-065	1400	J	µg/Kg
					SS-38443-103018-JC-117	190	UJ	µg/Kg
					SS-38443-103018-JC-057	380	UJ	µg/Kg
					SS-38443-103018-JC-059	1400	J	µg/Kg
					SS-38443-103018-JC-060	450	UJ	µg/Kg
VOCs	Dichlorodifluoromethane (CFC-12)	11/13/2018	8	26-138	SS-38443-103018-JC-054		R	µg/Kg
					SS-38443-103018-JC-056		R	µg/Kg
					SS-38443-103018-JC-057		R	µg/Kg
					SS-38443-103018-JC-059		R	µg/Kg
					SS-38443-103018-JC-060		R	µg/Kg
					SS-38443-103018-JC-065		R	µg/Kg
					SS-38443-103018-JC-117		R	µg/Kg
VOCs	Methyl cyclohexane	11/13/2018	54	68-127	SS-38443-103018-JC-054	84	UJ	µg/Kg
					SS-38443-103018-JC-056	92	UJ	µg/Kg
					SS-38443-103018-JC-065	5900	J	µg/Kg
					SS-38443-103018-JC-117	76	UJ	µg/Kg
					SS-38443-103018-JC-057	160	UJ	µg/Kg
					SS-38443-103018-JC-059	11000	J	µg/Kg
					SS-38443-103018-JC-060	180	UJ	µg/Kg
VOCs	Toluene	11/13/2018	124	76-120	SS-38443-103018-JC-065	630	J	µg/Kg
					SS-38443-103018-JC-059	1100	J	µg/Kg

Table 9

Qualified Sample Results Due to Outlying Laboratory Control Sample (LCS) Results
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October - December 2018

Parameter	Analyte	LCS Date (mm/dd/yyyy)	LCS % Recovery	Control Limits % Recovery	Associated Sample ID	Qualified Result	Units
VOCs	trans-1,2-Dichloroethene	11/13/2018	59	71-133	SS-38443-103018-JC-054	19 UJ	µg/Kg
					SS-38443-103018-JC-056	21 UJ	µg/Kg
					SS-38443-103018-JC-065	35 UJ	µg/Kg
					SS-38443-103018-JC-117	17 UJ	µg/Kg
					SS-38443-103018-JC-057	66 J	µg/Kg
					SS-38443-103018-JC-060	42 UJ	µg/Kg
VOCs	Trichloroethene	11/13/2018	64	73-126	SS-38443-103018-JC-054	890 J	µg/Kg
					SS-38443-103018-JC-056	4000 J	µg/Kg
					SS-38443-103018-JC-065	30 UJ	µg/Kg
					SS-38443-103018-JC-117	1500 J	µg/Kg
					SS-38443-103018-JC-057	13000 J	µg/Kg
					SS-38443-103018-JC-060	270 J	µg/Kg
VOCs	Trichlorofluoromethane (CFC-11)	11/13/2018	42	47-146	SS-38443-103018-JC-054	58 UJ	µg/Kg
					SS-38443-103018-JC-056	64 UJ	µg/Kg
					SS-38443-103018-JC-065	110 UJ	µg/Kg
					SS-38443-103018-JC-117	53 UJ	µg/Kg
					SS-38443-103018-JC-057	110 UJ	µg/Kg
					SS-38443-103018-JC-060	130 UJ	µg/Kg
VOCs	Vinyl chloride	11/13/2018	23	52-130	SS-38443-103018-JC-054	13 UJ	µg/Kg
					SS-38443-103018-JC-056	14 UJ	µg/Kg
					SS-38443-103018-JC-065	23 UJ	µg/Kg
					SS-38443-103018-JC-117	12 UJ	µg/Kg
					SS-38443-103018-JC-057	24 UJ	µg/Kg
					SS-38443-103018-JC-060	28 UJ	µg/Kg

Table 9

Qualified Sample Results Due to Outlying Laboratory Control Sample (LCS) Results
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October - December 2018

Parameter	Analyte	LCS Date (mm/dd/yyyy)	LCS % Recovery	Control Limits % Recovery	Associated Sample ID	Qualified Result	Units
VOCs	1,1,2-Trichloroethane	11/14/2018	74	78-120	SS-38443-103018-JC-064	16 UJ	µg/Kg
	1,1-Dichloroethene		53	57-139		19 UJ	µg/Kg
	1,2-Dibromoethane		69	76-120		99 UJ	µg/Kg
	1,2-Dichlorobenzene		68	73-120		26 UJ	µg/Kg
	1,2-Dichloropropane		74	78-122		10 UJ	µg/Kg
	1,3-Dichlorobenzene		67	70-120		26 UJ	µg/Kg
	1,4-Dichlorobenzene		65	71-120		21 UJ	µg/Kg
	Benzene		70	74-123		10 UJ	µg/Kg
	Bromodichloromethane		61	63-132		35 UJ	µg/Kg
	Chlorobenzene		71	80-120		44 UJ	µg/Kg
	cis-1,2-Dichloroethene		73	74-123		28 J	µg/Kg
	Cyclohexane		59	64-130		200 UJ	µg/Kg
	Dibromochloromethane		52	58-131		150 UJ	µg/Kg
	Ethylbenzene		72	76-120		65 J	µg/Kg
	Isopropyl benzene		73	77-124		48 UJ	µg/Kg
	Methyl cyclohexane		61	68-127		350 J	µg/Kg
	Styrene		73	76-121		15 UJ	µg/Kg
	Tetrachloroethene		67	76-120		58 J	µg/Kg
	trans-1,2-Dichloroethene		70	71-133		19 UJ	µg/Kg
	trans-1,3-Dichloropropene		52	55-121		130 UJ	µg/Kg
	Trichloroethene		66	73-126		81 J	µg/Kg
	Xylenes (total)		77	79-120		510 J	µg/Kg

Notes:

J - Estimated concentration
LCS - Laboratory Control Sample
UJ - Not detected; associated reporting limit is estimated
VOCs - Volatile Organic Compounds
R - Rejected

Table 10

Qualified Sample Results Due to Outlying MS/MSD Results
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October - December 2018

Parameter	Sample ID	Analyte	MS % Recovery	MSD % Recovery	RPD (percent)	Control Limits % Recovery	Control Limits RPD	Qualified Result		Units
VOCs	SS-38443-103018-JC-064	1,1-Dichloroethene	31	31	15	36-150	40	19	UJ	µg/Kg
		Bromomethane (Methyl bromide)	0	0	NC	10-159	40		R	µg/Kg
		Carbon disulfide	0	0	NC	16-145	40		R	µg/Kg
		Chloromethane (Methyl chloride)	16	21	44	26-149	37	83	UJ	µg/Kg
		Dichlorodifluoromethane (CFC-12)	0	0	NC	15-150	31		R	µg/Kg
		trans-1,2-Dichloroethene	41	40	15	44-141	40	19	UJ	µg/Kg
		Trichlorofluoromethane (CFC-11)	32	31	14	38-149	39	58	UJ	µg/Kg
		Vinyl chloride	21	24	32	31-148	37	13	UJ	µg/Kg
SVOCs	SS-38443-102918-JC-130	2,4-Dinitrophenol	14	0	NC	10-120	40		R	µg/Kg
		4,6-Dinitro-2-methylphenol	11	8	37	10-120	40		R	µg/Kg
		Hexachlorocyclopentadiene	0	0	NC	10-120	40		R	µg/Kg
SVOCs	SS-38443-103018-JC-064	2,4-Dimethylphenol	21	25	16	28-120	35	43	UJ	µg/Kg
		3,3'-Dichlorobenzidine	4	0	NC	10-120	40		R	µg/Kg
		Hexachlorocyclopentadiene	0	0	NC	10-120	40		R	µg/Kg
SVOCs	SS-38443-111918-JC-021	2,4-Dinitrophenol	0	0	NC	10-120	40		R	µg/Kg
		2-Methylnaphthalene	3	52	22	31-120	33	1700	J	µg/Kg
		3,3'-Dichlorobenzidine	0	0	NC	10-120	40		R	µg/Kg
		3-Nitroaniline	0	0	NC	21-120	40		R	µg/Kg
		4,6-Dinitro-2-methylphenol	7	7	6	10-120	40		R	µg/Kg
		4-Chloroaniline	18	6	103	15-120	36		R	µg/Kg
		4-Nitroaniline	0	0	NC	23-120	40		R	µg/Kg
		bis(2-Ethylhexyl)phthalate (DEHP)	48	82	35	40-120	28	240	J	µg/Kg
		Hexachlorocyclopentadiene	0	0	NC	10-120	40		R	µg/Kg
SVOCs	SS-38443-112718-AS-045	Anthracene	135	69	53	42-120	32	170	J	µg/Kg
		Benzo(a)anthracene	298	81	81	35-120	40	600	J	µg/Kg
		Benzo(a)pyrene	231	74	69	33-120	40	580	J	µg/Kg
		Benzo(b)fluoranthene	296	85	68	26-120	40	920	J	µg/Kg
		Benzo(k)fluoranthene	153	77	45	33-120	40	420	J	µg/Kg
		Chrysene	227	76	63	33-120	40	670	J	µg/Kg
		Fluoranthene	208	62	42	26-121	40	1700	J	µg/Kg
		Hexachlorocyclopentadiene	0	0	NC	10-120	40		R	µg/Kg
		Indeno(1,2,3-cd)pyrene	80	37	42	24-120	40	330	J	µg/Kg
		Phenanthrene	149	29	52	28-120	40	1100	J	µg/Kg

Table 10

Qualified Sample Results Due to Outlying MS/MSD Results
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October - December 2018

Parameter	Sample ID	Analyte	MS % Recovery	MSD % Recovery	RPD (percent)	Control Limits % Recovery	Control Limits RPD	Qualified Result	Units
SVOCs	SS-38443-122018-JC-007	Benzo(a)pyrene	53	-61	89	33-120	40	1000 J	µg/Kg
		Chrysene	69	-33	69	33-120	40	1000 J	µg/Kg
		Di-n-butylphthalate (DBP)	110	78	30	45-120	28	110 J	µg/Kg
		Dibenz(a,h)anthracene	50	11	81	30-120	40	130 J	µg/Kg
		Pyrene	62	-59	68	28-120	40	1400 J	µg/Kg
		bis(2-Ethylhexyl)phthalate (DEHP)	100	31	81	40-120	28	160 J	µg/Kg
		Benzo(b)fluoranthene	56	-100	84	26-120	40	1600 J	µg/Kg
		Anthracene	86	41	51	42-120	32	210 J	µg/Kg
		Acenaphthene	89	59	39	36-120	28	33 J	µg/Kg
		Dibenzofuran	90	62	35	37-120	28	41 J	µg/Kg
		2-Methylnaphthalene	94	56	48	31-120	33	43 J	µg/Kg
		Fluorene	93	59	42	36-120	28	44 J	µg/Kg
		Indeno(1,2,3-cd)pyrene	41	-23	95	24-120	40	450 J	µg/Kg
		Acenaphthylene	92	63	36	35-120	26	46 J	µg/Kg
		Benzo(g,h,i)perylene	25	-30	98	16-120	40	460 J	µg/Kg
		Naphthalene	93	60	39	29-120	34	53 J	µg/Kg
		Benzo(k)fluoranthene	72	-9	75	33-120	40	600 J	µg/Kg
		Phenanthrene	67	12	45	28-120	40	630 J	µg/Kg
		Benzo(a)anthracene	75	-31	74	35-120	40	950 J	µg/Kg
		2,4-Dinitrophenol	0	0	NC	10-120	40	R	µg/Kg
		Di-n-octyl phthalate (DnOP)	96	14	150	35-120	33	33 UJ	µg/Kg
		Hexachlorobenzene	64	11	140	36-120	25	3.4 UJ	µg/Kg
		Hexachlorobutadiene	75	30	87	31-120	35	14 UJ	µg/Kg
		Hexachlorocyclopentadiene	0	0	NC	10-120	40	R	µg/Kg
SVOCs	SS-38443-121018-JC-208	Hexachlorocyclopentadiene	0	0	NC	10-120	40	R	µg/Kg
SVOCs	SS-38443-121018-JC-207	Pentachlorophenol	24	8	97	10-120	40	R	µg/Kg
		Hexachlorocyclopentadiene	0	0	NC	10-120	40	R	µg/Kg
									µg/Kg
SVOCs	SS-38443-121018-JC-220	Hexachlorocyclopentadiene	0	0	NC	10-120	40	R	µg/Kg
									µg/Kg
SVOCs	SS-38443-121018-JC-218	Hexachlorocyclopentadiene	0	0	NC	10-120	40	R	µg/Kg
Dioxin/Furan	SS-38443-102618-JC-034	1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	127	388	87	31-154	15	90 J	pg/g
		2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	112	95	17	75-125	15	1.3 J	pg/g

Table 10

Qualified Sample Results Due to Outlying MS/MSD Results
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October - December 2018

Parameter	Sample ID	Analyte	MS % Recovery	MSD % Recovery	RPD (percent)	Control Limits % Recovery	Control Limits RPD	Qualified Result	Units
Metals	SS-38443-111918-JC-021	Aluminum	135	184	10	75 - 125	20	4500 J	mg/kg
	SS-38443-111918-JC-023							3900 J	mg/kg
Metals	SS-38443-102618-JC-026	Antimony	58	52	9	75 - 125	20	1.6 J	mg/kg
	SS-38443-102618-JC-027							0.57 J	mg/kg
	SS-38443-102618-JC-028							0.21 J	mg/kg
	SS-38443-102618-JC-033							3.4 J	mg/kg
	SS-38443-102618-JC-034							1.4 J	mg/kg
Metals	SS-38443-103018-JC-046	Antimony	76	51	28	75 - 125	20	2.8 J	mg/kg
	SS-38443-103018-JC-054							14 J	mg/kg
	SS-38443-103018-JC-056							18 J	mg/kg
	SS-38443-103018-JC-057							0.68 J	mg/kg
	SS-38443-103018-JC-059							0.59 J	mg/kg
	SS-38443-103018-JC-060							2.1 J	mg/kg
	SS-38443-103018-JC-061							23 J	mg/kg
	SS-38443-103018-JC-063							0.19 J	mg/kg
	SS-38443-103018-JC-065							0.27 J	mg/kg
	SS-38443-103018-JC-066							0.35 J	mg/kg
	SS-38443-103018-JC-067							0.63 J	mg/kg
	SS-38443-103018-JC-068							0.18 J	mg/kg
	SS-38443-103018-JC-069							0.12 J	mg/kg
	SS-38443-103018-JC-070							0.19 J	mg/kg
	SS-38443-103018-JC-071							0.27 J	mg/kg
	SS-38443-103018-JC-073							0.19 J	mg/kg
	SS-38443-103018-JC-074							0.39 J	mg/kg
	SS-38443-103018-JC-076							0.23 J	mg/kg
Metals	SS-38443-103018-JC-062	Antimony	65	64	2	75 - 125	20	0.27 J	mg/kg
	SS-38443-103018-JC-064							0.24 J	mg/kg
	SS-38443-103018-JC-072							0.25 J	mg/kg
	SS-38443-103018-JC-075							2.4 J	mg/kg
	SS-38443-103018-JC-117							1400 J	mg/kg
	SS-38443-103018-JC-118							1.7 J	mg/kg

Table 10

Qualified Sample Results Due to Outlying MS/MSD Results
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October - December 2018

Parameter	Sample ID	Analyte	MS % Recovery	MSD % Recovery	RPD (percent)	Control Limits % Recovery	Control Limits RPD	Qualified Result	Units
Metals	SS-38443-110218-JC-047	Antimony	51	49	3	75 - 125	20	1.9 J	mg/kg
	SS-38443-110218-JC-099							0.24 J	mg/kg
	SS-38443-110218-JC-100							0.55 J	mg/kg
	SS-38443-110218-JC-101							0.21 J	mg/kg
	SS-38443-110218-JC-121							0.23 J	mg/kg
Metals	SS-38443-111918-JC-021	Antimony	-44	-37	4	75 - 125	20	2.2 J	mg/kg
	SS-38443-111918-JC-023							30 J	mg/kg
Metals	SS-38443-112718-AS-042	Antimony	53	40	26	75 - 125	20	0.19 J	mg/kg
	SS-38443-112718-AS-043							0.16 J	mg/kg
	SS-38443-112718-AS-044							0.18 J	mg/kg
	SS-38443-112718-AS-045							0.20 J	mg/kg
Metals	SS-38443-121018-JC-201	Antimony	39	39	2	75 - 125	20	0.19 J	mg/kg
	SS-38443-121018-JC-202							0.26 J	mg/kg
	SS-38443-121018-JC-203							0.26 J	mg/kg
	SS-38443-121018-JC-204							0.25 J	mg/kg
	SS-38443-121018-JC-205							0.27 J	mg/kg
	SS-38443-121018-JC-206							0.19 J	mg/kg
	SS-38443-121018-JC-207							0.31 J	mg/kg
	SS-38443-121018-JC-208							0.27 J	mg/kg
	SS-38443-121018-JC-218							0.21 J	mg/kg
	SS-38443-121018-JC-219							0.29 J	mg/kg
	SS-38443-121018-JC-220							0.31 J	mg/kg
	SS-38443-121018-JC-221							0.31 J	mg/kg
	SS-38443-121018-JC-222							0.31 J	mg/kg
	SS-38443-121018-JC-223							0.22 J	mg/kg
	SS-38443-121018-JC-224							0.29 J	mg/kg
	SS-38443-121018-JC-225							0.35 J	mg/kg
	SS-38443-121018-JC-199							0.31 J	mg/kg
	SS-38443-121018-JC-200							0.30 J	mg/kg
Metals	SS-38443-112718-AS-042	Barium	197	114	40	75 - 125	20	66 J	mg/kg
	SS-38443-112718-AS-043							57 J	mg/kg
	SS-38443-112718-AS-044							44 J	mg/kg
	SS-38443-112718-AS-045							45 J	mg/kg

Table 10

Qualified Sample Results Due to Outlying MS/MSD Results
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October - December 2018

Parameter	Sample ID	Analyte	MS % Recovery	MSD % Recovery	RPD (percent)	Control Limits % Recovery	Control Limits RPD	Qualified Result	Units
Metals	SS-38443-111918-JC-021	Barium	7	3	1	75 - 125	20	150 J	mg/kg
	SS-38443-111918-JC-023							270 J	mg/kg
Metals	SS-38443-112718-AS-042	Beryllium	77	126	48	75 - 125	20	0.45 J	mg/kg
	SS-38443-112718-AS-043							0.32 J	mg/kg
	SS-38443-112718-AS-044							0.26 J	mg/kg
	SS-38443-112718-AS-045							0.39 J	mg/kg
Metals	SS-38443-103018-JC-062	Calcium	67	23	25	75 - 125	20	110000 J	mg/kg
	SS-38443-103018-JC-064							1400 J	mg/kg
	SS-38443-103018-JC-072							100000 J	mg/kg
	SS-38443-103018-JC-075							36000 J	mg/kg
Metals	SS-38443-111918-JC-021	Copper	125	17	33	75 - 125	20	320 J	mg/kg
	SS-38443-111918-JC-023							320 J	mg/kg
Metals	SS-38443-112718-AS-042	Copper	141	95	36	75 - 125	20	30 J	mg/kg
	SS-38443-112718-AS-043							14 J	mg/kg
	SS-38443-112718-AS-044							16 J	mg/kg
	SS-38443-112718-AS-045							17 J	mg/kg
Metals	SS-38443-103018-JC-046	Lead	68	10	16	75 - 125	20	340 J	mg/kg
	SS-38443-103018-JC-054							710 J	mg/kg
	SS-38443-103018-JC-056							1900 J	mg/kg
	SS-38443-103018-JC-057							38 J	mg/kg
	SS-38443-103018-JC-059							190 J	mg/kg
	SS-38443-103018-JC-060							220 J	mg/kg
	SS-38443-103018-JC-061							3400 J	mg/kg
	SS-38443-103018-JC-063							35 J	mg/kg
	SS-38443-103018-JC-065							8.1 J	mg/kg
	SS-38443-103018-JC-066							58 J	mg/kg
	SS-38443-103018-JC-067							42 J	mg/kg
	SS-38443-103018-JC-068							8.1 J	mg/kg
	SS-38443-103018-JC-069							8.0 J	mg/kg
	SS-38443-103018-JC-070							35 J	mg/kg
	SS-38443-103018-JC-071							17 J	mg/kg
	SS-38443-103018-JC-073							19 J	mg/kg
	SS-38443-103018-JC-074							41 J	mg/kg

Table 10

Qualified Sample Results Due to Outlying MS/MSD Results
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October - December 2018

Parameter	Sample ID	Analyte	MS % Recovery	MSD % Recovery	RPD (percent)	Control Limits % Recovery	Control Limits RPD	Qualified Result	Units
Metals	SS-38443-103018-JC-076	Lead	68	10	16	75 - 125	20	51 J	mg/kg
	SS-38443-103018-JC-117							26000 J	mg/kg
	SS-38443-103018-JC-118							34 J	mg/kg
Metals	SS-38443-110218-JC-047	Lead	94	165	48	75 - 125	20	510 J	mg/kg
	SS-38443-110218-JC-099							19 J	mg/kg
	SS-38443-110218-JC-100							91 J	mg/kg
	SS-38443-110218-JC-101							27 J	mg/kg
	SS-38443-110218-JC-121							17 J	mg/kg
Metals	SS-38443-111918-JC-021	Lead	-45	22	25	75 - 125	20	210 J	mg/kg
	SS-38443-111918-JC-023							360 J	mg/kg
Metals	SS-38443-112718-AS-042	Lead	834	112	145	75 - 125	20	25 J	mg/kg
	SS-38443-112718-AS-043							30 J	mg/kg
	SS-38443-112718-AS-044							39 J	mg/kg
	SS-38443-112718-AS-045							19 J	mg/kg
Metals	SS-38443-103018-JC-062	Magnesium	66	69	2	75 - 125	20	46000 J	mg/kg
	SS-38443-103018-JC-064							720 J	mg/kg
	SS-38443-103018-JC-072							39000 J	mg/kg
	SS-38443-103018-JC-075							15000 J	mg/kg
Metals	SS-38443-110218-JC-047	Manganese	15	39	6	75 - 125	20	300 J	mg/kg
	SS-38443-110218-JC-099							400 J	mg/kg
	SS-38443-110218-JC-100							540 J	mg/kg
	SS-38443-110218-JC-101							950 J	mg/kg
	SS-38443-110218-JC-121							430 J	mg/kg
Metals	SS-38443-112718-AS-042	Manganese	190	86	26	75 - 125	20	530 J	mg/kg
	SS-38443-112718-AS-043							300 J	mg/kg
	SS-38443-112718-AS-044							320 J	mg/kg
	SS-38443-112718-AS-045							390 J	mg/kg
Metals	SS-38443-111918-JC-023	Mercury	67	77	7	80 - 120	20	0.12 J	mg/kg
	SS-38443-111918-JC-021							0.064 J	mg/kg

Table 10

Qualified Sample Results Due to Outlying MS/MSD Results
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October - December 2018

Parameter	Sample ID	Analyte	MS % Recovery	MSD % Recovery	RPD (percent)	Control Limits % Recovery	Control Limits RPD	Qualified Result	Units
Metals	SS-38443-111918-JC-021	Nickel	-10	-12	2	75 - 125	20	36 J	mg/kg
	SS-38443-111918-JC-023							170 J	mg/kg
Metals	SS-38443-112718-AS-042	Nickel	121	87	30	75 - 125	20	15 J	mg/kg
	SS-38443-112718-AS-043							11 J	mg/kg
	SS-38443-112718-AS-044							7.7 J	mg/kg
	SS-38443-112718-AS-045							16 J	mg/kg
Metals	SS-38443-112718-AS-042	Potassium	128	133	3	75 - 125	20	740 J	mg/kg
	SS-38443-112718-AS-043							720 J	mg/kg
	SS-38443-112718-AS-044							450 J	mg/kg
	SS-38443-112718-AS-045							660 J	mg/kg
Metals	SS-38443-122018-JC-004	Potassium	141	130	5	75 - 125	20	820 J	mg/kg
	SS-38443-122018-JC-005							800 J	mg/kg
	SS-38443-122018-JC-006							1500 J	mg/kg
	SS-38443-122018-JC-007							680 J	mg/kg
	SS-38443-122018-JC-008							1500 J	mg/kg
	SS-38443-122018-JC-009							1300 J	mg/kg
	SS-38443-122018-JC-010							1200 J	mg/kg
	SS-38443-122018-JC-011							1200 J	mg/kg
	SS-38443-122018-JC-226							1200 J	mg/kg
Metals	SS-38443-103018-JC-046	Zinc	122	-3	39	75 - 125	20	270 J	mg/kg
	SS-38443-103018-JC-054							700 J	mg/kg
	SS-38443-103018-JC-056							3100 J	mg/kg
	SS-38443-103018-JC-057							87 J	mg/kg
	SS-38443-103018-JC-059							36 J	mg/kg
	SS-38443-103018-JC-060							120 J	mg/kg
	SS-38443-103018-JC-061							3400 J	mg/kg
	SS-38443-103018-JC-063							28 J	mg/kg
	SS-38443-103018-JC-065							39 J	mg/kg
	SS-38443-103018-JC-066							99 J	mg/kg
	SS-38443-103018-JC-067							89 J	mg/kg
	SS-38443-103018-JC-068							35 J	mg/kg
	SS-38443-103018-JC-069							15 J	mg/kg
	SS-38443-103018-JC-070							52 J	mg/kg
	SS-38443-103018-JC-071							74 J	mg/kg

Table 10

Qualified Sample Results Due to Outlying MS/MSD Results
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October - December 2018

Parameter	Sample ID	Analyte	MS % Recovery	MSD % Recovery	RPD (percent)	Control Limits % Recovery	Control Limits RPD	Qualified Result	Units
Metals	SS-38443-103018-JC-073	Zinc	122	-3	39	75 - 125	20	38 J	mg/kg
	SS-38443-103018-JC-074							88 J	mg/kg
	SS-38443-103018-JC-076							93 J	mg/kg
	SS-38443-103018-JC-117							1600 J	mg/kg
	SS-38443-103018-JC-118							48 J	mg/kg
Metals	SS-38443-103018-JC-062	Zinc	84	37	23	75 - 125	20	80 J	mg/kg
	SS-38443-103018-JC-064							150 J	mg/kg
	SS-38443-103018-JC-072							100 J	mg/kg
	SS-38443-103018-JC-075							100 J	mg/kg
Metals	SS-38443-111918-JC-021	Zinc	5	45	11	75 - 125	20	810 J	mg/kg
	SS-38443-111918-JC-023							430 J	mg/kg
Metals	SS-38443-112718-AS-042	Zinc	161	110	28	75 - 125	20	58 J	mg/kg
	SS-38443-112718-AS-043							57 J	mg/kg
	SS-38443-112718-AS-044							48 J	mg/kg
	SS-38443-112718-AS-045							46 J	mg/kg
General Chemistry	SS-38443-122018-JC-004	Cyanide (total)	56	-15	118	24 - 140	40	R	mg/kg
	SS-38443-122018-JC-005							8.7 J	mg/kg
	SS-38443-122018-JC-006							0.88 J	mg/kg
	SS-38443-122018-JC-007							0.49 J	mg/kg
	SS-38443-122018-JC-008							0.29 J	mg/kg
	SS-38443-122018-JC-009							R	mg/kg
	SS-38443-122018-JC-010							R	mg/kg
	SS-38443-122018-JC-011							R	mg/kg
	SS-38443-122018-JC-226							4.9 J	mg/kg

Notes:

J - Estimated concentration
MS - Matrix Spike
MSD - Matrix Spike Duplicate
R - Rejected
RPD - Relative Percent Difference
SVOCs - Semi-volatile Organic Compounds
UJ - Not detected; associated reporting limit is estimated
VOCs - Volatile Organic Compounds

Table 11

Qualified Sample Data Due to Outlying ICP Serial Dilution Results
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October - December 2018

Parameter	Serial Dilution Sample ID	Analyte	%D	Associated Sample ID	Qualified Result	Units
Metals	SS-38443-111918-JC-023	Lead - coarse fraction	25	SS-38443-111918-JC-023	240 J	mg/Kg
				SS-38443-110218-JC-100	23 J	mg/Kg
				SS-38443-112018-JC-015	17 J	mg/Kg
				SS-38443-122018-JC-006	4500 J	mg/Kg
				SS-38443-122018-JC-008	320 J	mg/Kg
				SS-38443-122018-JC-010	20 J	mg/Kg
				SS-38443-103118-JC-081	44 J	mg/Kg
				SS-38443-103118-JC-079	52 J	mg/Kg
Metals	SS-38443-122018-JC-007	Copper	13	SS-38443-122018-JC-004	40 J	mg/kg
				SS-38443-122018-JC-009	53 J	mg/kg
				SS-38443-122018-JC-010	19 J	mg/kg
				SS-38443-122018-JC-011	25 J	mg/kg
				SS-38443-122018-JC-005	600 J	mg/kg
				SS-38443-122018-JC-226	770 J	mg/kg
				SS-38443-122018-JC-006	6000 J	mg/kg
				SS-38443-122018-JC-007	930 J	mg/kg
				SS-38443-122018-JC-008	310 J	mg/kg
Metals	SS-38443-122018-JC-007	Zinc	11	SS-38443-122018-JC-004	110 J	mg/kg
				SS-38443-122018-JC-009	110 J	mg/kg
				SS-38443-122018-JC-010	59 J	mg/kg
				SS-38443-122018-JC-011	79 J	mg/kg
				SS-38443-122018-JC-005	370 J	mg/kg
				SS-38443-122018-JC-226	560 J	mg/kg
				SS-38443-122018-JC-006	4500 J	mg/kg
				SS-38443-122018-JC-007	780 J	mg/kg
				SS-38443-122018-JC-008	280 J	mg/kg

Notes:

%D - Percent Difference
ICP - Inductively Coupled Plasma
J - Estimated concentration

Table 12

Qualified Sample Data Due to Concentrations in the Rinse Blank Samples
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October - December 2018

Parameter	Rinse Blank ID	Blank Date (dd/mm/yyyy)	Analyte	Blank Result	Associated Sample ID	Original Result	Qualified Result	Units
Metals	RB-38443-103018-JC-002	10/30/2018	Thallium	0.024 J	SS-38443-103018-JC-063	0.052 J	0.052 U	mg/kg
					SS-38443-103018-JC-074	0.095 J	0.095 U	mg/kg
					SS-38443-103018-JC-059	0.067 J	0.067 U	mg/kg
					SS-38443-103018-JC-064	0.086 J	0.086 U	mg/kg
Metals	RB-38443-103018-JC-002	10/30/2018	Beryllium	0.036 J	SS-38443-103018-JC-069	0.087 J	0.087 U	mg/kg
Metals	RB-38443-103018-JC-002	10/30/2018	Cadmium	0.05 J	SS-38443-103018-JC-069	0.098 J	0.098 U	mg/kg
					SS-38443-103018-JC-065	0.090 J	0.090 U	mg/kg
					SS-38443-103018-JC-118	0.091 J	0.091 U	mg/kg
					SS-38443-103018-JC-057	0.16 J	0.16 U	mg/kg
Metals	RB-38443-103018-JC-002	10/30/2018	Sodium	34 J	SS-38443-120718-JC-216	61 J	61 U	mg/kg

Notes:

U - Not detected at the associated reporting limit
J - Estimated concentration

Table 13

Qualified Sample Data Due to Variability in Field Duplicate Results
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October - December 2018

Parameter	Analyte	RPD	Diff	RL	Sample ID	Qualified Result	Field Duplicate Sample ID	Qualified Result	Units
VOCs	Trichloroethene	135	145	45	SS-38443-102918-JC-055	180 J	SS-38443-102918-JC-115	35 J	µg/Kg
VOCs	2-Butanone (Methyl ethyl ketone) (MEK)	195	375	2300	SS-38443-103018-JC-065	380 J	SS-38443-103018-JC-118	4.9 UJ	µg/Kg
	Acetone	185	741	2300		770 J		29 UJ	µg/Kg
	Cyclohexane	199	1398	1200		1400 J		1.9 UJ	µg/Kg
	Isopropyl benzene	197	149	590		150 J		1.1 UJ	µg/Kg
	Methyl cyclohexane	200	5898	1200		5900 J		1.7 UJ	µg/Kg
	Toluene	199	629	590		630 J		1.1 UJ	µg/Kg
	Xylenes (total)	200	2298	1200		2300 J		2.2 UJ	µg/Kg
SVOCs	Fluorene	125	40	18	SS-38443-102918-JC-114	52 J	SS-38443-102918-JC-130	12 J	µg/Kg
SVOCs	2-Methylnaphthalene	190	127	25	SS-38443-102918-JC-115	130 J	SS-38443-102918-JC-055	3.3 UJ	µg/Kg
	Benzo(a)anthracene	172	69	25		75 J		5.7 UJ	µg/Kg
	Benzo(a)pyrene	119	47	25		63 J		16 UJ	µg/Kg
	Benzo(b)fluoranthene	155	76	25		87 J		11 UJ	µg/Kg
	Benzo(g,h,i)perylene	109	29	25		41 J		12 UJ	µg/Kg
	Chrysene	189	84	25		86 J		2.5 UJ	µg/Kg
	Fluoranthene	180	133	25		140 J		7.4 UJ	µg/Kg
	Indeno(1,2,3-cd)pyrene	111	30	25		42 J		12 UJ	µg/Kg
	Naphthalene	184	92	25		96 J		4.0 UJ	µg/Kg
	Phenanthrene	190	136	25		140 J		3.7 UJ	µg/Kg
	Pyrene	187	106	25		110 J		3.6 UJ	µg/Kg
SVOCs	2-Methylnaphthalene	122	2430	18	SS-38443-103018-JC-065	770 J	SS-38443-103018-JC-118	3200 J	µg/Kg
	Acenaphthene	187	92	18		3.3 UJ		95 J	µg/Kg
	Anthracene	132	159	18		41 J		200 J	µg/Kg
	Benzaldehyde	130	260	120		70 J		330 J	µg/Kg
	Benzo(a)anthracene	125	470	18		140 J		610 J	µg/Kg
	Benzo(a)pyrene	127	256	18		74 J		330 J	µg/Kg
	Benzo(b)fluoranthene	128	500	18		140 J		640 J	µg/Kg
	Benzo(g,h,i)perylene	122	242	18		78 J		320 J	µg/Kg
	Benzo(k)fluoranthene	100	56	18		28 J		84 J	µg/Kg
	Biphenyl (1,1-Biphenyl)	119	127	58		43 J		170 J	µg/Kg
	Carbazole	111	100	58		40 J		140 J	µg/Kg
	Chrysene	124	560	18		170 J		730 J	µg/Kg
	Dibenz(a,h)anthracene	114	64	18		24 J		88 J	µg/Kg
	Dibenzofuran	125	760	58		230 J		990 J	µg/Kg
	Fluoranthene	128	460	18		130 J		590 J	µg/Kg
	Fluorene	118	57	18		20 J		77 J	µg/Kg
	Indeno(1,2,3-cd)pyrene	122	91	18		29 J		120 J	µg/Kg
	Naphthalene	123	1140	18		360 J		1500 J	µg/Kg
	Phenanthrene	118	1710	18		590 J		2300 J	µg/Kg
	Pyrene	126	510	18		150 J		660 J	µg/Kg

Table 13

Qualified Sample Data Due to Variability in Field Duplicate Results
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October - December 2018

Parameter	Analyte	RPD	Diff	RL	Sample ID	Qualified Result	Field Duplicate Sample ID	Qualified Result	Units
SVOCs	2-Methylnaphthalene	133	112	17	SS-38443-103018-JC-054	140 J	SS-38443-103018-JC-117	28 J	µg/Kg
	Dibenz(a,h)anthracene	66	48	17		49 J		97 J	µg/Kg
	Naphthalene	112	79	17		110 J		31 J	µg/Kg
SVOCs	2-Methylnaphthalene	156	29.8	18	SS-38443-120718-JC-211	34 J	SS-38443-120718-JC-217	4.2 J	µg/Kg
	Fluorene	101	6.7	18		10 J		3.3 UJ	µg/Kg
SVOCs	Anthracene	95	200	36	SS-38443-122018-JC-005	310 J	SS-38443-122018-JC-226	110 J	µg/Kg
	Benzo(a)anthracene	109	1060	36		1500 J		440 J	µg/Kg
	Benzo(g,h,i)perylene	117	450	36		610 J		160 J	µg/Kg
	Benzo(k)fluoranthene	115	600	36		820 J		220 J	µg/Kg
	Chrysene	101	940	36		1400 J		460 J	µg/Kg
	Dibenz(a,h)anthracene	123	152	36		200 J		48 J	µg/Kg
	Fluoranthene	105	2200	36		3200 J		1000 J	µg/Kg
	Indeno(1,2,3-cd)pyrene	114	420	36		580 J		160 J	µg/Kg
PCBs	Aroclor-1254 (PCB-1254)	106	1040	64	SS-38443-121018-JC-225	460 J	SS-38443-121018-JC-199	1500 J	µg/Kg
Metals	Antimony	196	1386	0.43	SS-38443-103018-JC-054	14 J	SS-38443-103018-JC-117	1400 J	mg/kg
	Arsenic	151	50.8	1.1		8.2 J		59 J	mg/kg
	Copper	139	1310	0.43		290 J		1600 J	mg/kg
	Lead	189	25290	0.21		710 J		26000 J	mg/kg
	Magnesium	108	14700	210		21000 J		6300 J	mg/kg
	Nickel	159	186	0.43		24 J		210 J	mg/kg
	Silver	172	6.28	0.21		0.52 J		6.8 J	mg/kg
Metals	Lead	140	37.9	0.19	SS-38443-103018-JC-065	8.1 J	SS-38443-103018-JC-118	46 J	mg/kg
	Arsenic	193	550.1	0.93		9.9 J		560 J	mg/kg
	Barium	196	148.5	0.93		150 J		1.5 J	mg/kg
	Beryllium	195	33.53	0.19		0.47 J		34 J	mg/kg
	Magnesium	196	31670	190		32000 J		330 J	mg/kg
	Manganese	174	223	0.93		240 J		17 J	mg/kg
	Selenium	164	4.33	0.93		0.47 J		4.8 J	mg/kg
	Vanadium	116	36	0.93		13 J		49 J	mg/kg

Table 13

Qualified Sample Data Due to Variability in Field Duplicate Results
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October - December 2018

Parameter	Analyte	RPD	Diff	RL	Sample ID	Qualified Result	Field Duplicate Sample ID	Qualified Result	Units
Metals	Lead	137	74	0.24	SS-38443-110218-JC-100	91 J	SS-38443-110218-JC-121	17 J	mg/kg
Metals	Antimony	131	9.5	0.43	SS-38443-122018-JC-005	2.5 J	SS-38443-122018-JC-226	12 J	mg/kg
	Cobalt	153	58	0.21		9.0 J		67 J	mg/kg
	Nickel	111	107	0.43		43 J		150 J	mg/kg
	Sodium	174	1860	210		140 J		2000 J	mg/kg

Notes:

Diff - Difference (<2XRL for soils)
J - Estimated concentration
PCBs - Polychlorinated Biphenyls
RL - Reporting Limit
RPD - Relative Percent Difference
SVOCs - Semi-volatile Organic Compounds
UJ - Not detected; associated reporting limit is estimated
VOCs - Volatile Organic Compounds

Table 14

Qualified Sample Data Due to Low Percent Solid Content
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October - December 2018

Parameter	Associated Sample ID	Total Solids (percent)	Analyte	Qualified Result	Units
ALL	SS-38443-102618-JC-034	48.9	All Analytes	J/UJ	

Notes:

J - Estimated concentration
UJ - Not detected; associated reporting limit is estimated

Table 15

Qualified Sample Data Due to Differences in Dual Column Results
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October - December 2018

Parameter	Analyte	RPD (percent)	Criteria (percent)	Associated Sample ID	Result	Units
PCBs	Aroclor-1254 (PCB-1254)	78	40	SS-38443-103018-JC-046	54 J	µg/Kg
PCBs	Aroclor-1254 (PCB-1254)	46	40	SS-38443-103118-JC-084	760 J	µg/Kg
Pesticides	4,4'-DDT	41	40	SS-38443-102918-JC-048	51 J	µg/Kg
Pesticides	4,4'-DDD	129	40	SS-38443-102918-JC-051	9.5 NJ	µg/Kg
Pesticides	4,4'-DDE	96	40	SS-38443-102918-JC-053	9.4 NJ	µg/Kg
Pesticides	4,4'-DDD	69	40	SS-38443-102918-JC-055	43 J	µg/Kg
Pesticides	4,4'-DDD	127	40	SS-38443-102918-JC-114	2.0 NJ	µg/Kg
	4,4'-DDT	58	40		6.2 J	µg/Kg
Pesticides	4,4'-DDD	86	40	SS-38443-102918-JC-115	34 NJ	µg/Kg
	4,4'-DDT	48	40		34 J	µg/Kg
Pesticides	Endrin aldehyde	101	40	SS-38443-102918-JC-130	2.1 NJ	µg/Kg
Pesticides	4,4'-DDE	103	40	SS-38443-102918-JC-136	20 NJ	µg/Kg
	Dieldrin	90	40		14 NJ	µg/Kg
	Heptachlor epoxide	156	40		9.6 NJ	µg/Kg
Pesticides	4,4'-DDT	63	40	SS-38443-103018-JC-057	40 J	µg/Kg
Pesticides	Endrin aldehyde	63	40	SS-38443-103018-JC-059	280 J	µg/Kg

Table 15

Qualified Sample Data Due to Differences in Dual Column Results
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October - December 2018

Parameter	Analyte	RPD (percent)	Criteria (percent)	Associated Sample ID	Result		Units
Pesticides	Heptachlor epoxide	115	40	SS-38443-103018-JC-060	75	NJ	µg/Kg
Pesticides	beta-BHC	132	40	SS-38443-103018-JC-065	20	NJ	µg/Kg
Pesticides	beta-BHC	130	40	SS-38443-103018-JC-068	8.1	NJ	µg/Kg
Pesticides	4,4'-DDT	83	40	SS-38443-103018-JC-117	3.5	NJ	µg/Kg
Pesticides	4,4'-DDT	76	40	SS-38443-112018-JC-015	3.5	J	µg/Kg
Pesticides	Endosulfan I	99	40	SS-38443-112018-JC-040	2.1	NJ	µg/Kg
Pesticides	4,4'-DDT	110	40	SS-38443-112718-AS-044	1.2	NJ	µg/Kg
Pesticides	Dieldrin	68	40	SS-38443-122018-JC-005	12	J	µg/Kg
	Endrin aldehyde	152	40		1.7	NJ	µg/Kg
Pesticides	Dieldrin	77	40	SS-38443-122018-JC-226	12	J	µg/Kg
	gamma-Chlordane	76	40		11	J	µg/Kg
Pesticides	Dieldrin	92	40	SS-38443-122018-JC-006	11	NJ	µg/Kg
	Heptachlor epoxide	128	40		3.5	NJ	µg/Kg
Pesticides	4,4'-DDT	86	40	SS-38443-122018-JC-007	9.3	NJ	µg/Kg
	Dieldrin	66	40		7.2	J	µg/Kg
	4,4'-DDE	46	40		4.8	J	µg/Kg
	gamma-Chlordane	100	40		1.4	NJ	µg/Kg
	Heptachlor epoxide	60	40		2.1	J	µg/Kg

Table 15

Qualified Sample Data Due to Differences in Dual Column Results
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October - December 2018

Parameter	Analyte	RPD (percent)	Criteria (percent)	Associated Sample ID	Result	Units
Pesticides	4,4'-DDE	68	40	SS-38443-122018-JC-009	2.0 J	µg/Kg
Pesticides	4,4'-DDT	80	40	SS-38443-122018-JC-011	3.1 J	µg/Kg
Pesticides	4,4'-DDT	98	40	SS-38443-121018-JC-204	2.7 NJ	µg/Kg
	4,4'-DDD	112	40		4.1 NJ	µg/Kg
Pesticides	4,4'-DDT	88	40	SS-38443-121018-JC-203	3.6 NJ	µg/Kg
	4,4'-DDE	45	40		4.5 J	µg/Kg
Pesticides	Endrin aldehyde	84	40	SS-38443-121018-JC-220	2.0 NJ	µg/Kg
Pesticides	4,4'-DDT	63	40	SS-38443-121018-JC-201	2.0 J	µg/Kg
Pesticides	4,4'-DDT	114	40	SS-38443-121018-JC-218	1.9 NJ	µg/Kg
	4,4'-DDE	78	40		2.0 J	µg/Kg

Notes:

J - Estimated concentration
NJ - Presumptively Identified; Estimated concentration
PCBs - Polychlorinated Biphenyls
RPD - Relative Percent Difference

Table 16

Qualified Sample Results Due to Outlying Identification Criteria
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October - December 2018

Parameter	Analyte	Associated Sample ID	Qualified Result	Units
Dioxin/Furan	SS-38443-102618-JC-026	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	17 J	pg/g
		1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	18 J	pg/g
		1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	10 J	pg/g
		1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	3.1 J	pg/g
		2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	4.2 J	pg/g
Dioxin/Furan	SS-38443-102618-JC-027	1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	53 J	pg/g
Dioxin/Furan	SS-38443-102618-JC-028	1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	1.8 J	pg/g
		1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	0.98 J	pg/g
		2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	1.9 J	pg/g
Dioxin/Furan	SS-38443-102618-JC-033	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	1.9 J	pg/g
		2,3,7,8-Tetrachlorodibenzofuran (TCDF)	1.0 J	pg/g
Dioxin/Furan	SS-38443-102618-JC-034	2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	1.3 J	pg/g

Notes:

J - Estimated concentration

Table 17

Qualified Sample Data Due to Exceedance of Calibration Range
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October - December 2018

Parameter	Sample ID	Analyte	Qualified Result	Units
Dioxin/Furan	SS-38443-102618-JC-033	1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	6200 J	pg/g

Notes:

J - Estimated concentration

Appendix C
Analytical Results – OU1 Soil/ Fill Samples

Table 1

Summary of Analytical Results
Soil/Fill Samples - EU1
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH102-17**	**BH103-17**	**BH104-17**	**BH158-17**	**SS-37**	**SS-38**	**SS-39**
Sample ID:		**S-38443-120717-JC-004**	**S-38443-120717-JC-002**	**S-38443-120717-JC-003**	**S-38443-120617-JC-001**	**SS-38443-112018-JC-037**	**SS-38443-112018-JC-038**	**S-38443-110117-BW-013**
Sample Date:		**12/7/2017**	**12/7/2017**	**12/7/2017**	**12/6/2017**	**11/20/2018**	**11/20/2018**	**11/1/2017**
Sample Depth:		**4.5-6.5 ft BGS**	**3-5 ft BGS**	**3-5 ft BGS**	**3-5 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/kg	0.20 U	R	0.21 U	-	0.75 U	0.76 U	0.39 U
1,1,2,2-Tetrachloroethane	ug/kg	0.23 U	R	0.23 U	-	1.3 U	1.3 U	0.44 U
1,1,2-Trichloroethane	ug/kg	0.35 U	R	0.35 U	-	1.0 U	1.1 U	0.65 U
1,1-Dichloroethane	ug/kg	0.29 U	R	0.30 U	-	0.63 U	0.65 U	0.55 U
1,1-Dichloroethene	ug/kg	0.48 U	R	0.49 U	-	0.82 U	0.84 U	0.91 U
1,2,4-Trichlorobenzene	ug/kg	0.21 U	R	0.22 U	-	0.52 U	0.53 U	0.40 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	0.60 U	R	0.61 U	-	3.3 U	3.4 U	1.1 U
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	0.31 U	R	0.32 U	-	0.70 U	0.72 U	0.59 U
1,2-Dichlorobenzene	ug/kg	0.20 U	R	0.20 U	-	1.0 U	1.0 U	0.37 U
1,2-Dichloroethane	ug/kg	0.26 U	R	0.26 U	-	0.70 U	0.72 U	0.49 U
1,2-Dichloropropane	ug/kg	0.27 U	R	0.28 U	-	0.77 U	0.79 U	0.52 U
1,3-Dichlorobenzene	ug/kg	0.26 U	R	0.26 U	-	0.74 U	0.76 U	0.49 U
1,4-Dichlorobenzene	ug/kg	0.31 U	R	0.32 U	-	0.80 U	0.82 U	0.59 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	2.9 J	R	2.5 J	-	3.2 U	3.3 U	2.1 U
2-Hexanone	ug/kg	0.51 U	R	0.52 U	-	3.7 U	3.8 U	0.97 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	0.79 U	R	0.80 U	-	3.4 U	3.5 U	1.5 U
Acetone	ug/kg	14 U	R	11 U	-	19 U	20 U	5.1 U
Benzene	ug/kg	0.28 U	R	0.29 U	-	0.64 U	0.65 U	0.54 U
Bromodichloromethane	ug/kg	0.29 U	R	0.30 U	-	0.62 U	0.63 U	0.55 U
Bromoform	ug/kg	0.35 U	R	0.36 U	-	2.2 U	2.2 U	0.67 U
Bromomethane (Methyl bromide)	ug/kg	0.52 U	R	0.53 U	-	0.90 U	0.92 U	0.99 UJ
Carbon disulfide	ug/kg	0.19 U	R	0.19 U	-	1.1 U	1.1 U	0.35 U
Carbon tetrachloride	ug/kg	0.22 U	R	0.23 U	-	3.0 U	3.0 U	0.42 U
Chlorobenzene	ug/kg	0.29 U	R	0.30 U	-	0.83 U	0.85 U	0.55 U
Chloroethane	ug/kg	0.34 U	R	0.34 U	-	1.1 U	1.1 U	0.64 U
Chloroform (Trichloromethane)	ug/kg	0.20 U	R	0.21 U	-	0.72 U	0.73 U	0.39 U
Chloromethane (Methyl chloride)	ug/kg	0.34 U	R	0.34 U	-	0.95 U	0.97 U	0.64 U
cis-1,2-Dichloroethene	ug/kg	0.25 U	R	0.25 U	-	0.59 U	0.61 U	0.47 U
cis-1,3-Dichloropropene	ug/kg	0.23 U	R	0.23 U	-	1.3 U	1.3 U	0.44 U
Cyclohexane	ug/kg	0.19 U	R	0.19 U	-	1.3 U	1.3 U	0.35 U
Dibromochloromethane	ug/kg	0.27 U	R	0.27 U	-	2.5 U	2.6 U	0.50 U
Dichlorodifluoromethane (CFC-12)	ug/kg	0.31 U	R	0.32 U	-	0.86 U	0.88 U	0.59 U
Ethylbenzene	ug/kg	0.24 U	R	0.24 U	-	0.95 U	0.98 U	0.45 U
Isopropyl benzene	ug/kg	0.18 U	R	0.18 U	-	0.76 U	0.78 U	0.34 U
Methyl acetate	ug/kg	1.0 U	R	1.1 U	-	3.1 U	3.2 U	2.0 U
Methyl cyclohexane	ug/kg	0.20 U	R	0.21 U	-	1.1 U	1.1 U	0.39 U
Methyl tert butyl ether (MTBE)	ug/kg	0.24 U	R	0.24 U	-	0.75 U	0.76 U	0.45 U
Methylene chloride	ug/kg	0.91 U	R	0.94 U	-	11 U	11 U	0.40 U
Styrene	ug/kg	0.24 U	R	0.24 U	-	1.1 U	1.1 U	0.45 U
Tetrachloroethene	ug/kg	0.33 U	R	0.33 U	-	0.66 U	0.68 U	0.62 U
Toluene	ug/kg	0.30 U	R	0.31 U	-	0.70 U	0.72 U	0.57 U
trans-1,2-Dichloroethene	ug/kg	0.34 U	R	0.34 U	-	0.42 U	0.43 U	0.64 U
trans-1,3-Dichloropropene	ug/kg	0.19 U	R	0.19 U	-	0.94 U	0.96 U	0.35 U
Trichloroethene	ug/kg	0.36 U	R	0.37 U	-	0.58 U	0.59 U	0.69 U

Table 1

Summary of Analytical Results
Soil/Fill Samples - EU1
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH102-17**	**BH103-17**	**BH104-17**	**BH158-17**	**SS-37**	**SS-38**	**SS-39**
Sample ID:		**S-38443-120717-JC-004**	**S-38443-120717-JC-002**	**S-38443-120717-JC-003**	**S-38443-120617-JC-001**	**SS-38443-112018-JC-037**	**SS-38443-112018-JC-038**	**S-38443-110117-BW-013**
Sample Date:		**12/7/2017**	**12/7/2017**	**12/7/2017**	**12/6/2017**	**11/20/2018**	**11/20/2018**	**11/1/2017**
Sample Depth:		**4.5-6.5 ft BGS**	**3-5 ft BGS**	**3-5 ft BGS**	**3-5 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**							
Trichlorofluoromethane (CFC-11)	ug/kg	0.21 U	R	0.22 U	-	0.98 U	1.0 U	0.40 U
Trifluorotrichloroethane (CFC-113)	ug/kg	0.43 U	R	0.44 U	-	1.2 U	1.2 U	0.82 U
Vinyl chloride	ug/kg	0.25 U	R	0.25 U	-	0.76 U	0.78 U	0.47 U
Xylenes (total)	ug/kg	0.35 U	R	0.36 U	-	1.4 U	1.5 U	0.67 U
Semi-Volatiles								
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	11 U	11 U	11 U	-	50 U	11 U	13 U
2,4,5-Trichlorophenol	ug/kg	29 U	28 U	30 U	-	340 U	78 U	34 U
2,4,6-Trichlorophenol	ug/kg	10 U	10 U	11 U	-	320 U	73 U	12 U
2,4-Dichlorophenol	ug/kg	23 U	22 U	24 U	-	220 U	50 U	27 U
2,4-Dimethylphenol	ug/kg	23 U	22 U	24 U	-	200 U	45 U	27 U
2,4-Dinitrophenol	ug/kg	25 U	23 U	25 U	-	710 U	160 U	29 U
2,4-Dinitrotoluene	ug/kg	20 U	19 U	20 U	-	310 U	70 U	23 U
2,6-Dinitrotoluene	ug/kg	25 U	23 U	25 U	-	280 U	64 U	29 U
2-Chloronaphthalene	ug/kg	0.53 U	0.50 U	0.54 U	-	70 U	16 U	0.62 U
2-Chlorophenol	ug/kg	9.6 U	9.2 U	9.8 U	-	50 U	11 U	11 U
2-Methylnaphthalene	ug/kg	26	38	11	-	25 J	12 J	73
2-Methylphenol	ug/kg	13 U	12 U	13 U	-	150 U	35 U	15 U
2-Nitroaniline	ug/kg	11 U	10 U	11 U	-	200 U	45 U	12 U
2-Nitrophenol	ug/kg	9.7 U	9.3 U	9.9 U	-	65 U	15 U	11 U
3&4-Methylphenol	ug/kg	23 U	22 U	24 U	-	140 U	33 U	27 U
3,3'-Dichlorobenzidine	ug/kg	21 U	20 U	22 U	-	210 U	49 U	25 U
3-Nitroaniline	ug/kg	19 U	18 U	19 U	-	240 U	56 U	22 U
4,6-Dinitro-2-methylphenol	ug/kg	11 U	10 U	11 U	-	400 U	91 U	13 U
4-Bromophenyl phenyl ether	ug/kg	15 U	15 U	16 U	-	70 U	16 U	18 U
4-Chloro-3-methylphenol	ug/kg	25 U	23 U	25 U	-	220 U	51 U	29 U
4-Chloroaniline	ug/kg	20 U	19 U	20 U	-	150 U	34 U	23 U
4-Chlorophenyl phenyl ether	ug/kg	15 U	15 U	16 U	-	70 U	16 U	18 U
4-Methylphenol	ug/kg	-	-	-	-	-	-	-
4-Nitroaniline	ug/kg	31 U	29 U	31 U	-	300 U	68 U	36 U
4-Nitrophenol	ug/kg	20 U	19 U	20 U	-	470 U	110 U	23 U
Acenaphthene	ug/kg	71	120	14	-	14 U	3.3 U	54
Acenaphthylene	ug/kg	120	9.8	17	-	320	42	35
Acetophenone	ug/kg	11 U	10 J	11 U	-	55 U	13 U	13 U
Anthracene	ug/kg	130	140	53	-	540	25	120
Atrazine	ug/kg	11 U	10 U	11 U	-	180 U	41 U	12 U
Benzaldehyde	ug/kg	14 U	13 U	14 U	-	110 U	26 U	16 J
Benzo(a)anthracene	ug/kg	630	450	210	-	3400	210	510
Benzo(a)pyrene	ug/kg	570	360	190	-	3100	190	460
Benzo(b)fluoranthene	ug/kg	980	540	270	-	3900	280	630
Benzo(g,h,i)perylene	ug/kg	170	120	71	-	2400	160	280
Benzo(k)fluoranthene	ug/kg	360	280	110	-	1500	120	280
Biphenyl (1,1-Biphenyl)	ug/kg	8.1 J	13 J	4.2 U	-	85 U	19 U	11 J
bis(2-Chloroethoxy)methane	ug/kg	26 U	25 U	26 U	-	60 U	14 U	30 U
bis(2-Chloroethyl)ether	ug/kg	2.3 U	2.2 U	2.4 U	-	60 U	14 U	2.7 U

Table 1

Summary of Analytical Results
Soil/Fill Samples - EU1
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH102-17**	**BH103-17**	**BH104-17**	**BH158-17**	**SS-37**	**SS-38**	**SS-39**
Sample ID:		**S-38443-120717-JC-004**	**S-38443-120717-JC-002**	**S-38443-120717-JC-003**	**S-38443-120617-JC-001**	**SS-38443-112018-JC-037**	**SS-38443-112018-JC-038**	**S-38443-110117-BW-013**
Sample Date:		**12/7/2017**	**12/7/2017**	**12/7/2017**	**12/6/2017**	**11/20/2018**	**11/20/2018**	**11/1/2017**
Sample Depth:		**4.5-6.5 ft BGS**	**3-5 ft BGS**	**3-5 ft BGS**	**3-5 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**							
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	96	110	37 U	-	320 J	78 J	67 U
Butyl benzylphthalate (BBP)	ug/kg	12 U	11 U	12 U	-	110 U	25 U	14 U
Caprolactam	ug/kg	43 U	41 U	44 U	-	370 U	85 U	51 U
Carbazole	ug/kg	43 J	65	32 U	-	130 J	22 U	80
Chrysene	ug/kg	610	450	220	-	3200	210	560
Dibenz(a,h)anthracene	ug/kg	61	41	29	-	570	30	59
Dibenzofuran	ug/kg	50 J	67	14 J	-	65 U	15 U	45 J
Diethyl phthalate	ug/kg	19 U	18 U	19 U	-	150 U	35 U	22 U
Dimethyl phthalate	ug/kg	20 U	19 U	20 U	-	70 U	16 U	23 U
Di-n-butylphthalate (DBP)	ug/kg	18 U	17 U	18 U	-	110 U	25 U	21 U
Di-n-octyl phthalate (DnOP)	ug/kg	9.3 U	8.8 U	9.4 U	-	140 U	32 U	11 U
Fluoranthene	ug/kg	1300	1000	410	-	4800	270	1200
Fluorene	ug/kg	95	100	19	-	62 J	3.1 U	51
Hexachlorobenzene	ug/kg	2.5 U	2.3 U	2.5 U	-	14 U	3.2 U	2.9 U
Hexachlorobutadiene	ug/kg	6.6 U	6.3 U	6.7 U	-	60 U	14 U	7.7 U
Hexachlorocyclopentadiene	ug/kg	R	9.1 U	9.7 U	-	310 U	70 U	11 U
Hexachloroethane	ug/kg	11 U	10 U	11 U	-	45 U	10 U	12 U
Indeno(1,2,3-cd)pyrene	ug/kg	180	110	66	-	1900	130	230
Isophorone	ug/kg	15 U	15 U	16 U	-	60 U	14 U	18 U
Naphthalene	ug/kg	32	190	12	-	63 J	12 J	56
Nitrobenzene	ug/kg	2.6 U	2.5 U	2.6 U	-	65 U	15 U	3.0 U
N-Nitrosodi-n-propylamine	ug/kg	7.4 U	7.0 U	7.5 U	-	55 U	13 U	8.6 U
N-Nitrosodiphenylamine	ug/kg	25 U	23 U	25 U	-	60 U	14 U	29 U
Pentachlorophenol	ug/kg	11 U	10 U	11 U	-	290 U	66 U	12 U
Phenanthrene	ug/kg	460 J	580	170	-	1500	67	620
Phenol	ug/kg	8.6 U	8.2 U	8.7 U	-	40 U	9.1 U	13 J
Pyrene	ug/kg	1200	930	430	-	5200	270	940
Metals								
Aluminum	mg/kg	7200	6300	11000	-	7500	5000	8400 J
Antimony	mg/kg	0.34 J	0.35 J	2.4 J	-	0.21 J	0.14 J	0.84 J
Arsenic	mg/kg	7.7	8.0	12	-	7.8	5.6	29
Barium	mg/kg	94	79	79	-	82	42	170 J
Beryllium	mg/kg	0.49	0.41	0.51	-	0.43	0.26	2.5
Cadmium	mg/kg	0.31	0.37	0.21 J	-	2.2	0.23	0.39
Calcium	mg/kg	52000	83000	57000	-	45000	150000	52000
Chromium	mg/kg	12	11	17	13	13	8.1	16
Chromium III (trivalent)	mg/kg	12	11	16	13	13	8.1	-
Chromium VI (hexavalent)	mg/kg	0.56 U	0.80 J	0.34 J	0.26 U	1.5 U	0.27 U	-
Cobalt	mg/kg	7.2	5.2	6.0	-	6.8	4.5	9.6
Copper	mg/kg	22 J	42 J	26 J	-	37	17	44
Iron	mg/kg	14000	13000	22000	-	16000	13000	13000
Lead	mg/kg	39	45	61	-	29	21	51 J
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-

Table 1

Summary of Analytical Results
Soil/Fill Samples - EU1
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH102-17**	**BH103-17**	**BH104-17**	**BH158-17**	**SS-37**	**SS-38**	**SS-39**
Sample ID:		**S-38443-120717-JC-004**	**S-38443-120717-JC-002**	**S-38443-120717-JC-003**	**S-38443-120617-JC-001**	**SS-38443-112018-JC-037**	**SS-38443-112018-JC-038**	**S-38443-110117-BW-013**
Sample Date:		**12/7/2017**	**12/7/2017**	**12/7/2017**	**12/6/2017**	**11/20/2018**	**11/20/2018**	**11/1/2017**
Sample Depth:		**4.5-6.5 ft BGS**	**3-5 ft BGS**	**3-5 ft BGS**	**3-5 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**							
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-
Magnesium	mg/kg	18000	30000	23000	-	18000	47000	19000
Manganese	mg/kg	310	390	240	-	330	450	280
Mercury	mg/kg	0.027 J	0.077 J	0.039 J	-	0.097 J	0.042 J	0.27
Nickel	mg/kg	15	12	14	-	14	12	25 J
Potassium	mg/kg	720	1000	820	-	850	710	1200
Selenium	mg/kg	0.92 J	0.70 J	0.88 J	-	1.1 J	0.60 J	3.7
Silver	mg/kg	0.065 J	0.077 J	0.041 J	-	0.053 J	0.024 J	0.089 J
Sodium	mg/kg	290	140 U	140 U	-	72 J	120 J	180 U
Thallium	mg/kg	0.22 J	0.17 J	0.31 J	-	0.21 J	0.20	0.82
Vanadium	mg/kg	19	18	31	-	20	16	37
Zinc	mg/kg	75	95	68	-	68	42	77
PCBs								
Aroclor-1016 (PCB-1016)	ug/kg	26 U	510 U	27 U	-	28 U	25 U	33 U
Aroclor-1221 (PCB-1221)	ug/kg	29 U	550 U	29 U	-	31 U	27 U	32 U
Aroclor-1232 (PCB-1232)	ug/kg	27 U	530 U	28 U	-	29 U	26 U	22 U
Aroclor-1242 (PCB-1242)	ug/kg	23 U	440 U	23 U	-	24 U	22 U	28 U
Aroclor-1248 (PCB-1248)	ug/kg	29 U	550 U	29 U	-	31 U	27 U	24 U
Aroclor-1254 (PCB-1254)	ug/kg	33 J	16000	28 U	-	29 U	26 U	33 J
Aroclor-1260 (PCB-1260)	ug/kg	26 U	510 U	27 U	-	28 U	25 U	25 U
Pesticides								
4,4'-DDD	ug/kg	37 U	190 U	19 U	-	1.8 U	1.6 U	46 U
4,4'-DDE	ug/kg	13 U	67 U	7.0 U	-	1.9 U	1.6 U	17 U
4,4'-DDT	ug/kg	16 U	79 U	8.2 U	-	1.4 U	1.2 U	20 U
Aldrin	ug/kg	27 U	130 U	14 U	-	0.96 U	0.84 U	34 U
alpha-BHC	ug/kg	18 U	90 U	9.4 U	-	1.1 U	0.99 U	22 U
alpha-Chlordane	ug/kg	42 U	210 U	22 U	-	8.9 J	1.6 U	53 U
beta-BHC	ug/kg	43 U	220 U	23 U	-	2.2 U	1.9 U	54 U
delta-BHC	ug/kg	14 U	73 U	7.6 U	-	2.1 U	1.8 U	18 U
Dieldrin	ug/kg	10 U	51 U	5.3 U	-	1.4 U	1.2 U	13 U
Endosulfan I	ug/kg	14 U	73 U	7.6 U	-	1.5 U	1.3 U	18 U
Endosulfan II	ug/kg	20 U	100 U	11 U	-	1.8 U	1.6 U	25 U
Endosulfan sulfate	ug/kg	13 U	67 U	7.0 U	-	1.6 U	1.4 U	17 U
Endrin	ug/kg	16 U	130 NJ	8.2 U	-	2.4 U	2.1 U	20 U
Endrin aldehyde	ug/kg	20 UJ	100 U	11 UJ	-	1.6 U	1.4 U	25 U
Endrin ketone	ug/kg	12 U	62 U	6.5 U	-	1.1 U	0.97 U	15 U
gamma-BHC (lindane)	ug/kg	32 U	160 U	17 U	-	2.2 U	2.0 U	40 U
gamma-Chlordane	ug/kg	17 U	84 U	8.8 U	-	9.2 J	1.3 U	21 U
Heptachlor	ug/kg	8.7 U	44 U	4.6 U	-	2.0 U	1.7 U	11 U
Heptachlor epoxide	ug/kg	27 U	130 NJ	14 U	-	3.8 J	1.6 U	34 U
Methoxychlor	ug/kg	13 U	67 U	7.0 U	-	8.2 U	7.2 U	17 U
Toxaphene	ug/kg	410 U	2100 U	220 U	-	31 U	27 U	520 U

Table 1

Summary of Analytical Results
Soil/Fill Samples - EU1
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH102-17**	**BH103-17**	**BH104-17**	**BH158-17**	**SS-37**	**SS-38**	**SS-39**
Sample ID:		**S-38443-120717-JC-004**	**S-38443-120717-JC-002**	**S-38443-120717-JC-003**	**S-38443-120617-JC-001**	**SS-38443-112018-JC-037**	**SS-38443-112018-JC-038**	**S-38443-110117-BW-013**
Sample Date:		**12/7/2017**	**12/7/2017**	**12/7/2017**	**12/6/2017**	**11/20/2018**	**11/20/2018**	**11/1/2017**
Sample Depth:		**4.5-6.5 ft BGS**	**3-5 ft BGS**	**3-5 ft BGS**	**3-5 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**							
Herbicides								
2,4,5-T	ug/kg	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/kg	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	-	-	-	-	-	-	-
Asbestos								
Asbestos	%	ND	ND	ND	-	-	-	-
General Chemistry								
Cyanide (total)	mg/kg	0.37 U	0.25 U	0.19 U	-	0.24 U	0.21 U	0.64 U
Total solids	%	-	-	-	-	-	-	-

Notes
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 1

Summary of Analytical Results
Soil/Fill Samples - EU1
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-39**	**SS-40**	**SS-41**	**SS-42**	**SS-43**	**SS-44**	**SS-45**
Sample ID:		**S-38443-110117-BW-014**	**SS-38443-112018-JC-040**	**SS-38443-112018-JC-041**	**SS-38443-112718-AS-042**	**SS-38443-112718-AS-043**	**SS-38443-112718-AS-044**	**SS-38443-112718-AS-045**
Sample Date:		**11/1/2017**	**11/20/2018**	**11/20/2018**	**11/27/2018**	**11/27/2018**	**11/27/2018**	**11/27/2018**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-0.67 ft BGS**	**0.17-1 ft BGS**	**0.08-1 ft BGS**	**0.17-1.5 ft BGS**
		Duplicate						
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/kg	0.31 U	0.93 U	-	0.68 U	1.0 U	0.93 U	1.2 U
1,1,2,2-Tetrachloroethane	ug/kg	0.35 U	1.6 U	-	1.2 U	1.8 U	1.6 U	2.0 U
1,1,2-Trichloroethane	ug/kg	0.53 U	1.3 U	-	0.94 U	1.4 U	1.3 U	1.6 U
1,1-Dichloroethane	ug/kg	0.45 U	0.78 U	-	0.57 U	0.86 U	0.78 U	0.97 U
1,1-Dichloroethene	ug/kg	0.73 U	1.0 U	-	0.75 U	1.1 U	1.0 U	1.3 U
1,2,4-Trichlorobenzene	ug/kg	0.32 U	0.65 U	-	0.47 U	0.71 U	0.65 U	0.80 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	0.92 U	4.1 U	-	3.0 U	4.5 U	4.1 U	5.1 U
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	0.47 U	0.87 U	-	0.64 U	0.96 U	0.87 U	1.1 U
1,2-Dichlorobenzene	ug/kg	0.30 U	1.3 U	-	0.92 U	1.4 U	1.3 U	1.6 U
1,2-Dichloroethane	ug/kg	0.39 U	0.87 U	-	0.64 U	0.96 U	0.87 U	1.1 U
1,2-Dichloropropane	ug/kg	0.42 U	0.96 U	-	0.70 U	1.1 U	0.96 U	1.2 U
1,3-Dichlorobenzene	ug/kg	0.39 U	0.92 U	-	0.67 U	1.0 U	0.92 U	1.1 U
1,4-Dichlorobenzene	ug/kg	0.47 U	1.0 U	-	0.73 U	1.1 U	1.0 U	1.2 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	1.7 U	4.0 U	-	2.9 U	4.4 U	4.0 U	5.0 U
2-Hexanone	ug/kg	0.78 U	4.6 U	-	3.4 U	5.1 U	4.6 U	5.7 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	1.2 U	4.2 U	-	3.1 U	4.6 U	4.2 U	5.2 U
Acetone	ug/kg	4.1 U	24 U	-	17 U	26 U	24 U	30 U
Benzene	ug/kg	0.43 U	0.79 U	-	0.58 U	0.87 U	0.79 U	0.98 U
Bromodichloromethane	ug/kg	0.45 U	0.77 U	-	0.56 U	0.85 U	0.77 U	0.96 U
Bromoform	ug/kg	0.54 U	2.7 U	-	2.0 U	3.0 U	2.7 U	3.4 U
Bromomethane (Methyl bromide)	ug/kg	0.80 U	1.1 U	-	0.82 U	1.2 U	1.1 U	1.4 U
Carbon disulfide	ug/kg	0.28 U	1.3 U	-	0.96 U	1.5 U	1.3 U	1.6 U
Carbon tetrachloride	ug/kg	0.34 U	3.7 U	-	2.7 U	4.1 U	3.7 U	4.6 U
Chlorobenzene	ug/kg	0.45 U	1.0 U	-	0.76 U	1.1 U	1.0 U	1.3 U
Chloroethane	ug/kg	0.51 U	1.4 U	-	1.0 U	1.5 U	1.4 U	1.7 U
Chloroform (Trichloromethane)	ug/kg	0.31 U	0.89 U	-	0.65 U	0.98 U	0.89 U	1.1 U
Chloromethane (Methyl chloride)	ug/kg	0.51 U	1.2 U	-	0.86 U	1.3 U	1.2 U	1.5 U
cis-1,2-Dichloroethene	ug/kg	0.38 U	0.74 U	-	0.54 U	0.81 U	0.73 U	0.92 U
cis-1,3-Dichloropropene	ug/kg	0.35 U	1.6 U	-	1.2 U	1.8 U	1.6 U	2.0 U
Cyclohexane	ug/kg	0.28 U	1.6 U	-	1.1 U	1.7 U	1.6 U	1.9 U
Dibromochloromethane	ug/kg	0.41 U	3.2 U	-	2.3 U	3.5 U	3.1 U	3.9 U
Dichlorodifluoromethane (CFC-12)	ug/kg	0.47 U	1.1 U	-	0.78 U	1.2 U	1.1 U	1.3 U
Ethylbenzene	ug/kg	0.37 U	1.2 U	-	0.87 U	1.3 U	1.2 U	1.5 U
Isopropyl benzene	ug/kg	0.27 U	0.94 U	-	0.69 U	1.0 U	0.94 U	1.2 U
Methyl acetate	ug/kg	1.6 U	3.9 U	-	2.8 U	4.2 U	3.8 U	4.8 U
Methyl cyclohexane	ug/kg	0.31 U	1.4 U	-	1.0 U	1.5 U	1.4 U	1.7 U
Methyl tert butyl ether (MTBE)	ug/kg	0.37 U	0.93 U	-	0.68 U	1.0 U	0.93 U	1.2 U
Methylene chloride	ug/kg	0.32 U	14 U	-	9.9 U	15 U	14 U	17 U
Styrene	ug/kg	0.37 U	1.3 U	-	0.96 U	1.4 U	1.3 U	1.6 U
Tetrachloroethene	ug/kg	0.50 U	0.83 U	-	0.60 U	0.91 U	0.82 U	1.0 U
Toluene	ug/kg	0.46 U	0.88 U	-	0.64 U	0.96 U	0.87 U	1.1 U
trans-1,2-Dichloroethene	ug/kg	0.51 U	0.53 U	-	0.38 U	0.58 U	0.52 U	0.65 U
trans-1,3-Dichloropropene	ug/kg	0.28 U	1.2 U	-	0.85 U	1.3 U	1.2 U	1.5 U
Trichloroethene	ug/kg	0.55 U	0.72 U	-	0.52 U	0.79 U	0.71 U	0.89 U

Table 1

Summary of Analytical Results
Soil/Fill Samples - EU1
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-39**	**SS-40**	**SS-41**	**SS-42**	**SS-43**	**SS-44**	**SS-45**
Sample ID:		**S-38443-110117-BW-014**	**SS-38443-112018-JC-040**	**SS-38443-112018-JC-041**	**SS-38443-112718-AS-042**	**SS-38443-112718-AS-043**	**SS-38443-112718-AS-044**	**SS-38443-112718-AS-045**
Sample Date:		**11/1/2017**	**11/20/2018**	**11/20/2018**	**11/27/2018**	**11/27/2018**	**11/27/2018**	**11/27/2018**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-0.67 ft BGS**	**0.17-1 ft BGS**	**0.08-1 ft BGS**	**0.17-1.5 ft BGS**
		Duplicate						
Parameters	**Units**							
Trichlorofluoromethane (CFC-11)	ug/kg	0.32 U	1.2 U	-	0.89 U	1.3 U	1.2 U	1.5 U
Trifluorotrichloroethane (CFC-113)	ug/kg	0.66 U	1.5 U	-	1.1 U	1.6 U	1.4 U	1.8 U
Vinyl chloride	ug/kg	0.38 U	0.95 U	-	0.69 U	1.0 U	0.94 U	1.2 U
Xylenes (total)	ug/kg	0.54 U	1.8 U	-	1.3 U	2.0 U	1.8 U	2.2 U
Semi-Volatiles								
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	24 U	46 U	-	12 U	12 U	44 U	23 U
2,4,5-Trichlorophenol	ug/kg	63 U	320 U	-	80 U	81 U	300 U	160 U
2,4,6-Trichlorophenol	ug/kg	23 U	290 U	-	74 U	75 U	280 U	150 U
2,4-Dichlorophenol	ug/kg	51 U	200 U	-	51 U	52 U	190 U	100 U
2,4-Dimethylphenol	ug/kg	51 U	180 U	-	46 U	47 U	180 U	93 U
2,4-Dinitrophenol	ug/kg	53 U	650 U	-	160 U	170 U	630 U	330 U
2,4-Dinitrotoluene	ug/kg	43 U	280 U	-	72 U	73 U	270 U	140 U
2,6-Dinitrotoluene	ug/kg	53 U	260 U	-	65 U	66 U	250 U	130 U
2-Chloronaphthalene	ug/kg	1.1 U	64 U	-	16 U	16 U	62 U	33 U
2-Chlorophenol	ug/kg	21 U	46 U	-	12 U	12 U	44 U	23 U
2-Methylnaphthalene	ug/kg	58	67 J	-	36	12 J	85	29 J
2-Methylphenol	ug/kg	28 U	140 U	-	36 U	36 U	140 U	72 U
2-Nitroaniline	ug/kg	23 U	180 U	-	46 U	47 U	180 U	93 U
2-Nitrophenol	ug/kg	21 U	59 U	-	15 U	15 U	57 U	30 U
3&4-Methylphenol	ug/kg	51 U	130 U	-	34 U	34 U	130 U	67 U
3,3'-Dichlorobenzidine	ug/kg	46 U	200 U	-	50 U	51 U	190 U	100 U
3-Nitroaniline	ug/kg	41 U	220 U	-	57 U	58 U	220 U	110 U
4,6-Dinitro-2-methylphenol	ug/kg	23 U	370 U	-	93 U	94 U	350 U	190 U
4-Bromophenyl phenyl ether	ug/kg	33 U	64 U	-	16 U	16 U	62 U	33 U
4-Chloro-3-methylphenol	ug/kg	53 U	210 U	-	52 U	53 U	200 U	100 U
4-Chloroaniline	ug/kg	43 U	140 U	-	35 U	35 U	130 U	70 U
4-Chlorophenyl phenyl ether	ug/kg	33 U	64 U	-	16 U	16 U	62 U	33 U
4-Methylphenol	ug/kg	-	-	-	-	-	-	-
4-Nitroaniline	ug/kg	66 U	270 U	-	69 U	71 U	260 U	140 U
4-Nitrophenol	ug/kg	43 U	430 U	-	110 U	110 U	410 U	220 U
Acenaphthene	ug/kg	52	150	-	12 J	43	13 U	130
Acenaphthylene	ug/kg	39	67 J	-	12 J	200	120	44
Acetophenone	ug/kg	23 U	50 U	-	13 U	13 U	48 U	26 U
Anthracene	ug/kg	120	380	-	40	140	99	170 J
Atrazine	ug/kg	23 U	160 U	-	42 U	42 U	160 U	84 U
Benzaldehyde	ug/kg	30 U	110 U	-	27 U	27 U	100 U	54 U
Benzo(a)anthracene	ug/kg	590	2500	-	210	630	320	600 J
Benzo(a)pyrene	ug/kg	510	2400	-	240	890	450	580 J
Benzo(b)fluoranthene	ug/kg	830	3400	-	400	1200	630	920 J
Benzo(g,h,i)perylene	ug/kg	280	2100	-	190	650	830	390
Benzo(k)fluoranthene	ug/kg	300	1400	-	140	460	280	420 J
Biphenyl (1,1-Biphenyl)	ug/kg	10 J	78 U	-	20 U	20 U	75 U	40 U
bis(2-Chloroethoxy)methane	ug/kg	56 U	55 U	-	14 U	14 U	53 U	28 U
bis(2-Chloroethyl)ether	ug/kg	5.1 U	55 U	-	14 U	14 U	53 U	28 U

Table 1

Summary of Analytical Results
Soil/Fill Samples - EU1
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-39**	**SS-40**	**SS-41**	**SS-42**	**SS-43**	**SS-44**	**SS-45**
Sample ID:		**S-38443-110117-BW-014**	**SS-38443-112018-JC-040**	**SS-38443-112018-JC-041**	**SS-38443-112718-AS-042**	**SS-38443-112718-AS-043**	**SS-38443-112718-AS-044**	**SS-38443-112718-AS-045**
Sample Date:		**11/1/2017**	**11/20/2018**	**11/20/2018**	**11/27/2018**	**11/27/2018**	**11/27/2018**	**11/27/2018**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-0.67 ft BGS**	**0.17-1 ft BGS**	**0.08-1 ft BGS**	**0.17-1.5 ft BGS**
		Duplicate						
Parameters	**Units**							
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	125 U	330	-	59 U	60 U	220 U	120 U
Butyl benzylphthalate (BBP)	ug/kg	25 U	100 U	-	25 U	26 U	97 U	51 U
Caprolactam	ug/kg	320 J	340 U	-	87 U	88 U	330 U	170 U
Carbazole	ug/kg	70 J	330	-	26 J	84	84 U	130
Chrysene	ug/kg	660	2800	-	260	640	360	670 J
Dibenz(a,h)anthracene	ug/kg	74	530	-	8.0 U	160	30 U	98
Dibenzofuran	ug/kg	40 J	67 J	-	18 J	23 J	57 U	62 J
Diethyl phthalate	ug/kg	41 U	140 U	-	36 U	36 U	140 U	72 U
Dimethyl phthalate	ug/kg	43 U	64 U	-	16 U	16 U	62 U	33 U
Di-n-butylphthalate (DBP)	ug/kg	38 U	100 U	-	27 U	26 U	97 U	64 U
Di-n-octyl phthalate (DnOP)	ug/kg	20 U	130 U	-	32 U	33 U	120 U	65 U
Fluoranthene	ug/kg	1200	4700	-	490	1300	570	1700 J
Fluorene	ug/kg	44	120	-	13 J	51	12 U	88
Hexachlorobenzene	ug/kg	5.3 U	13 U	-	3.3 U	3.4 U	13 U	6.6 U
Hexachlorobutadiene	ug/kg	14 U	55 U	-	14 U	14 U	53 U	28 U
Hexachlorocyclopentadiene	ug/kg	21 U	280 U	-	72 U	73 U	270 U	R
Hexachloroethane	ug/kg	23 U	41 U	-	10 U	11 U	40 U	21 U
Indeno(1,2,3-cd)pyrene	ug/kg	250	1700	-	170	560	220	330 J
Isophorone	ug/kg	33 U	55 U	-	14 U	14 U	53 U	28 U
Naphthalene	ug/kg	42	49 J	-	24	21	60 J	33 J
Nitrobenzene	ug/kg	5.6 U	59 U	-	15 U	15 U	57 U	30 U
N-Nitrosodi-n-propylamine	ug/kg	16 U	50 U	-	13 U	13 U	48 U	26 U
N-Nitrosodiphenylamine	ug/kg	53 U	55 U	-	14 U	14 U	53 U	28 U
Pentachlorophenol	ug/kg	23 U	260 U	-	67 U	68 U	260 U	130 U
Phenanthrene	ug/kg	580	2000	-	220	470	270	1100 J
Phenol	ug/kg	18 U	37 U	-	9.3 U	9.4 U	35 U	19 U
Pyrene	ug/kg	1100	4800	-	420	1300	620	1300
Metals								
Aluminum	mg/kg	7700 J	4000	-	7500	5300	3000	4600
Antimony	mg/kg	0.60 J	0.15 J	-	0.19 J	0.16 J	0.18 J	0.20 J
Arsenic	mg/kg	21	5.4	-	9.3	6.7	3.6	8.6
Barium	mg/kg	140 J	49	-	66 J	57 J	44 J	45 J
Beryllium	mg/kg	2.2	0.27	-	0.45 J	0.32 J	0.26 J	0.39 J
Cadmium	mg/kg	0.35	0.26	-	0.23	0.24	1.3	0.25
Calcium	mg/kg	65000	99000	-	65000	61000	190000	190000
Chromium	mg/kg	15	8.6	-	14	8.5	6.8	8.7
Chromium III (trivalent)	mg/kg	-	8.3	-	14	7.9	6.8	8.7
Chromium VI (hexavalent)	mg/kg	-	0.31 J	-	0.28 U	0.56 J	0.27 U	0.28 U
Cobalt	mg/kg	8.0	3.9	-	5.9	4.6	2.7	4.7
Copper	mg/kg	40	19	-	30 J	14 J	16 J	17 J
Iron	mg/kg	12000	9200	-	15000	12000	7000	11000
Lead	mg/kg	46 J	26	-	25 J	30 J	39 J	19 J
Lead - coarse fraction	mg/kg	-	-	-	24	-	62	-
Lead - fine fraction	mg/kg	-	-	-	48	-	100	-

Table 1

Summary of Analytical Results
Soil/Fill Samples - EU1
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-39**	**SS-40**	**SS-41**	**SS-42**	**SS-43**	**SS-44**	**SS-45**
Sample ID:		**S-38443-110117-BW-014**	**SS-38443-112018-JC-040**	**SS-38443-112018-JC-041**	**SS-38443-112718-AS-042**	**SS-38443-112718-AS-043**	**SS-38443-112718-AS-044**	**SS-38443-112718-AS-045**
Sample Date:		**11/1/2017**	**11/20/2018**	**11/20/2018**	**11/27/2018**	**11/27/2018**	**11/27/2018**	**11/27/2018**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-0.67 ft BGS**	**0.17-1 ft BGS**	**0.08-1 ft BGS**	**0.17-1.5 ft BGS**
		Duplicate						
Parameters	**Units**							
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	26	-	70	-
Magnesium	mg/kg	25000	30000	-	30000	23000	29000	36000
Manganese	mg/kg	270	320	-	530 J	300 J	320 J	390 J
Mercury	mg/kg	0.23	0.094 J	-	0.050 J	0.071 J	0.13	0.078 J
Nickel	mg/kg	22 J	11	-	15 J	11 J	7.7 J	16 J
Potassium	mg/kg	1100	590	-	740 J	720 J	450 J	660 J
Selenium	mg/kg	3.3	0.78 J	-	0.86 J	0.62 J	0.60 J	0.81 J
Silver	mg/kg	0.083 J	0.061 J	-	0.048 J	0.035 J	0.028 J	0.025 J
Sodium	mg/kg	160 U	98 J	-	90 J	79 J	120 J	150 J
Thallium	mg/kg	0.62	0.14 J	-	0.20	0.15 J	0.12 J	0.19
Vanadium	mg/kg	30	13	-	22	13	12	16
Zinc	mg/kg	72	61	-	58 J	57 J	48 J	46 J
PCBs								
Aroclor-1016 (PCB-1016)	ug/kg	31 UJ	24 U	-	25 U	26 U	24 U	25 U
Aroclor-1221 (PCB-1221)	ug/kg	30 UJ	26 U	-	28 U	28 U	26 U	28 U
Aroclor-1232 (PCB-1232)	ug/kg	21 UJ	25 U	-	26 U	27 U	25 U	26 U
Aroclor-1242 (PCB-1242)	ug/kg	26 U	21 U	-	22 U	22 U	21 U	22 U
Aroclor-1248 (PCB-1248)	ug/kg	22 UJ	26 U	-	28 U	28 U	26 U	28 U
Aroclor-1254 (PCB-1254)	ug/kg	18 U	25 U	-	180	27 U	25 U	26 U
Aroclor-1260 (PCB-1260)	ug/kg	24 J	24 U	-	25 U	26 U	24 U	25 U
Pesticides								
4,4'-DDD	ug/kg	21 U	1.7 U	-	1.8 U	1.7 U	1.6 U	8.3 U
4,4'-DDE	ug/kg	7.6 U	1.8 U	-	1.8 U	1.8 U	1.7 U	8.4 U
4,4'-DDT	ug/kg	8.9 U	1.3 U	-	1.3 U	1.3 U	1.2 NJ	6.3 U
Aldrin	ug/kg	15 U	0.90 U	-	0.91 U	0.90 U	0.85 U	4.3 U
alpha-BHC	ug/kg	10 U	1.1 U	-	1.1 U	1.1 U	1.0 U	5.1 U
alpha-Chlordane	ug/kg	24 U	20	-	1.8 U	3.1 J	1.6 U	32
beta-BHC	ug/kg	25 U	2.0 U	-	2.0 U	2.0 U	1.9 U	9.6 U
delta-BHC	ug/kg	8.3 U	2.0 U	-	2.0 U	2.0 U	1.9 U	9.4 U
Dieldrin	ug/kg	5.7 U	1.3 U	-	1.3 U	1.3 U	1.2 U	6.1 U
Endosulfan I	ug/kg	8.3 U	2.1 NJ	-	1.4 U	1.4 U	1.3 U	6.7 U
Endosulfan II	ug/kg	11 U	1.7 U	-	1.8 U	1.7 U	1.6 U	8.3 U
Endosulfan sulfate	ug/kg	7.6 U	1.5 U	-	1.5 U	1.5 U	1.4 U	7.1 U
Endrin	ug/kg	8.9 U	2.2 U	-	2.2 U	2.2 U	2.1 U	11 U
Endrin aldehyde	ug/kg	11 U	2.1 J	-	1.5 U	1.5 U	1.4 U	7.3 U
Endrin ketone	ug/kg	7.0 U	1.0 U	-	1.1 U	1.0 U	0.98 U	5.0 U
gamma-BHC (lindane)	ug/kg	18 U	2.1 U	-	2.1 U	2.1 U	2.0 U	10 U
gamma-Chlordane	ug/kg	9.6 U	13	-	1.5 U	1.9 J	1.4 U	27 J
Heptachlor	ug/kg	5.0 U	1.8 U	-	1.9 U	1.8 U	1.7 U	8.8 U
Heptachlor epoxide	ug/kg	15 U	1.7 U	-	1.7 U	1.7 U	1.6 U	8.0 U
Methoxychlor	ug/kg	7.6 U	7.6 U	-	7.8 U	7.7 U	7.2 U	37 U
Toxaphene	ug/kg	240 U	29 U	-	30 U	29 U	27 U	140 U

Table 1

Summary of Analytical Results
Soil/Fill Samples - EU1
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-39**	**SS-40**	**SS-41**	**SS-42**	**SS-43**	**SS-44**	**SS-45**
Sample ID:		**S-38443-110117-BW-014**	**SS-38443-112018-JC-040**	**SS-38443-112018-JC-041**	**SS-38443-112718-AS-042**	**SS-38443-112718-AS-043**	**SS-38443-112718-AS-044**	**SS-38443-112718-AS-045**
Sample Date:		**11/1/2017**	**11/20/2018**	**11/20/2018**	**11/27/2018**	**11/27/2018**	**11/27/2018**	**11/27/2018**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-0.67 ft BGS**	**0.17-1 ft BGS**	**0.08-1 ft BGS**	**0.17-1.5 ft BGS**
		Duplicate						
Parameters	**Units**							
Herbicides								
2,4,5-T	ug/kg	-	-	16 U	-	-	-	-
2,4,5-TP (Silvex)	ug/kg	-	-	17 U	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	-	-	59 U	-	-	-	-
Asbestos								
Asbestos	%	-	-	-	-	-	-	-
General Chemistry								
Cyanide (total)	mg/kg	0.56 U	0.23 U	-	0.21 U	0.24 U	0.22 U	0.24 U
Total solids	%	-	-	-	-	-	-	-

Notes
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 1

Summary of Analytical Results
Soil/Fill Samples - EU1
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-122**	**SS-124**	**SS-153-AS**	**SS-154-AS**	**SS-155-AS**	**TT-14**	**TT-16**
Sample ID:		**SS-38443-112018-JC-122**	**SS-38443-112718-AS-124**	**SS-38443-112018-JC-153**	**SS-38443-112018-JC-154**	**SS-38443-112718-JC-155**	**S-38443-092508-KMV-015**	**S-38443-093008-KMV-033**
Sample Date:		**11/20/2018**	**11/27/2018**	**11/20/2018**	**11/20/2018**	**11/27/2018**	**9/25/2008**	**9/30/2008**
Sample Depth:		**0-2 ft BGS**	**0.17-1.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0.17-1.5 ft BGS**	**3 ft BGS**	**2 ft BGS**
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/kg	-	-	-	-	-	5.3 U	4.7 U
1,1,2,2-Tetrachloroethane	ug/kg	-	-	-	-	-	5.3 U	4.7 U
1,1,2-Trichloroethane	ug/kg	-	-	-	-	-	5.3 U	4.7 U
1,1-Dichloroethane	ug/kg	-	-	-	-	-	5.3 U	4.7 U
1,1-Dichloroethene	ug/kg	-	-	-	-	-	5.3 U	4.7 U
1,2,4-Trichlorobenzene	ug/kg	-	-	-	-	-	5.3 U	4.7 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	-	-	-	-	-	11 U	9.4 U
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	-	-	-	-	-	5.3 U	4.7 U
1,2-Dichlorobenzene	ug/kg	-	-	-	-	-	5.3 U	4.7 U
1,2-Dichloroethane	ug/kg	-	-	-	-	-	5.3 U	4.7 U
1,2-Dichloropropane	ug/kg	-	-	-	-	-	5.3 U	4.7 U
1,3-Dichlorobenzene	ug/kg	-	-	-	-	-	5.3 U	4.7 U
1,4-Dichlorobenzene	ug/kg	-	-	-	-	-	5.3 U	4.7 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	-	-	-	-	-	4.0 J	4.7 J
2-Hexanone	ug/kg	-	-	-	-	-	21 U	19 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	-	-	-	-	-	21 U	19 U
Acetone	ug/kg	-	-	-	-	-	21 U	13 J
Benzene	ug/kg	-	-	-	-	-	5.3 U	4.7 U
Bromodichloromethane	ug/kg	-	-	-	-	-	5.3 U	4.7 U
Bromoform	ug/kg	-	-	-	-	-	5.3 U	4.7 U
Bromomethane (Methyl bromide)	ug/kg	-	-	-	-	-	5.3 U	4.7 U
Carbon disulfide	ug/kg	-	-	-	-	-	5.3 U	4.7 U
Carbon tetrachloride	ug/kg	-	-	-	-	-	5.3 U	4.7 U
Chlorobenzene	ug/kg	-	-	-	-	-	5.3 U	4.7 U
Chloroethane	ug/kg	-	-	-	-	-	5.3 U	4.7 U
Chloroform (Trichloromethane)	ug/kg	-	-	-	-	-	5.3 U	4.7 U
Chloromethane (Methyl chloride)	ug/kg	-	-	-	-	-	5.3 U	4.7 U
cis-1,2-Dichloroethene	ug/kg	-	-	-	-	-	5.3 U	4.7 U
cis-1,3-Dichloropropene	ug/kg	-	-	-	-	-	5.3 U	4.7 U
Cyclohexane	ug/kg	-	-	-	-	-	11 U	9.4 U
Dibromochloromethane	ug/kg	-	-	-	-	-	5.3 U	4.7 U
Dichlorodifluoromethane (CFC-12)	ug/kg	-	-	-	-	-	5.3 U	4.7 U
Ethylbenzene	ug/kg	-	-	-	-	-	5.3 U	4.7 U
Isopropyl benzene	ug/kg	-	-	-	-	-	5.3 U	4.7 U
Methyl acetate	ug/kg	-	-	-	-	-	11 U	9.4 U
Methyl cyclohexane	ug/kg	-	-	-	-	-	11 U	9.4 U
Methyl tert butyl ether (MTBE)	ug/kg	-	-	-	-	-	21 U	19 U
Methylene chloride	ug/kg	-	-	-	-	-	5.3 U	4.7 U
Styrene	ug/kg	-	-	-	-	-	5.3 U	4.7 U
Tetrachloroethene	ug/kg	-	-	-	-	-	5.3 U	4.7 U
Toluene	ug/kg	-	-	-	-	-	5.3 U	4.7 U
trans-1,2-Dichloroethene	ug/kg	-	-	-	-	-	5.3 U	4.7 U
trans-1,3-Dichloropropene	ug/kg	-	-	-	-	-	5.3 U	4.7 U
Trichloroethene	ug/kg	-	-	-	-	-	5.3 U	4.7 U

Table 1

Summary of Analytical Results
Soil/Fill Samples - EU1
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-122**	**SS-124**	**SS-153-AS**	**SS-154-AS**	**SS-155-AS**	**TT-14**	**TT-16**
Sample ID:		**SS-38443-112018-JC-122**	**SS-38443-112718-AS-124**	**SS-38443-112018-JC-153**	**SS-38443-112018-JC-154**	**SS-38443-112718-JC-155**	**S-38443-092508-KMV-015**	**S-38443-093008-KMV-033**
Sample Date:		**11/20/2018**	**11/27/2018**	**11/20/2018**	**11/20/2018**	**11/27/2018**	**9/25/2008**	**9/30/2008**
Sample Depth:		**0-2 ft BGS**	**0.17-1.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0.17-1.5 ft BGS**	**3 ft BGS**	**2 ft BGS**
Parameters	**Units**							
Trichlorofluoromethane (CFC-11)	ug/kg	-	-	-	-	-	5.3 U	4.7 U
Trifluorotrichloroethane (CFC-113)	ug/kg	-	-	-	-	-	5.3 U	4.7 U
Vinyl chloride	ug/kg	-	-	-	-	-	5.3 U	4.7 U
Xylenes (total)	ug/kg	-	-	-	-	-	11 U	9.4 U
Semi-Volatiles								
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	-	-	-	-	-	470 U	240 U
2,4,5-Trichlorophenol	ug/kg	-	-	-	-	-	700 U	360 U
2,4,6-Trichlorophenol	ug/kg	-	-	-	-	-	700 U	360 U
2,4-Dichlorophenol	ug/kg	-	-	-	-	-	700 U	360 U
2,4-Dimethylphenol	ug/kg	-	-	-	-	-	700 U	360 U
2,4-Dinitrophenol	ug/kg	-	-	-	-	-	1500 U	790 U
2,4-Dinitrotoluene	ug/kg	-	-	-	-	-	940 U	480 U
2,6-Dinitrotoluene	ug/kg	-	-	-	-	-	940 U	480 U
2-Chloronaphthalene	ug/kg	-	-	-	-	-	230 U	120 U
2-Chlorophenol	ug/kg	-	-	-	-	-	230 U	120 U
2-Methylnaphthalene	ug/kg	-	-	-	-	-	31 U	16 U
2-Methylphenol	ug/kg	-	-	-	-	-	940 U	480 U
2-Nitroaniline	ug/kg	-	-	-	-	-	940 U	480 U
2-Nitrophenol	ug/kg	-	-	-	-	-	230 U	120 U
3&4-Methylphenol	ug/kg	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/kg	-	-	-	-	-	470 U	240 U
3-Nitroaniline	ug/kg	-	-	-	-	-	940 U	480 U
4,6-Dinitro-2-methylphenol	ug/kg	-	-	-	-	-	700 U	360 U
4-Bromophenyl phenyl ether	ug/kg	-	-	-	-	-	230 U	120 U
4-Chloro-3-methylphenol	ug/kg	-	-	-	-	-	700 U	360 U
4-Chloroaniline	ug/kg	-	-	-	-	-	700 U	360 U
4-Chlorophenyl phenyl ether	ug/kg	-	-	-	-	-	230 U	120 U
4-Methylphenol	ug/kg	-	-	-	-	-	940 U	480 U
4-Nitroaniline	ug/kg	-	-	-	-	-	940 U	480 U
4-Nitrophenol	ug/kg	-	-	-	-	-	1500 U	790 U
Acenaphthene	ug/kg	-	-	-	-	-	200	45
Acenaphthylene	ug/kg	-	-	-	-	-	41	87
Acetophenone	ug/kg	-	-	-	-	-	470 U	240 U
Anthracene	ug/kg	-	-	-	-	-	570	190
Atrazine	ug/kg	-	-	-	-	-	940 U	480 U
Benzaldehyde	ug/kg	-	-	-	-	-	470 U	240 U
Benzo(a)anthracene	ug/kg	-	-	-	-	-	2000	700
Benzo(a)pyrene	ug/kg	-	-	-	-	-	1500	870
Benzo(b)fluoranthene	ug/kg	-	-	-	-	-	2000	1100
Benzo(g,h,i)perylene	ug/kg	-	-	-	-	-	900	630
Benzo(k)fluoranthene	ug/kg	-	-	-	-	-	960	400
Biphenyl (1,1-Biphenyl)	ug/kg	-	-	-	-	-	230 U	120 U
bis(2-Chloroethoxy)methane	ug/kg	-	-	-	-	-	470 U	240 U
bis(2-Chloroethyl)ether	ug/kg	-	-	-	-	-	470 U	240 U

Table 1

Summary of Analytical Results
Soil/Fill Samples - EU1
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-122**	**SS-124**	**SS-153-AS**	**SS-154-AS**	**SS-155-AS**	**TT-14**	**TT-16**
Sample ID:		**SS-38443-112018-JC-122**	**SS-38443-112718-AS-124**	**SS-38443-112018-JC-153**	**SS-38443-112018-JC-154**	**SS-38443-112718-JC-155**	**S-38443-092508-KMV-015**	**S-38443-093008-KMV-033**
Sample Date:		**11/20/2018**	**11/27/2018**	**11/20/2018**	**11/20/2018**	**11/27/2018**	**9/25/2008**	**9/30/2008**
Sample Depth:		**0-2 ft BGS**	**0.17-1.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0.17-1.5 ft BGS**	**3 ft BGS**	**2 ft BGS**
Parameters	**Units**							
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	-	-	-	-	-	99 J	120 U
Butyl benzylphthalate (BBP)	ug/kg	-	-	-	-	-	230 U	120 U
Caprolactam	ug/kg	-	-	-	-	-	1500 U	790 U
Carbazole	ug/kg	-	-	-	-	-	130 J	90 J
Chrysene	ug/kg	-	-	-	-	-	2000	820
Dibenz(a,h)anthracene	ug/kg	-	-	-	-	-	31 U	150
Dibenzofuran	ug/kg	-	-	-	-	-	100 J	120 U
Diethyl phthalate	ug/kg	-	-	-	-	-	230 U	120 U
Dimethyl phthalate	ug/kg	-	-	-	-	-	230 U	120 U
Di-n-butylphthalate (DBP)	ug/kg	-	-	-	-	-	230 U	120 U
Di-n-octyl phthalate (DnOP)	ug/kg	-	-	-	-	-	230 U	120 U
Fluoranthene	ug/kg	-	-	-	-	-	4600	1700
Fluorene	ug/kg	-	-	-	-	-	250	64
Hexachlorobenzene	ug/kg	-	-	-	-	-	31 U	16 U
Hexachlorobutadiene	ug/kg	-	-	-	-	-	230 U	120 U
Hexachlorocyclopentadiene	ug/kg	-	-	-	-	-	1500 U	790 U
Hexachloroethane	ug/kg	-	-	-	-	-	230 U	120 U
Indeno(1,2,3-cd)pyrene	ug/kg	-	-	-	-	-	810	540
Isophorone	ug/kg	-	-	-	-	-	230 U	120 U
Naphthalene	ug/kg	-	-	-	-	-	31 U	16 U
Nitrobenzene	ug/kg	-	-	-	-	-	470 U	240 U
N-Nitrosodi-n-propylamine	ug/kg	-	-	-	-	-	230 U	120 U
N-Nitrosodiphenylamine	ug/kg	-	-	-	-	-	230 U	120 U
Pentachlorophenol	ug/kg	-	-	-	-	-	700 U	360 U
Phenanthrene	ug/kg	-	-	-	-	-	1600	850
Phenol	ug/kg	-	-	-	-	-	230 U	120 U
Pyrene	ug/kg	-	-	-	-	-	3800	1400
Metals								
Aluminum	mg/kg	-	-	-	-	-	5370	5270
Antimony	mg/kg	-	-	-	-	-	7.0 UJ	7.2 UJ
Arsenic	mg/kg	-	-	-	-	-	6.5 J	5.5
Barium	mg/kg	-	-	-	-	-	71.7	53.8
Beryllium	mg/kg	-	-	-	-	-	0.22 J	0.24 J
Cadmium	mg/kg	-	-	-	-	-	0.39 J	0.29 J
Calcium	mg/kg	-	-	-	-	-	108000	91200 J
Chromium	mg/kg	-	-	-	-	-	11.9 J	7.8
Chromium III (trivalent)	mg/kg	-	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-	-
Cobalt	mg/kg	-	-	-	-	-	4.2 J	4.8 J
Copper	mg/kg	-	-	-	-	-	27.6	12.6
Iron	mg/kg	-	-	-	-	-	11700	11200
Lead	mg/kg	-	-	-	-	-	40.8	18.4 J
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-

Table 1

Summary of Analytical Results
Soil/Fill Samples - EU1
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-122**	**SS-124**	**SS-153-AS**	**SS-154-AS**	**SS-155-AS**	**TT-14**	**TT-16**
Sample ID:		**SS-38443-112018-JC-122**	**SS-38443-112718-AS-124**	**SS-38443-112018-JC-153**	**SS-38443-112018-JC-154**	**SS-38443-112718-JC-155**	**S-38443-092508-KMV-015**	**S-38443-093008-KMV-033**
Sample Date:		**11/20/2018**	**11/27/2018**	**11/20/2018**	**11/20/2018**	**11/27/2018**	**9/25/2008**	**9/30/2008**
Sample Depth:		**0-2 ft BGS**	**0.17-1.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0.17-1.5 ft BGS**	**3 ft BGS**	**2 ft BGS**
Parameters	**Units**							
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-
Magnesium	mg/kg	-	-	-	-	-	34900	44300
Manganese	mg/kg	-	-	-	-	-	295	624 J
Mercury	mg/kg	-	-	-	-	-	0.094 J	0.035 J
Nickel	mg/kg	-	-	-	-	-	12.9	10.7
Potassium	mg/kg	-	-	-	-	-	832	960 J
Selenium	mg/kg	-	-	-	-	-	29.3 U	30.0 U
Silver	mg/kg	-	-	-	-	-	1.2 U	1.2 U
Sodium	mg/kg	-	-	-	-	-	586 U	162 J
Thallium	mg/kg	-	-	-	-	-	0.17	0.14 U
Vanadium	mg/kg	-	-	-	-	-	15.1	14.5 J
Zinc	mg/kg	-	-	-	-	-	98.7 J	42.4 J
PCBs								
Aroclor-1016 (PCB-1016)	ug/kg	-	-	-	-	-	39 U	40 UJ
Aroclor-1221 (PCB-1221)	ug/kg	-	-	-	-	-	39 U	40 UJ
Aroclor-1232 (PCB-1232)	ug/kg	-	-	-	-	-	39 U	40 UJ
Aroclor-1242 (PCB-1242)	ug/kg	-	-	-	-	-	39 U	40 UJ
Aroclor-1248 (PCB-1248)	ug/kg	-	-	-	-	-	39 U	40 UJ
Aroclor-1254 (PCB-1254)	ug/kg	-	-	-	-	-	130	40 UJ
Aroclor-1260 (PCB-1260)	ug/kg	-	-	-	-	-	39 U	40 UJ
Pesticides								
4,4'-DDD	ug/kg	-	-	-	-	-	40 U	100 UJ
4,4'-DDE	ug/kg	-	-	-	-	-	12 J	100 U
4,4'-DDT	ug/kg	-	-	-	-	-	40 UJ	100 UJ
Aldrin	ug/kg	-	-	-	-	-	40 U	100 U
alpha-BHC	ug/kg	-	-	-	-	-	40 U	100 U
alpha-Chlordane	ug/kg	-	-	-	-	-	40 U	100 U
beta-BHC	ug/kg	-	-	-	-	-	40 U	100 U
delta-BHC	ug/kg	-	-	-	-	-	40 U	100 U
Dieldrin	ug/kg	-	-	-	-	-	40 U	100 U
Endosulfan I	ug/kg	-	-	-	-	-	40 U	100 U
Endosulfan II	ug/kg	-	-	-	-	-	40 U	100 U
Endosulfan sulfate	ug/kg	-	-	-	-	-	40 U	100 U
Endrin	ug/kg	-	-	-	-	-	40 U	100 U
Endrin aldehyde	ug/kg	-	-	-	-	-	40 U	100 U
Endrin ketone	ug/kg	-	-	-	-	-	40 U	100 U
gamma-BHC (lindane)	ug/kg	-	-	-	-	-	40 U	100 U
gamma-Chlordane	ug/kg	-	-	-	-	-	23 J	100 U
Heptachlor	ug/kg	-	-	-	-	-	40 U	100 U
Heptachlor epoxide	ug/kg	-	-	-	-	-	40 U	100 U
Methoxychlor	ug/kg	-	-	-	-	-	77 UJ	200 UJ
Toxaphene	ug/kg	-	-	-	-	-	1600 UJ	4000 UJ

Table 1

Summary of Analytical Results
Soil/Fill Samples - EU1
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-122**	**SS-124**	**SS-153-AS**	**SS-154-AS**	**SS-155-AS**	**TT-14**	**TT-16**
Sample ID:		**SS-38443-112018-JC-122**	**SS-38443-112718-AS-124**	**SS-38443-112018-JC-153**	**SS-38443-112018-JC-154**	**SS-38443-112718-JC-155**	**S-38443-092508-KMV-015**	**S-38443-093008-KMV-033**
Sample Date:		**11/20/2018**	**11/27/2018**	**11/20/2018**	**11/20/2018**	**11/27/2018**	**9/25/2008**	**9/30/2008**
Sample Depth:		**0-2 ft BGS**	**0.17-1.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0.17-1.5 ft BGS**	**3 ft BGS**	**2 ft BGS**
Parameters	**Units**							
Herbicides								
2,4,5-T	ug/kg	17 U	15 U	-	-	-	-	-
2,4,5-TP (Silvex)	ug/kg	18 U	16 U	-	-	-	23 U	24 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	64 U	55 U	-	-	-	94 UJ	96 U
Asbestos								
Asbestos	%	-	-	ND	ND	ND	-	-
General Chemistry								
Cyanide (total)	mg/kg	-	-	-	-	-	0.13 J	0.60 U
Total solids	%	-	-	-	-	-	85.4	83.3

Notes
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 2

Summary of Analytical Results
Soil/Fill Samples - EU2
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH98-18**	**BH99-18**	**BH100-18**	**SS-14**	**SS-15**	**SS-16**	**SS-17**
Sample ID:		**S-38443-121418-JC-150**	**S-38443-121418-JC-151**	**S-38443-121418-JC-152**	**SS-38443-112018-JC-014**	**SS-38443-112018-JC-015**	**SS-38443-112018-JC-016**	**SS-38443-112018-JC-017**
Sample Date:		**12/14/2018**	**12/14/2018**	**12/14/2018**	**11/20/2018**	**11/20/2018**	**11/20/2018**	**11/20/2018**
Sample Depth:		**2-5.5 ft BGS**	**6-9.5 ft BGS**	**4-7.5 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/kg	0.85 U	0.76 U	0.87 U	0.82 U	0.88 U	0.88 U	0.76 U
1,1,2,2-Tetrachloroethane	ug/kg	1.5 U	1.3 U	1.5 UJ	1.4 U	1.5 U	1.5 U	1.3 U
1,1,2-Trichloroethane	ug/kg	1.2 U	1.1 U	1.2 U	1.1 U	1.2 U	1.2 U	1.1 U
1,1-Dichloroethane	ug/kg	0.72 U	0.64 U	0.74 U	0.69 U	0.75 U	0.74 U	0.65 U
1,1-Dichloroethene	ug/kg	0.93 U	0.84 U	0.96 U	0.90 U	0.97 U	0.96 U	0.84 U
1,2,4-Trichlorobenzene	ug/kg	0.59 U	0.53 U	0.61 UJ	0.57 U	0.62 U	0.61 U	0.53 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	3.7 U	3.4 U	3.8 UJ	3.6 U	3.9 U	3.8 U	3.4 U
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	0.80 U	0.72 U	0.82 U	0.77 U	0.83 U	0.82 U	0.72 U
1,2-Dichlorobenzene	ug/kg	1.1 U	1.0 U	1.2 UJ	1.1 U	1.2 U	1.2 U	1.0 U
1,2-Dichloroethane	ug/kg	0.80 U	0.72 U	0.82 U	0.77 U	0.83 U	0.82 U	0.72 U
1,2-Dichloropropane	ug/kg	0.88 U	0.79 U	0.91 U	0.85 U	0.92 U	0.91 U	0.79 U
1,3-Dichlorobenzene	ug/kg	0.84 U	0.76 U	0.87 UJ	0.81 U	0.88 U	0.87 U	0.76 U
1,4-Dichlorobenzene	ug/kg	0.91 U	0.82 U	0.94 UJ	0.88 U	0.95 U	0.94 U	0.82 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	3.7 U	3.3 U	7.2 J	3.5 U	3.8 U	3.8 U	3.3 U
2-Hexanone	ug/kg	4.2 U	3.8 U	4.3 U	4.1 U	4.4 U	4.4 U	3.8 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	3.8 U	3.4 U	4.0 U	3.7 U	4.0 U	4.0 U	3.5 U
Acetone	ug/kg	22 U	23	22 U	21 U	23 U	22 U	20 U
Benzene	ug/kg	0.72 U	0.65 U	0.74 U	0.69 U	0.75 U	0.74 U	0.65 U
Bromodichloromethane	ug/kg	0.70 U	0.63 U	0.72 U	0.68 U	0.73 U	0.72 U	0.63 U
Bromoform	ug/kg	2.5 U	2.2 U	2.6 U	2.4 U	2.6 U	2.6 U	2.2 U
Bromomethane (Methyl bromide)	ug/kg	1.0 UJ	0.92 UJ	1.1 UJ	0.98 U	1.1 U	1.1 UJ	0.92 UJ
Carbon disulfide	ug/kg	1.2 U	1.1 U	1.2 U	1.2 U	1.3 U	1.2 U	1.1 U
Carbon tetrachloride	ug/kg	3.4 U	3.0 U	3.5 U	3.2 U	3.5 U	3.5 U	3.0 U
Chlorobenzene	ug/kg	0.95 U	0.85 U	0.97 U	0.91 U	0.99 U	0.98 U	0.85 U
Chloroethane	ug/kg	1.3 U	1.1 U	1.3 U	1.2 U	1.3 U	1.3 U	1.1 U
Chloroform (Trichloromethane)	ug/kg	0.81 U	0.73 U	0.84 U	0.78 U	0.85 U	0.84 U	0.73 U
Chloromethane (Methyl chloride)	ug/kg	1.1 U	0.97 U	1.1 U	1.0 U	1.1 U	1.1 U	0.97 U
cis-1,2-Dichloroethene	ug/kg	0.67 U	0.60 U	0.69 U	0.65 U	0.70 U	0.69 U	0.61 U
cis-1,3-Dichloropropene	ug/kg	1.5 U	1.3 U	1.5 U	1.4 U	1.5 U	1.5 U	1.3 U
Cyclohexane	ug/kg	1.4 U	1.3 U	1.5 U	1.4 U	1.5 U	1.5 U	1.3 U
Dibromochloromethane	ug/kg	2.9 U	2.6 U	3.0 U	2.8 U	3.0 U	3.0 U	2.6 U
Dichlorodifluoromethane (CFC-12)	ug/kg	0.98 U	0.88 U	1.0 U	0.94 U	1.0 U	1.0 U	0.88 U
Ethylbenzene	ug/kg	1.1 U	0.97 U	1.1 U	1.0 U	1.1 U	1.1 U	0.98 U
Isopropyl benzene	ug/kg	0.86 U	0.77 U	0.89 U	0.83 U	0.90 U	0.89 U	0.78 U
Methyl acetate	ug/kg	3.5 U	3.2 U	3.6 U	3.4 U	3.7 U	3.6 U	3.2 U
Methyl cyclohexane	ug/kg	1.3 U	1.1 U	1.3 U	1.2 U	1.3 U	1.3 U	1.1 U
Methyl tert butyl ether (MTBE)	ug/kg	0.85 U	0.76 U	0.87 U	0.82 U	0.88 U	0.88 U	0.76 U
Methylene chloride	ug/kg	12 U	11 U	13 U	12 U	13 U	13 U	11 U
Styrene	ug/kg	1.2 U	1.1 U	1.2 U	1.2 U	1.2 U	1.2 U	1.1 U
Tetrachloroethene	ug/kg	0.75 U	0.68 U	0.78 U	0.73 U	0.79 U	0.78 U	0.68 U
Toluene	ug/kg	0.80 U	1.1 J	0.82 U	0.77 U	0.83 U	0.82 U	0.72 U
trans-1,2-Dichloroethene	ug/kg	0.48 U	0.43 U	0.49 U	0.46 U	0.50 U	0.50 U	0.43 U
trans-1,3-Dichloropropene	ug/kg	1.1 U	0.96 U	1.1 U	1.0 U	1.1 U	1.1 U	0.96 U
Trichloroethene	ug/kg	0.65 U	0.59 U	0.67 U	0.63 U	0.68 U	0.68 U	0.59 U

Table 2

Summary of Analytical Results
Soil/Fill Samples - EU2
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH98-18**	**BH99-18**	**BH100-18**	**SS-14**	**SS-15**	**SS-16**	**SS-17**
Sample ID:		**S-38443-121418-JC-150**	**S-38443-121418-JC-151**	**S-38443-121418-JC-152**	**SS-38443-112018-JC-014**	**SS-38443-112018-JC-015**	**SS-38443-112018-JC-016**	**SS-38443-112018-JC-017**
Sample Date:		**12/14/2018**	**12/14/2018**	**12/14/2018**	**11/20/2018**	**11/20/2018**	**11/20/2018**	**11/20/2018**
Sample Depth:		**2-5.5 ft BGS**	**6-9.5 ft BGS**	**4-7.5 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**							
Trichlorofluoromethane (CFC-11)	ug/kg	1.1 U	1.0 U	1.1 U	1.1 U	1.2 U	1.2 U	1.0 U
Trifluorotrichloroethane (CFC-113)	ug/kg	1.3 U	1.2 U	1.4 U	1.3 U	1.4 U	1.4 U	1.2 U
Vinyl chloride	ug/kg	0.87 U	0.78 U	0.89 U	0.83 U	0.90 U	0.89 U	0.78 U
Xylenes (total)	ug/kg	1.6 U	1.5 U	1.7 U	1.6 U	1.7 U	1.7 U	1.5 U
Semi-Volatiles								
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	12 U	11 U	11 U	12 U	13 U	12 U	12 U
2,4,5-Trichlorophenol	ug/kg	80 U	74 U	78 U	82 U	88 U	81 U	82 U
2,4,6-Trichlorophenol	ug/kg	74 U	69 U	73 U	76 U	82 U	75 U	76 U
2,4-Dichlorophenol	ug/kg	51 U	47 U	50 U	52 U	56 U	51 U	52 U
2,4-Dimethylphenol	ug/kg	46 U	43 U	45 U	48 U	51 U	47 U	48 U
2,4-Dinitrophenol	ug/kg	160 U	150 U	160 U	170 U	180 U	170 U	170 U
2,4-Dinitrotoluene	ug/kg	72 U	66 U	70 U	74 U	79 U	72 U	74 U
2,6-Dinitrotoluene	ug/kg	65 U	60 U	64 U	67 U	72 U	65 U	67 U
2-Chloronaphthalene	ug/kg	16 U	15 U	16 U	17 U	18 U	16 U	17 U
2-Chlorophenol	ug/kg	12 U	11 U	11 U	12 U	13 U	12 U	12 U
2-Methylnaphthalene	ug/kg	2.3 U	2.1 U	23	2.3 U	2.5 U	2.3 U	2.3 U
2-Methylphenol	ug/kg	36 U	33 U	35 U	37 U	40 U	36 U	37 U
2-Nitroaniline	ug/kg	46 U	43 U	45 U	48 U	51 U	47 U	48 U
2-Nitrophenol	ug/kg	15 U	14 U	15 U	15 U	17 U	15 U	15 U
3&4-Methylphenol	ug/kg	33 U	31 U	33 U	35 U	37 U	34 U	35 U
3,3'-Dichlorobenzidine	ug/kg	50 U	46 U	49 U	51 U	55 U	50 U	51 U
3-Nitroaniline	ug/kg	57 U	53 U	56 U	58 U	63 U	57 U	58 U
4,6-Dinitro-2-methylphenol	ug/kg	92 U	86 U	91 U	95 U	100 U	93 U	95 U
4-Bromophenyl phenyl ether	ug/kg	16 U	15 U	16 U	17 U	18 U	16 U	17 U
4-Chloro-3-methylphenol	ug/kg	52 U	48 U	51 U	54 U	58 U	53 U	54 U
4-Chloroaniline	ug/kg	35 U	32 U	34 U	36 U	38 U	35 U	36 U
4-Chlorophenyl phenyl ether	ug/kg	16 U	15 U	16 U	17 U	18 U	16 U	17 U
4-Nitroaniline	ug/kg	69 U	64 U	68 U	72 U	77 U	70 U	71 U
4-Nitrophenol	ug/kg	110 U	100 U	110 U	110 U	120 U	110 U	110 U
Acenaphthene	ug/kg	3.3 U	3.1 U	3.3 U	3.4 U	3.7 U	3.3 U	3.4 U
Acenaphthylene	ug/kg	4.6 U	4.3 U	4.6 U	4.8 U	5.1 U	4.7 U	4.8 U
Acetophenone	ug/kg	13 U	12 U	13 U	13 U	14 U	13 U	13 U
Anthracene	ug/kg	4.2 J	2.6 U	2.7 U	2.9 U	3.1 U	2.8 U	2.9 U
Atrazine	ug/kg	42 U	39 U	41 U	43 U	46 U	42 U	43 U
Benzaldehyde	ug/kg	27 U	25 U	26 U	27 U	29 U	27 U	27 U
Benzo(a)anthracene	ug/kg	24	3.7 U	3.9 U	4.1 U	11 J	9.6 J	17 J
Benzo(a)pyrene	ug/kg	29	16	31	11 U	15 J	12 J	22
Benzo(b)fluoranthene	ug/kg	46	7.0 U	40	7.7 U	23	18	28
Benzo(g,h,i)perylene	ug/kg	8.2 U	7.6 U	33	8.5 U	15 J	9.6 J	8.7 J
Benzo(k)fluoranthene	ug/kg	17	7.4 U	7.9 U	8.3 U	8.9 U	8.1 U	11 J
Biphenyl (1,1-Biphenyl)	ug/kg	20 U	18 U	19 U	20 U	22 U	20 U	20 U
bis(2-Chloroethoxy)methane	ug/kg	14 U	13 U	14 U	14 U	15 U	14 U	14 U
bis(2-Chloroethyl)ether	ug/kg	14 U	13 U	14 U	14 U	15 U	14 U	14 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	59 U	55 U	58 U	61 U	65 U	60 U	61 U

Table 2

Summary of Analytical Results
Soil/Fill Samples - EU2
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH98-18**	**BH99-18**	**BH100-18**	**SS-14**	**SS-15**	**SS-16**	**SS-17**
Sample ID:		**S-38443-121418-JC-150**	**S-38443-121418-JC-151**	**S-38443-121418-JC-152**	**SS-38443-112018-JC-014**	**SS-38443-112018-JC-015**	**SS-38443-112018-JC-016**	**SS-38443-112018-JC-017**
Sample Date:		**12/14/2018**	**12/14/2018**	**12/14/2018**	**11/20/2018**	**11/20/2018**	**11/20/2018**	**11/20/2018**
Sample Depth:		**2-5.5 ft BGS**	**6-9.5 ft BGS**	**4-7.5 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**							
Butyl benzylphthalate (BBP)	ug/kg	25 U	24 U	25 U	26 U	28 U	26 U	26 U
Caprolactam	ug/kg	87 U	80 U	85 U	89 U	96 U	88 U	89 U
Carbazole	ug/kg	22 U	20 U	22 U	23 U	24 U	22 U	23 U
Chrysene	ug/kg	28	1.6 U	1.7 U	1.8 U	17 J	17 J	20
Dibenz(a,h)anthracene	ug/kg	8.0 U	7.4 U	7.9 U	8.3 U	8.9 U	8.1 U	8.2 U
Dibenzofuran	ug/kg	15 U	14 U	15 U	15 U	17 U	15 U	15 U
Diethyl phthalate	ug/kg	36 U	33 U	35 U	37 U	40 U	36 U	37 U
Dimethyl phthalate	ug/kg	16 U	15 U	16 U	17 U	18 U	16 U	17 U
Di-n-butylphthalate (DBP)	ug/kg	25 U	24 U	25 U	26 U	28 U	26 U	26 U
Di-n-octyl phthalate (DnOP)	ug/kg	32 U	30 U	32 U	33 U	36 U	33 U	33 U
Fluoranthene	ug/kg	47	13 J	28	9.8 J	26	22	40
Fluorene	ug/kg	3.2 U	2.9 U	3.1 U	3.3 U	3.5 U	3.2 U	3.3 U
Hexachlorobenzene	ug/kg	3.3 U	3.1 UJ	3.2 UJ	3.4 U	3.7 U	3.3 U	3.4 U
Hexachlorobutadiene	ug/kg	14 U	13 U	14 U	14 U	15 U	14 U	14 U
Hexachlorocyclopentadiene	ug/kg	72 U	66 UJ	70 UJ	74 U	79 U	72 U	74 U
Hexachloroethane	ug/kg	10 U	9.6 U	10 U	11 U	12 U	11 U	11 U
Indeno(1,2,3-cd)pyrene	ug/kg	8.5 U	7.9 U	29	8.8 U	9.4 U	8.6 U	8.8 J
Isophorone	ug/kg	14 U	13 U	14 U	14 U	15 U	14 U	14 U
Naphthalene	ug/kg	2.8 U	2.6 U	17	2.9 U	3.1 U	2.8 U	2.9 U
Nitrobenzene	ug/kg	15 U	14 U	15 U	15 U	17 U	15 U	15 U
N-Nitrosodi-n-propylamine	ug/kg	13 U	12 U	13 U	13 U	14 U	13 U	13 U
N-Nitrosodiphenylamine	ug/kg	14 U	13 U	14 U	14 U	15 U	14 U	14 U
Pentachlorophenol	ug/kg	67 U	62 U	66 U	69 U	74 U	68 U	69 U
Phenanthrene	ug/kg	29	2.4 U	2.5 U	2.7 U	13 J	8.9 J	21
Phenol	ug/kg	9.2 U	8.6 U	9.1 U	9.5 U	10 U	9.3 U	9.5 U
Pyrene	ug/kg	38	16	34	11 J	22	18	34
Metals								
Aluminum	mg/kg	9400	8500	14000	12000	17000	14000	14000
Antimony	mg/kg	0.56	0.18 J	0.38	1.5	0.79	0.99	0.27 J
Arsenic	mg/kg	7.8	7.2	10	10	12	8.3	14
Barium	mg/kg	94	72	100	170	120	180	95
Beryllium	mg/kg	0.48	0.42	0.71	0.51	0.67	0.51	0.59
Cadmium	mg/kg	0.26	0.21	0.48	0.24	0.35	0.19 J	0.20 J
Calcium	mg/kg	47000	56000	29000	12000	15000	32000	3600
Chromium	mg/kg	16	13	20	18	24	19	19
Chromium III (trivalent)	mg/kg	16	13	20	18	24	19	19
Chromium VI (hexavalent)	mg/kg	0.29 J	0.26 U	0.28 U	0.29 J	0.62 U	0.56 U	0.57 U
Cobalt	mg/kg	6.5	5.6	8.8	8.2	8.2	7.5	8.4
Copper	mg/kg	15	12	31	19	26	16	20
Iron	mg/kg	17000	15000	22000	22000	26000	20000	25000
Lead	mg/kg	20	14	46	19	30	15	16
Lead - coarse fraction	mg/kg	-	-	-	-	17 J	-	-
Lead - fine fraction	mg/kg	-	-	-	-	25	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	18	-	-

Table 2

Summary of Analytical Results
Soil/Fill Samples - EU2
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH98-18**	**BH99-18**	**BH100-18**	**SS-14**	**SS-15**	**SS-16**	**SS-17**
Sample ID:		**S-38443-121418-JC-150**	**S-38443-121418-JC-151**	**S-38443-121418-JC-152**	**SS-38443-112018-JC-014**	**SS-38443-112018-JC-015**	**SS-38443-112018-JC-016**	**SS-38443-112018-JC-017**
Sample Date:		**12/14/2018**	**12/14/2018**	**12/14/2018**	**11/20/2018**	**11/20/2018**	**11/20/2018**	**11/20/2018**
Sample Depth:		**2-5.5 ft BGS**	**6-9.5 ft BGS**	**4-7.5 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**							
Magnesium	mg/kg	27000	33000	11000	7200	8500	17000	3300
Manganese	mg/kg	610	450	510	730	670	660	580
Mercury	mg/kg	0.025 J	0.031 J	0.045 J	0.041 J	0.067 J	0.037 J	0.035 J
Nickel	mg/kg	15	13	19	19	23	20	19
Potassium	mg/kg	850	920	1300	1200	1900	1100	1300
Selenium	mg/kg	0.27 J	0.16 J	0.43 J	1.1	1.6	1.2	1.2
Silver	mg/kg	0.052 J	0.044 J	0.10 J	0.055 J	0.12 J	0.043 J	0.038 J
Sodium	mg/kg	85 J	110 J	67 J	57 U	60 U	64 J	58 U
Thallium	mg/kg	0.071 J	0.071 J	0.10	0.20 J	0.26	0.21	0.24
Vanadium	mg/kg	27	25	35	33	43	34	35
Zinc	mg/kg	57	44	120	81	110	55	58
PCBs								
Aroclor-1016 (PCB-1016)	ug/kg	25 U	24 U	26 U	26 U	28 U	25 U	26 U
Aroclor-1221 (PCB-1221)	ug/kg	27 U	26 U	28 U	29 U	30 U	28 U	28 U
Aroclor-1232 (PCB-1232)	ug/kg	26 U	25 U	27 U	28 U	29 U	26 U	27 U
Aroclor-1242 (PCB-1242)	ug/kg	21 U	21 U	22 U	23 U	24 U	22 U	22 U
Aroclor-1248 (PCB-1248)	ug/kg	27 U	26 U	28 U	29 U	30 U	28 U	28 U
Aroclor-1254 (PCB-1254)	ug/kg	26 U	25 U	27 U	28 U	29 U	26 U	27 U
Aroclor-1260 (PCB-1260)	ug/kg	25 U	24 U	26 U	26 U	28 U	25 U	26 U
Pesticides								
4,4'-DDD	ug/kg	1.7 U	1.6 U	1.7 U	1.7 U	1.9 U	1.8 U	8.6 U
4,4'-DDE	ug/kg	1.8 U	1.6 U	1.8 U	1.8 U	2.0 U	1.8 U	8.8 U
4,4'-DDT	ug/kg	1.3 U	1.5 J	1.3 U	1.3 U	3.5 J	1.3 U	6.6 U
Aldrin	ug/kg	0.90 U	0.83 U	0.90 U	0.90 U	1.0 U	0.91 U	4.5 U
alpha-BHC	ug/kg	1.1 U	0.98 U	1.1 U	1.1 U	1.2 U	1.1 U	5.3 U
alpha-Chlordane	ug/kg	1.8 U	1.6 U	1.7 U	1.8 U	1.9 U	1.8 U	8.7 U
beta-BHC	ug/kg	2.0 U	1.9 U	2.0 U	2.0 U	2.2 U	2.0 U	10 U
delta-BHC	ug/kg	2.0 U	1.8 U	2.0 U	2.0 U	2.2 U	2.0 U	9.8 U
Dieldrin	ug/kg	1.3 U	1.2 U	1.3 U	1.3 U	1.4 U	1.3 U	6.4 U
Endosulfan I	ug/kg	1.4 U	1.3 U	1.4 U	1.4 U	1.6 U	1.4 U	7.0 U
Endosulfan II	ug/kg	1.7 U	1.6 U	1.7 U	1.7 U	1.9 U	1.8 U	8.6 U
Endosulfan sulfate	ug/kg	1.5 U	1.4 U	1.5 U	1.5 U	1.7 U	1.5 U	7.4 U
Endrin	ug/kg	2.2 U	2.1 U	2.2 U	2.2 U	2.5 U	2.2 U	11 U
Endrin aldehyde	ug/kg	1.5 U	1.4 U	1.5 U	1.5 U	1.7 U	1.5 U	7.6 U
Endrin ketone	ug/kg	1.0 U	0.96 U	1.0 U	1.0 U	1.2 U	1.1 U	5.2 U
gamma-BHC (lindane)	ug/kg	2.1 U	1.9 U	2.1 U	2.1 U	2.3 U	2.1 U	10 U
gamma-Chlordane	ug/kg	1.4 U	1.3 U	1.4 U	1.4 U	1.6 U	1.5 U	7.1 U
Heptachlor	ug/kg	1.9 U	1.7 U	1.8 U	1.9 U	2.1 U	1.9 U	9.2 U
Heptachlor epoxide	ug/kg	1.7 U	1.6 U	1.7 U	1.7 U	1.9 U	1.7 U	8.4 U
Methoxychlor	ug/kg	7.7 U	7.1 U	7.6 U	7.7 U	8.5 U	7.8 U	38 UJ
Toxaphene	ug/kg	29 U	27 U	29 U	29 U	32 U	30 U	150 U

Table 2

Summary of Analytical Results
Soil/Fill Samples - EU2
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH98-18**	**BH99-18**	**BH100-18**	**SS-14**	**SS-15**	**SS-16**	**SS-17**
Sample ID:		**S-38443-121418-JC-150**	**S-38443-121418-JC-151**	**S-38443-121418-JC-152**	**SS-38443-112018-JC-014**	**SS-38443-112018-JC-015**	**SS-38443-112018-JC-016**	**SS-38443-112018-JC-017**
Sample Date:		**12/14/2018**	**12/14/2018**	**12/14/2018**	**11/20/2018**	**11/20/2018**	**11/20/2018**	**11/20/2018**
Sample Depth:		**2-5.5 ft BGS**	**6-9.5 ft BGS**	**4-7.5 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**							
Herbicides								
2,4,5-T	ug/kg	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/kg	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	-	-	-	-	-	-	-
Asbestos								
Asbestos	%	-	-	-	-	-	-	-
General Chemistry								
Cyanide (total)	mg/kg	0.24 U	0.21 U	0.21 U	0.23 U	0.26 U	0.21 U	0.22 U

Notes
J - Estimated concentration.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 2

Summary of Analytical Results
Soil/Fill Samples - EU2
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-18**	**SS-148**	**SS-152**	**SS-156-AS**	**SS-157-AS**
Sample ID:		**SS-38443-112018-JC-018**	**SS-38443-112018-JC-148**	**SS-38443-112018-JC-152**	**SS-38443-112018-JC-156**	**SS-38443-112018-JC-157**
Sample Date:		**11/20/2018**	**11/20/2018**	**11/20/2018**	**11/20/2018**	**11/20/2018**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**
Parameters	**Units**					
Volatiles						
1,1,1-Trichloroethane	ug/kg	0.78 U	-	-	-	-
1,1,2,2-Tetrachloroethane	ug/kg	1.4 U	-	-	-	-
1,1,2-Trichloroethane	ug/kg	1.1 U	-	-	-	-
1,1-Dichloroethane	ug/kg	0.66 U	-	-	-	-
1,1-Dichloroethene	ug/kg	0.86 U	-	-	-	-
1,2,4-Trichlorobenzene	ug/kg	0.55 U	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	3.4 U	-	-	-	-
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	0.74 U	-	-	-	-
1,2-Dichlorobenzene	ug/kg	1.1 U	-	-	-	-
1,2-Dichloroethane	ug/kg	0.74 U	-	-	-	-
1,2-Dichloropropane	ug/kg	0.81 U	-	-	-	-
1,3-Dichlorobenzene	ug/kg	0.78 U	-	-	-	-
1,4-Dichlorobenzene	ug/kg	0.84 U	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	3.4 U	-	-	-	-
2-Hexanone	ug/kg	3.9 U	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	3.5 U	-	-	-	-
Acetone	ug/kg	20 U	-	-	-	-
Benzene	ug/kg	0.67 U	-	-	-	-
Bromodichloromethane	ug/kg	0.65 U	-	-	-	-
Bromoform	ug/kg	2.3 U	-	-	-	-
Bromomethane (Methyl bromide)	ug/kg	0.94 UJ	-	-	-	-
Carbon disulfide	ug/kg	1.1 U	-	-	-	-
Carbon tetrachloride	ug/kg	3.1 U	-	-	-	-
Chlorobenzene	ug/kg	0.87 U	-	-	-	-
Chloroethane	ug/kg	1.2 U	-	-	-	-
Chloroform (Trichloromethane)	ug/kg	0.75 U	-	-	-	-
Chloromethane (Methyl chloride)	ug/kg	1.0 U	-	-	-	-
cis-1,2-Dichloroethene	ug/kg	0.62 U	-	-	-	-
cis-1,3-Dichloropropene	ug/kg	1.4 U	-	-	-	-
Cyclohexane	ug/kg	1.3 U	-	-	-	-
Dibromochloromethane	ug/kg	2.7 U	-	-	-	-
Dichlorodifluoromethane (CFC-12)	ug/kg	0.90 U	-	-	-	-
Ethylbenzene	ug/kg	1.0 U	-	-	-	-
Isopropyl benzene	ug/kg	0.79 U	-	-	-	-
Methyl acetate	ug/kg	3.2 U	-	-	-	-
Methyl cyclohexane	ug/kg	1.2 U	-	-	-	-
Methyl tert butyl ether (MTBE)	ug/kg	0.78 U	-	-	-	-
Methylene chloride	ug/kg	11 U	-	-	-	-
Styrene	ug/kg	1.1 U	-	-	-	-
Tetrachloroethene	ug/kg	0.70 U	-	-	-	-
Toluene	ug/kg	0.74 U	-	-	-	-
trans-1,2-Dichloroethene	ug/kg	0.44 U	-	-	-	-
trans-1,3-Dichloropropene	ug/kg	0.99 U	-	-	-	-
Trichloroethene	ug/kg	0.60 U	-	-	-	-

Table 2

Summary of Analytical Results
Soil/Fill Samples - EU2
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-18**	**SS-148**	**SS-152**	**SS-156-AS**	**SS-157-AS**
Sample ID:		**SS-38443-112018-JC-018**	**SS-38443-112018-JC-148**	**SS-38443-112018-JC-152**	**SS-38443-112018-JC-156**	**SS-38443-112018-JC-157**
Sample Date:		**11/20/2018**	**11/20/2018**	**11/20/2018**	**11/20/2018**	**11/20/2018**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**
Parameters	**Units**					
Trichlorofluoromethane (CFC-11)	ug/kg	1.0 U	-	-	-	-
Trifluorotrichloroethane (CFC-113)	ug/kg	1.2 U	-	-	-	-
Vinyl chloride	ug/kg	0.80 U	-	-	-	-
Xylenes (total)	ug/kg	1.5 U	-	-	-	-
Semi-Volatiles						
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	12 U	-	-	-	-
2,4,5-Trichlorophenol	ug/kg	85 U	-	-	-	-
2,4,6-Trichlorophenol	ug/kg	79 U	-	-	-	-
2,4-Dichlorophenol	ug/kg	54 U	-	-	-	-
2,4-Dimethylphenol	ug/kg	49 U	-	-	-	-
2,4-Dinitrophenol	ug/kg	170 U	-	-	-	-
2,4-Dinitrotoluene	ug/kg	76 U	-	-	-	-
2,6-Dinitrotoluene	ug/kg	69 U	-	-	-	-
2-Chloronaphthalene	ug/kg	17 U	-	-	-	-
2-Chlorophenol	ug/kg	12 U	-	-	-	-
2-Methylnaphthalene	ug/kg	2.4 U	-	-	-	-
2-Methylphenol	ug/kg	38 U	-	-	-	-
2-Nitroaniline	ug/kg	49 U	-	-	-	-
2-Nitrophenol	ug/kg	16 U	-	-	-	-
3&4-Methylphenol	ug/kg	36 U	-	-	-	-
3,3'-Dichlorobenzidine	ug/kg	53 U	-	-	-	-
3-Nitroaniline	ug/kg	60 U	-	-	-	-
4,6-Dinitro-2-methylphenol	ug/kg	98 U	-	-	-	-
4-Bromophenyl phenyl ether	ug/kg	17 U	-	-	-	-
4-Chloro-3-methylphenol	ug/kg	55 U	-	-	-	-
4-Chloroaniline	ug/kg	37 U	-	-	-	-
4-Chlorophenyl phenyl ether	ug/kg	17 U	-	-	-	-
4-Nitroaniline	ug/kg	74 U	-	-	-	-
4-Nitrophenol	ug/kg	120 U	-	-	-	-
Acenaphthene	ug/kg	3.5 U	-	-	-	-
Acenaphthylene	ug/kg	4.9 U	-	-	-	-
Acetophenone	ug/kg	14 U	-	-	-	-
Anthracene	ug/kg	3.0 U	-	-	-	-
Atrazine	ug/kg	44 U	-	-	-	-
Benzaldehyde	ug/kg	28 U	-	-	-	-
Benzo(a)anthracene	ug/kg	4.2 U	-	-	-	-
Benzo(a)pyrene	ug/kg	11 U	-	-	-	-
Benzo(b)fluoranthene	ug/kg	8.8 J	-	-	-	-
Benzo(g,h,i)perylene	ug/kg	8.7 U	-	-	-	-
Benzo(k)fluoranthene	ug/kg	8.5 U	-	-	-	-
Biphenyl (1,1-Biphenyl)	ug/kg	21 U	-	-	-	-
bis(2-Chloroethoxy)methane	ug/kg	15 U	-	-	-	-
bis(2-Chloroethyl)ether	ug/kg	15 U	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	63 U	-	-	-	-

Table 2

Summary of Analytical Results
Soil/Fill Samples - EU2
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-18**	**SS-148**	**SS-152**	**SS-156-AS**	**SS-157-AS**
Sample ID:		**SS-38443-112018-JC-018**	**SS-38443-112018-JC-148**	**SS-38443-112018-JC-152**	**SS-38443-112018-JC-156**	**SS-38443-112018-JC-157**
Sample Date:		**11/20/2018**	**11/20/2018**	**11/20/2018**	**11/20/2018**	**11/20/2018**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**
Parameters	**Units**					
Butyl benzylphthalate (BBP)	ug/kg	27 U	-	-	-	-
Caprolactam	ug/kg	92 U	-	-	-	-
Carbazole	ug/kg	23 U	-	-	-	-
Chrysene	ug/kg	1.8 U	-	-	-	-
Dibenz(a,h)anthracene	ug/kg	8.5 U	-	-	-	-
Dibenzofuran	ug/kg	16 U	-	-	-	-
Diethyl phthalate	ug/kg	38 U	-	-	-	-
Dimethyl phthalate	ug/kg	17 U	-	-	-	-
Di-n-butylphthalate (DBP)	ug/kg	27 U	-	-	-	-
Di-n-octyl phthalate (DnOP)	ug/kg	34 U	-	-	-	-
Fluoranthene	ug/kg	11 J	-	-	-	-
Fluorene	ug/kg	3.4 U	-	-	-	-
Hexachlorobenzene	ug/kg	3.5 U	-	-	-	-
Hexachlorobutadiene	ug/kg	15 U	-	-	-	-
Hexachlorocyclopentadiene	ug/kg	76 U	-	-	-	-
Hexachloroethane	ug/kg	11 U	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/kg	9.0 U	-	-	-	-
Isophorone	ug/kg	15 U	-	-	-	-
Naphthalene	ug/kg	3.0 U	-	-	-	-
Nitrobenzene	ug/kg	16 U	-	-	-	-
N-Nitrosodi-n-propylamine	ug/kg	14 U	-	-	-	-
N-Nitrosodiphenylamine	ug/kg	15 U	-	-	-	-
Pentachlorophenol	ug/kg	71 U	-	-	-	-
Phenanthrene	ug/kg	4.4 J	-	-	-	-
Phenol	ug/kg	14 J	-	-	-	-
Pyrene	ug/kg	9.1 J	-	-	-	-
Metals						
Aluminum	mg/kg	13000	-	-	-	-
Antimony	mg/kg	0.36 J	-	-	-	-
Arsenic	mg/kg	10	-	-	-	-
Barium	mg/kg	90	-	-	-	-
Beryllium	mg/kg	0.53	-	-	-	-
Cadmium	mg/kg	0.33	-	-	-	-
Calcium	mg/kg	11000	-	-	-	-
Chromium	mg/kg	19	-	-	-	-
Chromium III (trivalent)	mg/kg	19	-	-	-	-
Chromium VI (hexavalent)	mg/kg	0.59 U	-	-	-	-
Cobalt	mg/kg	7.9	-	-	-	-
Copper	mg/kg	21	-	-	-	-
Iron	mg/kg	22000	-	-	-	-
Lead	mg/kg	24	-	-	-	-
Lead - coarse fraction	mg/kg	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-

Table 2

Summary of Analytical Results
Soil/Fill Samples - EU2
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-18**	**SS-148**	**SS-152**	**SS-156-AS**	**SS-157-AS**
Sample ID:		**SS-38443-112018-JC-018**	**SS-38443-112018-JC-148**	**SS-38443-112018-JC-152**	**SS-38443-112018-JC-156**	**SS-38443-112018-JC-157**
Sample Date:		**11/20/2018**	**11/20/2018**	**11/20/2018**	**11/20/2018**	**11/20/2018**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**
Parameters	**Units**					
Magnesium	mg/kg	7100	-	-	-	-
Manganese	mg/kg	590	-	-	-	-
Mercury	mg/kg	0.051 J	-	-	-	-
Nickel	mg/kg	19	-	-	-	-
Potassium	mg/kg	1500	-	-	-	-
Selenium	mg/kg	1.3	-	-	-	-
Silver	mg/kg	0.083 J	-	-	-	-
Sodium	mg/kg	57 U	-	-	-	-
Thallium	mg/kg	0.23	-	-	-	-
Vanadium	mg/kg	35	-	-	-	-
Zinc	mg/kg	100	-	-	-	-
PCBs						
Aroclor-1016 (PCB-1016)	ug/kg	26 U	-	-	-	-
Aroclor-1221 (PCB-1221)	ug/kg	28 U	-	-	-	-
Aroclor-1232 (PCB-1232)	ug/kg	27 U	-	-	-	-
Aroclor-1242 (PCB-1242)	ug/kg	22 U	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/kg	28 U	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/kg	27 U	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/kg	26 U	-	-	-	-
Pesticides						
4,4'-DDD	ug/kg	1.8 U	-	-	-	-
4,4'-DDE	ug/kg	1.9 U	-	-	-	-
4,4'-DDT	ug/kg	1.4 U	-	-	-	-
Aldrin	ug/kg	0.96 U	-	-	-	-
alpha-BHC	ug/kg	1.1 U	-	-	-	-
alpha-Chlordane	ug/kg	1.9 U	-	-	-	-
beta-BHC	ug/kg	2.2 U	-	-	-	-
delta-BHC	ug/kg	2.1 U	-	-	-	-
Dieldrin	ug/kg	1.4 U	-	-	-	-
Endosulfan I	ug/kg	1.5 U	-	-	-	-
Endosulfan II	ug/kg	1.8 U	-	-	-	-
Endosulfan sulfate	ug/kg	1.6 U	-	-	-	-
Endrin	ug/kg	2.4 U	-	-	-	-
Endrin aldehyde	ug/kg	1.6 U	-	-	-	-
Endrin ketone	ug/kg	1.1 U	-	-	-	-
gamma-BHC (lindane)	ug/kg	2.2 U	-	-	-	-
gamma-Chlordane	ug/kg	1.5 U	-	-	-	-
Heptachlor	ug/kg	2.0 U	-	-	-	-
Heptachlor epoxide	ug/kg	1.8 U	-	-	-	-
Methoxychlor	ug/kg	8.2 U	-	-	-	-
Toxaphene	ug/kg	31 U	-	-	-	-

Table 2

Summary of Analytical Results
Soil/Fill Samples - EU2
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-18**	**SS-148**	**SS-152**	**SS-156-AS**	**SS-157-AS**
Sample ID:		**SS-38443-112018-JC-018**	**SS-38443-112018-JC-148**	**SS-38443-112018-JC-152**	**SS-38443-112018-JC-156**	**SS-38443-112018-JC-157**
Sample Date:		**11/20/2018**	**11/20/2018**	**11/20/2018**	**11/20/2018**	**11/20/2018**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**
Parameters	**Units**					
Herbicides						
2,4,5-T	ug/kg	-	15 U	15 U	-	-
2,4,5-TP (Silvex)	ug/kg	-	16 U	16 U	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	-	58 U	56 U	-	-
Asbestos						
Asbestos	%	-	-	-	ND	ND
General Chemistry						
Cyanide (total)	mg/kg	0.24 U	-	-	-	-

Notes
J - Estimated concentration.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 3

Summary of Analytical Results
Soil/Fill Samples - EU3
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH152-18**	**BH153-18**	**BH154-18**	**BH155-18**	**BH155-18**	**BH155-18**	**BH156-18**
Sample ID:		**S-38443-052918-JC-099**	**S-38443-052918-JC-092**	**S-38443-052918-JC-094**	**S-38443-052918-JC-096**	**S-38443-052918-JC-097**	**S-38443-052918-JC-097**	**S-38443-051618-JC-074**
Sample Date:		**5/29/2018**	**5/29/2018**	**5/29/2018**	**5/29/2018**	**5/29/2018**	**5/29/2018**	**5/16/2018**
Sample Depth:		**9-11 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**
							Duplicate	
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/kg	0.90 U	0.87 U	0.66 U	0.94 U	-	0.91 U	0.25 U
1,1,2,2-Tetrachloroethane	ug/kg	R	1.5 U	1.1 U	1.6 U	-	1.6 U	0.28 U
1,1,2-Trichloroethane	ug/kg	1.2 U	1.2 U	0.91 U	1.3 U	-	1.3 U	0.43 U
1,1-Dichloroethane	ug/kg	0.76 U	0.73 U	0.56 U	0.79 U	-	0.77 U	0.36 U
1,1-Dichloroethene	ug/kg	1.0 U	0.95 U	0.73 U	1.0 U	-	1.0 U	0.59 U
1,2,4-Trichlorobenzene	ug/kg	R	0.60 U	0.46 U	0.65 U	-	0.63 U	0.26 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	R	3.8 U	2.9 U	4.1 U	-	4.0 U	0.74 U
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	0.85 U	0.81 U	0.62 U	0.88 U	-	0.85 U	0.38 U
1,2-Dichlorobenzene	ug/kg	R	1.2 U	0.89 U	1.3 U	-	1.2 U	0.24 U
1,2-Dichloroethane	ug/kg	0.85 U	0.82 U	0.62 U	0.88 U	-	0.85 U	0.32 U
1,2-Dichloropropane	ug/kg	0.94 U	0.90 U	0.68 U	0.97 U	-	0.94 U	0.34 U
1,3-Dichlorobenzene	ug/kg	R	0.86 U	0.66 U	0.93 U	-	0.90 U	0.32 U
1,4-Dichlorobenzene	ug/kg	R	0.93 U	0.71 U	1.0 U	-	0.97 U	0.38 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	4.3 J	11 J	2.9 U	7.8 J	-	5.1 J	1.4 U
2-Hexanone	ug/kg	4.5 U	4.3 U	3.3 U	4.7 U	-	4.5 U	0.63 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	4.1 U	3.9 U	3.0 U	4.2 U	-	4.1 U	0.97 U
Acetone	ug/kg	23 U	22 U	17 U	27 J	-	23 U	7.9 U
Benzene	ug/kg	0.77 U	0.74 U	0.56 U	0.80 U	-	0.77 U	0.35 U
Bromodichloromethane	ug/kg	0.75 U	0.72 U	0.55 U	0.78 U	-	0.75 U	0.36 U
Bromoform	ug/kg	2.6 U	2.5 U	1.9 U	2.7 U	-	2.7 U	0.44 U
Bromomethane (Methyl bromide)	ug/kg	1.1 U	1.0 U	0.79 U	1.1 U	-	1.1 U	0.65 U
Carbon disulfide	ug/kg	1.3 U	1.2 U	0.93 U	1.3 U	-	1.3 U	0.23 U
Carbon tetrachloride	ug/kg	3.6 U	3.4 U	2.6 U	3.7 U	-	3.6 U	0.27 U
Chlorobenzene	ug/kg	1.0 U	0.97 U	0.74 U	1.0 U	-	1.0 U	0.36 U
Chloroethane	ug/kg	1.3 U	1.3 U	0.98 U	1.4 U	-	1.3 U	0.42 U
Chloroform (Trichloromethane)	ug/kg	0.87 U	0.83 U	0.63 U	0.90 U	-	0.87 U	0.25 U
Chloromethane (Methyl chloride)	ug/kg	1.1 U	1.1 U	0.84 U	1.2 U	-	1.2 U	0.42 U
cis-1,2-Dichloroethene	ug/kg	0.72 U	0.69 U	0.52 U	0.74 U	-	0.72 U	0.31 U
cis-1,3-Dichloropropene	ug/kg	1.6 U	1.5 U	1.2 U	1.6 U	-	1.6 U	0.28 U
Cyclohexane	ug/kg	1.5 U	61	1.1 U	1.6 U	-	1.5 U	0.23 U
Dibromochloromethane	ug/kg	3.1 U	2.9 U	2.2 U	3.2 U	-	3.1 U	0.33 U
Dichlorodifluoromethane (CFC-12)	ug/kg	1.0 U	1.0 U	0.76 U	1.1 U	-	1.0 U	0.38 U
Ethylbenzene	ug/kg	1.2 U	1.1 U	0.84 U	1.2 U	-	1.2 U	0.30 U
Isopropyl benzene	ug/kg	0.92 U	0.88 U	0.67 U	0.95 U	-	0.92 U	0.22 U
Methyl acetate	ug/kg	3.8 U	3.6 U	2.7 U	3.9 U	-	3.8 U	1.3 U
Methyl cyclohexane	ug/kg	1.4 U	23	0.99 U	1.4 U	-	1.4 U	0.25 U
Methyl tert butyl ether (MTBE)	ug/kg	0.90 U	0.87 U	0.66 U	0.94 U	-	0.91 U	0.30 U
Methylene chloride	ug/kg	13 U	13 U	9.6 U	14 U	-	13 U	0.26 U
Styrene	ug/kg	1.3 U	1.2 U	0.93 U	1.3 U	-	1.3 U	0.30 U
Tetrachloroethene	ug/kg	0.81 U	0.77 U	0.59 U	0.83 U	-	0.81 U	0.40 U
Toluene	ug/kg	0.85 U	0.92 J	0.62 U	0.88 U	-	0.85 U	0.37 U
trans-1,2-Dichloroethene	ug/kg	0.51 U	0.49 U	0.37 U	0.53 U	-	0.51 U	0.42 U
trans-1,3-Dichloropropene	ug/kg	1.1 U	1.1 U	0.83 U	1.2 U	-	1.1 U	0.23 U
Trichloroethene	ug/kg	0.70 U	0.67 U	0.51 U	0.72 U	-	0.70 U	0.45 U

Table 3

Summary of Analytical Results
Soil/Fill Samples - EU3
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH152-18**	**BH153-18**	**BH154-18**	**BH155-18**	**BH155-18**	**BH155-18**	**BH156-18**
Sample ID:		**S-38443-052918-JC-099**	**S-38443-052918-JC-092**	**S-38443-052918-JC-094**	**S-38443-052918-JC-096**	**S-38443-052918-JC-097**	**S-38443-052918-JC-097**	**S-38443-051618-JC-074**
Sample Date:		**5/29/2018**	**5/29/2018**	**5/29/2018**	**5/29/2018**	**5/29/2018**	**5/29/2018**	**5/16/2018**
Sample Depth:		**9-11 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**
							Duplicate	
Parameters	**Units**							
Trichlorofluoromethane (CFC-11)	ug/kg	1.2 U	1.1 U	0.87 U	1.2 U	-	1.2 U	0.26 U
Trifluorotrichloroethane (CFC-113)	ug/kg	1.4 U	1.4 U	1.0 U	1.5 U	-	1.4 U	0.54 U
Vinyl chloride	ug/kg	0.92 U	0.88 U	0.67 U	0.96 U	-	0.92 U	0.31 U
Xylenes (total)	ug/kg	1.7 U	1.7 U	1.3 U	1.8 U	-	1.8 U	0.44 U
Semi-Volatiles								
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	150 U	28 U	11 U	12 U	-	12 U	13 U
2,4,5-Trichlorophenol	ug/kg	1000 U	200 U	75 U	80 U	-	80 U	88 U
2,4,6-Trichlorophenol	ug/kg	960 U	180 U	70 U	74 U	-	74 U	81 U
2,4-Dichlorophenol	ug/kg	660 U	130 U	48 U	51 U	-	51 U	56 U
2,4-Dimethylphenol	ug/kg	600 U	110 U	43 U	46 U	-	47 U	51 U
2,4-Dinitrophenol	ug/kg	2100 U	400 U	150 U	160 U	-	170 U	180 U
2,4-Dinitrotoluene	ug/kg	930 U	180 U	67 U	72 U	-	72 U	79 U
2,6-Dinitrotoluene	ug/kg	840 U	160 U	61 U	65 U	-	65 U	71 U
2-Chloronaphthalene	ug/kg	210 U	40 U	15 U	16 U	-	16 U	18 U
2-Chlorophenol	ug/kg	150 U	28 U	11 U	12 U	-	12 U	13 U
2-Methylnaphthalene	ug/kg	850	10 J	20	0.58 U	-	5.9 J	26
2-Methylphenol	ug/kg	470 U	88 U	34 U	36 U	-	36 U	39 U
2-Nitroaniline	ug/kg	600 UJ	110 UJ	43 U	46 U	-	47 U	51 U
2-Nitrophenol	ug/kg	200 U	37 U	14 U	15 U	-	15 U	17 U
3&4-Methylphenol	ug/kg	440 U	82 U	32 U	34 U	-	34 U	37 U
3,3'-Dichlorobenzidine	ug/kg	650 U	120 U	47 U	50 U	-	50 U	55 U
3-Nitroaniline	ug/kg	740 U	140 U	53 U	57 U	-	57 U	62 U
4,6-Dinitro-2-methylphenol	ug/kg	1200 U	230 U	87 U	93 U	-	93 U	100 U
4-Bromophenyl phenyl ether	ug/kg	210 U	40 U	15 U	16 U	-	16 U	18 U
4-Chloro-3-methylphenol	ug/kg	680 U	130 U	49 U	52 U	-	52 U	57 U
4-Chloroaniline	ug/kg	450 U	85 U	33 U	35 U	-	35 U	38 U
4-Chlorophenyl phenyl ether	ug/kg	210 U	40 U	15 U	16 U	-	16 U	18 U
4-Methylphenol	ug/kg	-	-	-	-	-	-	-
4-Nitroaniline	ug/kg	900 U	170 U	65 U	70 U	-	70 U	76 U
4-Nitrophenol	ug/kg	1400 U	270 U	100 U	110 U	-	110 U	120 U
Acenaphthene	ug/kg	750	64	0.83 U	0.88 U	-	0.88 U	0.97 U
Acenaphthylene	ug/kg	1100	1.0 U	0.38 U	0.41 U	-	4.9 J	9.7
Acetophenone	ug/kg	170 U	31 U	12 U	13 U	-	13 U	14 U
Anthracene	ug/kg	3400	120	6.2 J	0.91 U	-	4.8 J	15
Atrazine	ug/kg	540 U	100 U	39 U	42 U	-	42 U	46 U
Benzaldehyde	ug/kg	350 UJ	65 UJ	25 U	27 U	-	27 U	29 U
Benzo(a)anthracene	ug/kg	5900	280	30	0.73 UJ	-	28 J	57
Benzo(a)pyrene	ug/kg	4800	270	30	11 J	-	35 J	52
Benzo(b)fluoranthene	ug/kg	7400	410	47	15 J	-	46 J	76
Benzo(g,h,i)perylene	ug/kg	2500	160	29	0.41 UJ	-	24 J	42
Benzo(k)fluoranthene	ug/kg	2500	150	0.74 U	0.79 UJ	-	17 J	32
Biphenyl (1,1-Biphenyl)	ug/kg	260 J	48 U	18 U	20 U	-	20 U	22 U
bis(2-Chloroethoxy)methane	ug/kg	180 U	34 U	13 U	14 U	-	14 U	15 U
bis(2-Chloroethyl)ether	ug/kg	180 U	34 U	13 U	14 U	-	14 U	15 U

Table 3

Summary of Analytical Results
Soil/Fill Samples - EU3
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH152-18**	**BH153-18**	**BH154-18**	**BH155-18**	**BH155-18**	**BH155-18**	**BH156-18**
Sample ID:		**S-38443-052918-JC-099**	**S-38443-052918-JC-092**	**S-38443-052918-JC-094**	**S-38443-052918-JC-096**	**S-38443-052918-JC-097**	**S-38443-052918-JC-097**	**S-38443-051618-JC-074**
Sample Date:		**5/29/2018**	**5/29/2018**	**5/29/2018**	**5/29/2018**	**5/29/2018**	**5/29/2018**	**5/16/2018**
Sample Depth:		**9-11 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**
							Duplicate	
Parameters	**Units**							
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	770 U	220	55 U	59 U	-	73 J	65 U
Butyl benzylphthalate (BBP)	ug/kg	330 U	63 U	24 U	26 U	-	26 U	28 U
Caprolactam	ug/kg	1100 U	210 U	82 U	87 U	-	87 U	95 U
Carbazole	ug/kg	1800	72 J	21 U	22 U	-	22 U	24 U
Chrysene	ug/kg	6000	340	40	1.3 UJ	-	35 J	68
Dibenz(a,h)anthracene	ug/kg	670	1.9 U	0.72 U	0.77 U	-	0.77 U	11
Dibenzofuran	ug/kg	1700	37 U	14 U	15 U	-	15 U	17 U
Diethyl phthalate	ug/kg	470 U	88 U	34 U	36 U	-	36 U	39 U
Dimethyl phthalate	ug/kg	210 U	40 U	15 U	16 U	-	16 U	18 U
Di-n-butylphthalate (DBP)	ug/kg	330 U	63 U	24 U	26 U	-	26 U	28 U
Di-n-octyl phthalate (DnOP)	ug/kg	420 U	80 U	30 U	33 U	-	33 U	36 U
Fluoranthene	ug/kg	15000	700	56	19 J	-	58 J	110
Fluorene	ug/kg	2600	74	0.58 U	0.62 U	-	0.62 U	6.3 J
Hexachlorobenzene	ug/kg	32 U	6.0 U	2.3 U	2.4 U	-	2.4 U	2.7 U
Hexachlorobutadiene	ug/kg	180 U	34 U	13 U	14 U	-	14 U	15 U
Hexachlorocyclopentadiene	ug/kg	930 U	180 U	67 U	72 U	-	72 U	79 U
Hexachloroethane	ug/kg	140 U	26 U	9.8 U	10 U	-	10 U	11 U
Indeno(1,2,3-cd)pyrene	ug/kg	2300	150	26	0.41 UJ	-	24 J	34
Isophorone	ug/kg	180 UJ	34 UJ	13 UJ	14 UJ	-	14 UJ	15 U
Naphthalene	ug/kg	870	2.3 U	19	0.95 U	-	5.3 J	19
Nitrobenzene	ug/kg	200 UJ	37 UJ	14 UJ	15 UJ	-	15 UJ	17 U
N-Nitrosodi-n-propylamine	ug/kg	170 UJ	31 UJ	12 UJ	13 UJ	-	13 UJ	14 U
N-Nitrosodiphenylamine	ug/kg	180 U	34 U	13 U	14 U	-	14 U	15 U
Pentachlorophenol	ug/kg	870 U	160 U	63 U	67 U	-	67 U	74 U
Phenanthrene	ug/kg	15000	510	45	7.9 J	-	25 J	57
Phenol	ug/kg	120 U	23 U	8.7 U	9.3 U	-	9.3 U	10 U
Pyrene	ug/kg	11000	600	53	17 J	-	50 J	97
Metals								
Aluminum	mg/kg	9600	8700	3400	9200	-	8900	5800
Antimony	mg/kg	5.0 J	0.16 J	0.19 J	0.16 J	-	0.19 J	0.23 J
Arsenic	mg/kg	8.7	7.6	7.7	8.1	-	7.6	7.5
Barium	mg/kg	260	92	50	78	-	81	82 J
Beryllium	mg/kg	0.38	0.50	0.24	0.51	-	0.52	0.43
Cadmium	mg/kg	15	0.22	0.25	0.21	-	0.22	0.25
Calcium	mg/kg	100000	45000	110000	24000	-	20000	120000
Chromium	mg/kg	35	12	7.7	14	-	15	9.7
Chromium III (trivalent)	mg/kg	35	12	7.7	13	-	15	9.7
Chromium VI (hexavalent)	mg/kg	0.31 J	0.27 U	0.26 U	1.0	-	0.28 U	0.31 U
Cobalt	mg/kg	6.1	5.5	3.4	5.8	-	5.4	4.5
Copper	mg/kg	96	21	11	14	-	15	14
Iron	mg/kg	15000	15000	9800	16000	-	16000	12000
Lead	mg/kg	550	68	34	12	-	16	34 J
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-

Table 3

Summary of Analytical Results
Soil/Fill Samples - EU3
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH152-18**	**BH153-18**	**BH154-18**	**BH155-18**	**BH155-18**	**BH155-18**	**BH156-18**
Sample ID:		**S-38443-052918-JC-099**	**S-38443-052918-JC-092**	**S-38443-052918-JC-094**	**S-38443-052918-JC-096**	**S-38443-052918-JC-097**	**S-38443-052918-JC-097**	**S-38443-051618-JC-074**
Sample Date:		**5/29/2018**	**5/29/2018**	**5/29/2018**	**5/29/2018**	**5/29/2018**	**5/29/2018**	**5/16/2018**
Sample Depth:		**9-11 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**
							Duplicate	
Parameters	**Units**							
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-
Magnesium	mg/kg	34000	19000	49000	10000	-	11000	53000
Manganese	mg/kg	470	430	370	250	-	310	480
Mercury	mg/kg	0.61	0.060 J	0.034 J	0.027 J	-	0.025 J	0.18
Nickel	mg/kg	28	13	9.0	16	-	15	12
Potassium	mg/kg	1200	770	470	790	-	810	730
Selenium	mg/kg	1.4	0.51 J	0.38 J	0.45 J	-	0.45 J	0.38 J
Silver	mg/kg	1.9	0.043 J	0.046 J	0.037 J	-	0.063 J	0.049 J
Sodium	mg/kg	620	94 J	120 J	61 J	-	66 J	180 J
Thallium	mg/kg	0.16 J	0.15 J	0.10 J	0.16 J	-	0.16 J	0.15 J
Vanadium	mg/kg	19	21	10	22	-	23	15
Zinc	mg/kg	1600	57	71	47	-	48	69
PCBs								
Aroclor-1016 (PCB-1016)	ug/kg	27 U	130 U	23 U	26 U	-	25 U	28 U
Aroclor-1221 (PCB-1221)	ug/kg	29 U	140 U	25 U	28 U	-	28 U	30 U
Aroclor-1232 (PCB-1232)	ug/kg	28 U	130 U	24 U	27 U	-	26 U	29 U
Aroclor-1242 (PCB-1242)	ug/kg	23 U	980	20 U	23 U	-	22 U	24 U
Aroclor-1248 (PCB-1248)	ug/kg	29 U	140 U	25 U	28 U	-	28 U	30 U
Aroclor-1254 (PCB-1254)	ug/kg	70	1300	24 U	27 U	-	26 U	29 U
Aroclor-1260 (PCB-1260)	ug/kg	27 U	130 U	23 U	26 U	-	25 U	28 U
Pesticides								
4,4'-DDD	ug/kg	2.8 J	1.7 U	7.8 U	1.8 U	-	1.7 U	20 U
4,4'-DDE	ug/kg	2.1 J	28	8.0 U	1.8 U	-	1.7 U	20 U
4,4'-DDT	ug/kg	1.4 U	1.3 U	6.0 U	1.3 U	-	1.3 U	15 U
Aldrin	ug/kg	0.93 U	0.90 U	4.1 U	0.91 U	-	0.88 U	10 U
alpha-BHC	ug/kg	1.1 U	1.1 U	4.8 U	1.1 U	-	1.0 U	12 U
alpha-Chlordane	ug/kg	4.0 J	36	7.9 U	1.8 U	-	1.7 U	20 U
beta-BHC	ug/kg	2.1 U	2.0 U	9.2 U	2.0 U	-	2.0 U	23 U
delta-BHC	ug/kg	100 U	99 U	8.9 U	2.0 U	-	1.9 U	22 U
Dieldrin	ug/kg	1.3 U	2.0 NJ	5.8 U	1.3 U	-	1.3 U	15 U
Endosulfan I	ug/kg	1.5 U	1.4 U	6.4 U	1.4 U	-	1.4 U	16 U
Endosulfan II	ug/kg	1.8 U	4.3 NJ	7.8 U	1.8 U	-	1.7 U	20 U
Endosulfan sulfate	ug/kg	78 U	75 U	6.8 U	1.5 U	-	1.5 U	17 U
Endrin	ug/kg	2.3 U	2.2 U	10 U	2.3 U	-	2.2 U	25 U
Endrin aldehyde	ug/kg	79 U	76 U	6.9 U	1.6 U	-	1.5 U	17 U
Endrin ketone	ug/kg	1.1 U	1.0 U	4.7 U	1.1 U	-	1.0 U	12 U
gamma-BHC (lindane)	ug/kg	2.2 U	3.8 J	9.5 U	2.1 U	-	2.1 U	24 U
gamma-Chlordane	ug/kg	3.6 J	30 J	6.5 U	1.5 U	-	1.4 U	16 U
Heptachlor	ug/kg	1.9 U	1.8 U	8.4 U	1.9 U	-	1.8 U	21 U
Heptachlor epoxide	ug/kg	2.0 J	8.0 NJ	7.6 U	1.7 U	-	1.7 U	19 U
Methoxychlor	ug/kg	8.0 UJ	7.7 UJ	35 UJ	7.8 UJ	-	7.5 UJ	87 U
Toxaphene	ug/kg	30 U	29 U	130 U	30 U	-	29 U	330 U

Table 3

Summary of Analytical Results
Soil/Fill Samples - EU3
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH152-18**	**BH153-18**	**BH154-18**	**BH155-18**	**BH155-18**	**BH155-18**	**BH156-18**
Sample ID:		**S-38443-052918-JC-099**	**S-38443-052918-JC-092**	**S-38443-052918-JC-094**	**S-38443-052918-JC-096**	**S-38443-052918-JC-097**	**S-38443-052918-JC-097**	**S-38443-051618-JC-074**
Sample Date:		**5/29/2018**	**5/29/2018**	**5/29/2018**	**5/29/2018**	**5/29/2018**	**5/29/2018**	**5/16/2018**
Sample Depth:		**9-11 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**
							Duplicate	
Parameters	**Units**							
Herbicides								
2,4,5-TP (Silvex)	ug/kg	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	-	-	-	-	-	-	-
Asbestos								
Asbestos	%	ND	ND	ND	-	ND	-	ND
Geotechnical								
Coarse sand	%	-	-	-	-	-	-	-
Fine sand	%	-	-	-	-	-	-	-
Fines	%	-	-	-	-	-	-	-
Gravel	%	-	-	-	-	-	-	-
Medium sand	%	-	-	-	-	-	-	-
Sand	%	-	-	-	-	-	-	-
Sieve, #4	% passed	-	-	-	-	-	-	-
Sieve, #10	% passed	-	-	-	-	-	-	-
Sieve, #20	% passed	-	-	-	-	-	-	-
Sieve, #40	% passed	-	-	-	-	-	-	-
Sieve, #60	% passed	-	-	-	-	-	-	-
Sieve, #80	% passed	-	-	-	-	-	-	-
Sieve, #100	% passed	-	-	-	-	-	-	-
Sieve, #200	% passed	-	-	-	-	-	-	-
Sieve, 0.375 inch	% passed	-	-	-	-	-	-	-
Sieve, 0.75 inch	% passed	-	-	-	-	-	-	-
Sieve, 1 inch	% passed	-	-	-	-	-	-	-
Sieve, 1.5 inch	% passed	-	-	-	-	-	-	-
Sieve, 2 inch	% passed	-	-	-	-	-	-	-
Sieve, 3 inch	% passed	-	-	-	-	-	-	-
General Chemistry								
Cyanide (total)	mg/kg	0.24 J	0.27 J	0.19 U	0.20 U	-	0.25 U	0.26 U
Total solids	%	-	-	-	-	-	-	-

Notes
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 3

Summary of Analytical Results
Soil/Fill Samples - EU3
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH157-18**	**GP07-18**	**SS-146**	**SS-147**	**SS-149**	**SS-150**	**SS-151**
Sample ID:		**S-38443-051718-JC-083**	**SO-38443-080118-JC-121**	**S-38443-052918-JC-098**	**S-38443-052918-JC-091**	**S-38443-052918-JC-095**	**S-38443-052918-JC-093**	**S-38443-051618-JC-073**
Sample Date:		**5/17/2018**	**8/1/2018**	**5/29/2018**	**5/29/2018**	**5/29/2018**	**5/29/2018**	**5/16/2018**
Sample Depth:		**12-14 ft BGS**	**12-13 ft bgs**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/kg	0.20 U	26 U	0.73 U	0.71 U	0.72 U	0.78 U	0.19 U
1,1,2,2-Tetrachloroethane	ug/kg	0.23 U	22 U	1.3 U	1.2 U	1.2 U	1.4 U	0.22 U
1,1,2-Trichloroethane	ug/kg	0.34 U	21 U	1.0 U	0.99 U	0.99 U	1.1 U	0.32 U
1,1-Dichloroethane	ug/kg	0.29 U	29 U	0.61 U	0.60 U	0.60 U	0.66 U	0.27 U
1,1-Dichloroethene	ug/kg	0.48 U	33 U	0.80 U	0.79 U	0.79 U	0.86 U	0.45 U
1,2,4-Trichlorobenzene	ug/kg	0.21 UJ	24 U	0.51 U	0.50 U	0.50 U	0.54 U	0.20 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	0.60 UJ	44 U	3.2 U	3.1 U	3.1 U	3.4 U	0.56 U
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	0.31 U	21 U	0.68 U	0.67 U	0.67 U	0.73 U	0.29 U
1,2-Dichlorobenzene	ug/kg	0.19 U	17 U	0.98 U	0.97 U	0.97 U	1.1 U	0.18 U
1,2-Dichloroethane	ug/kg	0.26 U	28 UJ	0.68 U	0.67 U	0.67 U	0.73 U	0.24 U
1,2-Dichloropropane	ug/kg	0.27 U	28 U	0.75 U	0.74 U	0.74 U	0.81 U	0.26 U
1,3-Dichlorobenzene	ug/kg	0.26 U	35 U	0.72 U	0.71 U	0.71 U	0.77 U	0.24 U
1,4-Dichlorobenzene	ug/kg	0.31 U	25 U	0.78 U	0.77 U	0.77 U	0.84 U	0.29 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	1.1 U	46 U	5.4 J	8.7 J	7.2 J	13 J	5.7 J
2-Hexanone	ug/kg	0.51 U	79 U	3.6 U	3.6 U	3.6 U	3.9 U	0.48 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	0.79 U	37 U	3.3 U	3.2 U	3.2 U	3.5 U	0.74 U
Acetone	ug/kg	2.7 U	130 U	30	49	42	63	22
Benzene	ug/kg	0.33 J	22 U	0.62 U	0.61 U	0.61 U	0.66 U	0.27 U
Bromodichloromethane	ug/kg	0.29 U	17 UJ	0.60 U	0.59 U	0.59 U	0.64 U	0.27 U
Bromoform	ug/kg	0.35 U	21 U	2.1 U	2.1 U	2.1 U	2.3 U	0.33 U
Bromomethane (Methyl bromide)	ug/kg	0.52 U	26 U	0.88 U	0.86 U	0.86 U	0.94 U	0.49 U
Carbon disulfide	ug/kg	0.19 U	17 U	1.0 U	1.0 U	1.0 U	1.1 U	0.17 U
Carbon tetrachloride	ug/kg	0.22 U	25 UJ	2.9 U	2.8 U	2.8 U	3.1 U	0.21 U
Chlorobenzene	ug/kg	0.29 U	28 U	0.81 U	0.80 U	0.80 U	0.87 U	0.27 U
Chloroethane	ug/kg	0.34 U	26 U	1.1 U	1.1 U	1.1 U	1.2 U	0.32 U
Chloroform (Trichloromethane)	ug/kg	0.20 U	22 U	0.70 U	0.69 U	0.69 U	0.75 U	0.19 U
Chloromethane (Methyl chloride)	ug/kg	0.34 U	17 U	0.92 U	0.91 U	0.91 U	0.99 U	0.32 U
cis-1,2-Dichloroethene	ug/kg	0.25 U	32 U	0.58 U	0.57 U	0.57 U	0.62 U	0.23 U
cis-1,3-Dichloropropene	ug/kg	0.23 U	21 UJ	1.3 U	1.3 U	1.3 U	1.4 U	0.22 U
Cyclohexane	ug/kg	0.43 J	28 U	1.2 U	1.2 U	1.2 U	1.3 U	0.17 U
Dibromochloromethane	ug/kg	0.26 U	31 U	2.5 U	2.4 U	2.4 U	2.6 U	0.25 U
Dichlorodifluoromethane (CFC-12)	ug/kg	0.31 U	20 U	0.84 U	0.82 U	0.82 U	0.89 U	0.29 U
Ethylbenzene	ug/kg	0.38 J	380	0.93 U	0.91 U	0.91 U	0.99 U	0.22 U
Isopropyl benzene	ug/kg	0.18 U	140 J	0.74 U	0.72 U	0.73 U	0.79 U	0.17 U
Methyl acetate	ug/kg	1.0 U	69 U	3.0 U	3.0 U	3.0 U	3.2 U	0.97 U
Methyl cyclohexane	ug/kg	0.55 J	77 J	1.1 U	1.1 U	1.1 U	1.2 U	0.19 U
Methyl tert butyl ether (MTBE)	ug/kg	0.24 U	24 U	0.73 U	0.71 U	0.72 U	0.78 U	0.22 U
Methylene chloride	ug/kg	0.21 U	60 U	11 U	10 U	10 U	11 U	0.20 U
Styrene	ug/kg	0.24 U	9.2 U	1.0 U	1.0 U	1.0 U	1.1 U	0.22 U
Tetrachloroethene	ug/kg	0.33 U	19 U	0.65 U	0.64 U	0.64 U	0.69 U	0.31 U
Toluene	ug/kg	1.1 J	430	0.68 U	0.67 U	0.67 U	0.73 U	0.28 U
trans-1,2-Dichloroethene	ug/kg	0.34 U	32 U	0.41 U	0.40 U	0.41 U	0.44 U	0.32 U
trans-1,3-Dichloropropene	ug/kg	0.19 U	14 U	0.92 U	0.90 U	0.90 U	0.98 U	0.17 U
Trichloroethene	ug/kg	0.36 U	34 UJ	0.56 U	0.55 U	0.55 U	0.60 U	0.34 U

Table 3

Summary of Analytical Results
Soil/Fill Samples - EU3
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH157-18**	**GP07-18**	**SS-146**	**SS-147**	**SS-149**	**SS-150**	**SS-151**
Sample ID:		**S-38443-051718-JC-083**	**SO-38443-080118-JC-121**	**S-38443-052918-JC-098**	**S-38443-052918-JC-091**	**S-38443-052918-JC-095**	**S-38443-052918-JC-093**	**S-38443-051618-JC-073**
Sample Date:		**5/17/2018**	**8/1/2018**	**5/29/2018**	**5/29/2018**	**5/29/2018**	**5/29/2018**	**5/16/2018**
Sample Depth:		**12-14 ft BGS**	**12-13 ft bgs**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**							
Trichlorofluoromethane (CFC-11)	ug/kg	0.21 U	31 U	0.95 U	0.94 U	0.94 U	1.0 U	0.20 U
Trifluorotrichloroethane (CFC-113)	ug/kg	0.43 U	21 U	1.1 U	1.1 U	1.1 U	1.2 U	0.41 U
Vinyl chloride	ug/kg	0.25 U	16 U	0.74 U	0.73 U	0.73 U	0.79 U	0.23 U
Xylenes (total)	ug/kg	0.68 J	2800	1.4 U	1.4 U	1.4 U	1.5 U	0.33 U
Semi-Volatiles								
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	11 U	-	4400 U	110 U	43 U	11 U	11 U
2,4,5-Trichlorophenol	ug/kg	73 U	-	30000 U	730 U	300 U	78 U	79 U
2,4,6-Trichlorophenol	ug/kg	68 U	-	28000 U	680 U	270 U	72 U	73 U
2,4-Dichlorophenol	ug/kg	47 U	-	19000 U	470 U	190 U	49 U	50 U
2,4-Dimethylphenol	ug/kg	43 U	-	18000 U	420 U	170 U	45 U	46 U
2,4-Dinitrophenol	ug/kg	150 U	-	63000 U	1500 U	R	160 U	160 U
2,4-Dinitrotoluene	ug/kg	66 U	-	27000 U	660 U	270 U	70 U	71 U
2,6-Dinitrotoluene	ug/kg	60 U	-	25000 U	590 U	240 U	63 U	64 U
2-Chloronaphthalene	ug/kg	15 U	-	6200 U	150 U	60 U	16 U	16 U
2-Chlorophenol	ug/kg	11 U	-	4400 U	110 U	43 U	11 U	11 U
2-Methylnaphthalene	ug/kg	0.53 U	-	6300	58 J	160 J	0.56 U	8.1
2-Methylphenol	ug/kg	33 U	-	14000 U	330 U	130 U	35 U	35 U
2-Nitroaniline	ug/kg	43 U	-	18000 UJ	420 UJ	170 UJ	45 UJ	46 U
2-Nitrophenol	ug/kg	14 U	-	5700 U	140 U	56 U	15 U	15 U
3&4-Methylphenol	ug/kg	31 U	-	13000 U	310 U	120 U	33 U	33 U
3,3'-Dichlorobenzidine	ug/kg	46 U	-	19000 U	450 U	180 U	48 U	49 U
3-Nitroaniline	ug/kg	52 U	-	22000 U	520 U	210 U	55 U	56 U
4,6-Dinitro-2-methylphenol	ug/kg	85 U	-	35000 U	850 U	R	90 U	91 U
4-Bromophenyl phenyl ether	ug/kg	15 U	-	6200 U	150 U	60 U	16 U	16 U
4-Chloro-3-methylphenol	ug/kg	48 U	-	20000 U	480 U	190 U	51 U	51 U
4-Chloroaniline	ug/kg	32 U	-	13000 U	320 U	130 U	34 U	34 U
4-Chlorophenyl phenyl ether	ug/kg	15 U	-	6200 U	150 U	60 U	16 U	16 U
4-Methylphenol	ug/kg	-	-	-	-	-	-	-
4-Nitroaniline	ug/kg	64 U	-	26000 U	630 U	260 U	67 U	68 U
4-Nitrophenol	ug/kg	100 U	-	42000 U	990 U	400 U	110 U	110 U
Acenaphthene	ug/kg	10	-	54000	8.0 U	97	0.85 U	5.0 J
Acenaphthylene	ug/kg	0.37 U	-	150 U	3.7 U	79	0.39 U	6.1 J
Acetophenone	ug/kg	12 U	-	4900 U	120 U	47 U	12 U	13 U
Anthracene	ug/kg	31	-	120000	57 J	260	11	16
Atrazine	ug/kg	38 U	-	16000 U	380 U	150 U	40 U	41 U
Benzaldehyde	ug/kg	24 UJ	-	10000 UJ	240 UJ	98 UJ	26 UJ	26 U
Benzo(a)anthracene	ug/kg	130	-	260000	440	1400	63	49
Benzo(a)pyrene	ug/kg	120	-	270000	680	1500	59	43
Benzo(b)fluoranthene	ug/kg	150	-	330000	960	2000	70	67
Benzo(g,h,i)perylene	ug/kg	84	-	120000	440	850	42	41
Benzo(k)fluoranthene	ug/kg	67	-	130000	510	790	30	27
Biphenyl (1,1-Biphenyl)	ug/kg	18 U	-	7500 U	180 U	73 U	19 U	19 U
bis(2-Chloroethoxy)methane	ug/kg	13 U	-	5300 U	130 U	51 U	13 U	14 U
bis(2-Chloroethyl)ether	ug/kg	13 U	-	5300 U	130 U	51 U	13 U	14 U

Table 3

Summary of Analytical Results
Soil/Fill Samples - EU3
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH157-18**	**GP07-18**	**SS-146**	**SS-147**	**SS-149**	**SS-150**	**SS-151**
Sample ID:		**S-38443-051718-JC-083**	**SO-38443-080118-JC-121**	**S-38443-052918-JC-098**	**S-38443-052918-JC-091**	**S-38443-052918-JC-095**	**S-38443-052918-JC-093**	**S-38443-051618-JC-073**
Sample Date:		**5/17/2018**	**8/1/2018**	**5/29/2018**	**5/29/2018**	**5/29/2018**	**5/29/2018**	**5/16/2018**
Sample Depth:		**12-14 ft BGS**	**12-13 ft bgs**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**							
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	54 U	-	23000 U	620 J	220 U	57 U	58 U
Butyl benzylphthalate (BBP)	ug/kg	23 U	-	9700 U	230 U	94 U	25 U	25 U
Caprolactam	ug/kg	80 U	-	33000 U	790 U	320 U	84 U	86 U
Carbazole	ug/kg	20 U	-	92000	200 U	160 J	21 U	22 U
Chrysene	ug/kg	140	-	250000	580	1400	57	61
Dibenz(a,h)anthracene	ug/kg	19	-	39000	7.0 U	230	0.74 U	9.3
Dibenzofuran	ug/kg	14 U	-	30000	140 U	72 J	15 U	15 U
Diethyl phthalate	ug/kg	33 U	-	14000 U	330 U	130 U	35 U	35 U
Dimethyl phthalate	ug/kg	15 U	-	6200 U	150 U	60 U	16 U	16 U
Di-n-butylphthalate (DBP)	ug/kg	23 U	-	9700 U	230 U	94 U	25 U	25 J
Di-n-octyl phthalate (DnOP)	ug/kg	30 U	-	12000 U	300 U	120 U	31 U	32 U
Fluoranthene	ug/kg	250	-	590000	800	2700	100	110
Fluorene	ug/kg	9.2	-	62000	5.6 U	74	0.60 U	7.1 J
Hexachlorobenzene	ug/kg	2.2 U	-	930 U	22 U	9.0 U	2.4 U	2.4 U
Hexachlorobutadiene	ug/kg	13 U	-	5300 U	130 U	51 U	13 U	14 U
Hexachlorocyclopentadiene	ug/kg	66 U	-	27000 U	660 U	R	70 U	71 U
Hexachloroethane	ug/kg	9.6 U	-	4000 U	95 U	38 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	ug/kg	69	-	120000	410	770	30	31
Isophorone	ug/kg	13 U	-	5300 UJ	130 UJ	51 UJ	13 UJ	14 U
Naphthalene	ug/kg	0.87 U	-	18000	8.7 U	110 J	0.92 U	8.0
Nitrobenzene	ug/kg	14 U	-	5700 UJ	140 UJ	56 UJ	15 UJ	15 U
N-Nitrosodi-n-propylamine	ug/kg	12 U	-	4900 UJ	120 UJ	47 UJ	12 UJ	13 U
N-Nitrosodiphenylamine	ug/kg	13 U	-	5300 U	130 U	51 U	13 U	14 U
Pentachlorophenol	ug/kg	62 U	-	26000 U	610 U	250 U	65 U	66 U
Phenanthrene	ug/kg	100	-	480000	360	940	48	80
Phenol	ug/kg	8.5 U	-	3500 U	85 U	34 U	9.0 U	9.1 U
Pyrene	ug/kg	220	-	450000	890	2300	93	90
Metals								
Aluminum	mg/kg	1500 J	-	5900	9800	5100	6200	7200
Antimony	mg/kg	0.12 UJ	-	1.1 J	0.13 J	0.15 J	0.13 UJ	0.59 J
Arsenic	mg/kg	5.7	-	9.4	1.8	6.0	6.1	7.0
Barium	mg/kg	19	-	74	110	66	95	59 J
Beryllium	mg/kg	0.19	-	0.51	2.9	0.38	0.36	0.61
Cadmium	mg/kg	0.091 J	-	0.67	0.18 J	0.23	0.26	0.25
Calcium	mg/kg	220000	-	79000	170000	88000	76000	37000
Chromium	mg/kg	4.5	-	16	280	22	9.5	10
Chromium III (trivalent)	mg/kg	4.5	-	16	280	22	9.5	10
Chromium VI (hexavalent)	mg/kg	0.25 U	-	0.27 U	0.66 J	0.85 J	1.4 U	0.27 U
Cobalt	mg/kg	2.5	-	5.1	1.2	5.3	4.6	7.9
Copper	mg/kg	6.7	-	50	17	14	11	14
Iron	mg/kg	6300	-	22000	54000	14000	14000	13000
Lead	mg/kg	6.8	-	1000	14	26	49	23 J
Lead - coarse fraction	mg/kg	-	-	100 J	-	-	-	-
Lead - fine fraction	mg/kg	-	-	210	-	-	-	-

Table 3

Summary of Analytical Results
Soil/Fill Samples - EU3
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH157-18**	**GP07-18**	**SS-146**	**SS-147**	**SS-149**	**SS-150**	**SS-151**
Sample ID:		**S-38443-051718-JC-083**	**SO-38443-080118-JC-121**	**S-38443-052918-JC-098**	**S-38443-052918-JC-091**	**S-38443-052918-JC-095**	**S-38443-052918-JC-093**	**S-38443-051618-JC-073**
Sample Date:		**5/17/2018**	**8/1/2018**	**5/29/2018**	**5/29/2018**	**5/29/2018**	**5/29/2018**	**5/16/2018**
Sample Depth:		**12-14 ft BGS**	**12-13 ft bgs**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**							
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	110	-	-	-	-
Magnesium	mg/kg	52000	-	37000	65000	31000	30000	16000
Manganese	mg/kg	340 J	-	390	6000	580	390	690
Mercury	mg/kg	0.018 U	-	0.56	0.019 U	0.040 J	0.068 J	0.043 J
Nickel	mg/kg	8.9	-	14	8.9	13	11	11
Potassium	mg/kg	440	-	640	650	970	560	600
Selenium	mg/kg	0.24 J	-	0.45 J	1.1	0.62 J	0.39 J	0.57 J
Silver	mg/kg	0.021 U	-	0.35	0.13 J	0.074 J	0.041 J	0.039 J
Sodium	mg/kg	140 J	-	120 J	460 J	110 J	110 J	78 J
Thallium	mg/kg	0.083 J	-	0.25	0.046 U	0.19	0.12 J	0.20 J
Vanadium	mg/kg	5.2	-	18	170	22	16	21
Zinc	mg/kg	15	-	260	62	48	58	60
PCBs								
Aroclor-1016 (PCB-1016)	ug/kg	24 U	-	24 U	23 U	24 U	26 U	26 U
Aroclor-1221 (PCB-1221)	ug/kg	26 U	-	26 U	25 U	27 U	28 U	28 U
Aroclor-1232 (PCB-1232)	ug/kg	25 U	-	25 U	24 U	25 U	27 U	27 U
Aroclor-1242 (PCB-1242)	ug/kg	20 U	-	20 U	20 U	21 U	22 U	22 U
Aroclor-1248 (PCB-1248)	ug/kg	26 U	-	26 U	25 U	27 U	28 U	28 U
Aroclor-1254 (PCB-1254)	ug/kg	25 U	-	25 U	24 U	25 U	27 U	27 U
Aroclor-1260 (PCB-1260)	ug/kg	24 U	-	24 U	23 U	24 U	26 U	26 U
Pesticides								
4,4'-DDD	ug/kg	1.5 U	-	32 U	1.5 U	1.6 U	1.8 U	1.6 U
4,4'-DDE	ug/kg	1.6 U	-	33 U	1.6 U	1.7 U	1.8 U	1.7 U
4,4'-DDT	ug/kg	1.2 UJ	-	24 U	1.4 J	1.3 U	1.3 U	1.2 U
Aldrin	ug/kg	0.80 U	-	17 U	0.79 U	0.85 U	0.91 U	0.85 U
alpha-BHC	ug/kg	0.94 U	-	20 U	0.94 U	1.0 U	1.1 U	1.0 U
alpha-Chlordane	ug/kg	1.6 U	-	32 U	1.5 U	1.7 U	1.8 U	1.7 U
beta-BHC	ug/kg	1.8 U	-	37 U	1.8 U	1.9 U	2.0 U	1.9 U
delta-BHC	ug/kg	1.8 U	-	36 U	87 U	1.9 U	2.0 U	93 U
Dieldrin	ug/kg	1.1 U	-	24 U	1.1 U	1.2 U	1.3 U	1.2 U
Endosulfan I	ug/kg	1.2 U	-	26 U	1.2 U	1.3 U	1.4 U	1.3 U
Endosulfan II	ug/kg	1.5 U	-	32 U	1.5 U	1.6 U	1.8 U	1.6 U
Endosulfan sulfate	ug/kg	1.3 U	-	28 U	66 U	1.4 U	1.5 U	71 U
Endrin	ug/kg	2.0 U	-	41 U	2.0 U	2.1 U	2.2 U	2.1 U
Endrin aldehyde	ug/kg	1.4 U	-	28 U	67 U	1.5 U	1.5 U	72 U
Endrin ketone	ug/kg	0.92 U	-	19 U	0.92 U	0.99 U	1.1 U	0.98 U
gamma-BHC (lindane)	ug/kg	1.9 U	-	39 U	1.8 U	2.0 U	2.1 U	2.0 U
gamma-Chlordane	ug/kg	1.3 U	-	27 U	1.3 U	1.4 U	1.5 U	1.4 U
Heptachlor	ug/kg	1.6 U	-	34 U	1.6 U	1.8 U	1.9 U	1.7 U
Heptachlor epoxide	ug/kg	1.5 U	-	31 U	1.5 U	1.6 U	1.7 U	1.6 U
Methoxychlor	ug/kg	6.8 UJ	-	140 U	6.8 UJ	7.3 UJ	7.8 UJ	7.2 U
Toxaphene	ug/kg	26 U	-	540 U	26 U	28 U	30 U	28 U

Table 3

Summary of Analytical Results
Soil/Fill Samples - EU3
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH157-18**	**GP07-18**	**SS-146**	**SS-147**	**SS-149**	**SS-150**	**SS-151**
Sample ID:		**S-38443-051718-JC-083**	**SO-38443-080118-JC-121**	**S-38443-052918-JC-098**	**S-38443-052918-JC-091**	**S-38443-052918-JC-095**	**S-38443-052918-JC-093**	**S-38443-051618-JC-073**
Sample Date:		**5/17/2018**	**8/1/2018**	**5/29/2018**	**5/29/2018**	**5/29/2018**	**5/29/2018**	**5/16/2018**
Sample Depth:		**12-14 ft BGS**	**12-13 ft bgs**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**							
Herbicides								
2,4,5-TP (Silvex)	ug/kg	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	-	-	-	-	-	-	-
Asbestos								
Asbestos	%	ND	-	-	-	-	-	-
Geotechnical								
Coarse sand	%	-	15.4	-	-	-	-	-
Fine sand	%	-	7.4	-	-	-	-	-
Fines	%	-	7.7	-	-	-	-	-
Gravel	%	-	49.2	-	-	-	-	-
Medium sand	%	-	20.4	-	-	-	-	-
Sand	%	-	43.2	-	-	-	-	-
Sieve, #4	% passed	-	50.8	-	-	-	-	-
Sieve, #10	% passed	-	35.4	-	-	-	-	-
Sieve, #20	% passed	-	24.2	-	-	-	-	-
Sieve, #40	% passed	-	15.0	-	-	-	-	-
Sieve, #60	% passed	-	11.1	-	-	-	-	-
Sieve, #80	% passed	-	9.9	-	-	-	-	-
Sieve, #100	% passed	-	9.3	-	-	-	-	-
Sieve, #200	% passed	-	7.7	-	-	-	-	-
Sieve, 0.375 inch	% passed	-	64.0	-	-	-	-	-
Sieve, 0.75 inch	% passed	-	77.5	-	-	-	-	-
Sieve, 1 inch	% passed	-	100.0	-	-	-	-	-
Sieve, 1.5 inch	% passed	-	100.0	-	-	-	-	-
Sieve, 2 inch	% passed	-	100.0	-	-	-	-	-
Sieve, 3 inch	% passed	-	100.0	-	-	-	-	-
General Chemistry								
Cyanide (total)	mg/kg	0.19 U	-	0.22 U	0.18 U	0.21 U	0.19 U	0.23 U
Total solids	%	-	-	-	-	-	-	-

Notes
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 3

Summary of Analytical Results
Soil/Fill Samples - EU3
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-153**	**TT-18**	**TT-18**
Sample ID:		**S-38443-051718-JC-075**	**S-38443-100108-KMV-036**	**S-38443-100108-KMV-037**
Sample Date:		**5/17/2018**	**10/1/2008**	**10/1/2008**
Sample Depth:		**0-2 ft BGS**	**5 ft BGS**	**12 ft BGS**
Parameters	**Units**			
Volatiles				
1,1,1-Trichloroethane	ug/kg	0.18 U	R	4.9 U
1,1,2,2-Tetrachloroethane	ug/kg	0.21 U	R	4.9 U
1,1,2-Trichloroethane	ug/kg	0.31 U	R	4.9 U
1,1-Dichloroethane	ug/kg	0.26 U	R	4.9 U
1,1-Dichloroethene	ug/kg	0.43 U	R	4.9 U
1,2,4-Trichlorobenzene	ug/kg	0.19 UJ	R	4.9 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	0.54 UJ	R	9.8 U
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	0.28 U	R	4.9 U
1,2-Dichlorobenzene	ug/kg	0.18 U	R	4.9 U
1,2-Dichloroethane	ug/kg	0.23 U	R	4.9 U
1,2-Dichloropropane	ug/kg	0.25 U	R	4.9 U
1,3-Dichlorobenzene	ug/kg	0.23 U	R	4.9 U
1,4-Dichlorobenzene	ug/kg	0.28 U	23 J	4.9 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	9.9 J	R	20 U
2-Hexanone	ug/kg	0.46 U	R	20 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	0.71 U	R	20 U
Acetone	ug/kg	55	R	20 U
Benzene	ug/kg	0.26 U	R	4.9 U
Bromodichloromethane	ug/kg	0.26 U	R	4.9 U
Bromoform	ug/kg	0.32 U	R	4.9 U
Bromomethane (Methyl bromide)	ug/kg	0.47 U	R	4.9 U
Carbon disulfide	ug/kg	0.17 U	R	4.9 U
Carbon tetrachloride	ug/kg	0.20 U	R	4.9 U
Chlorobenzene	ug/kg	0.26 U	R	4.9 U
Chloroethane	ug/kg	0.30 U	R	4.9 U
Chloroform (Trichloromethane)	ug/kg	0.18 U	R	4.9 U
Chloromethane (Methyl chloride)	ug/kg	0.30 U	R	4.9 U
cis-1,2-Dichloroethene	ug/kg	0.47 J	R	4.9 U
cis-1,3-Dichloropropene	ug/kg	0.21 U	R	4.9 U
Cyclohexane	ug/kg	0.17 U	210 J	9.8 U
Dibromochloromethane	ug/kg	0.24 U	R	4.9 U
Dichlorodifluoromethane (CFC-12)	ug/kg	0.28 U	R	4.9 U
Ethylbenzene	ug/kg	0.22 U	R	4.9 U
Isopropyl benzene	ug/kg	0.16 U	R	4.9 U
Methyl acetate	ug/kg	0.93 U	R	9.8 U
Methyl cyclohexane	ug/kg	0.18 U	410 J	0.74 J
Methyl tert butyl ether (MTBE)	ug/kg	0.22 U	R	20 U
Methylene chloride	ug/kg	0.19 U	500 J	4.9 U
Styrene	ug/kg	0.22 U	R	4.9 U
Tetrachloroethene	ug/kg	0.30 U	R	4.9 U
Toluene	ug/kg	0.27 U	R	4.9 U
trans-1,2-Dichloroethene	ug/kg	0.30 U	R	4.9 U
trans-1,3-Dichloropropene	ug/kg	0.17 U	R	4.9 U
Trichloroethene	ug/kg	0.33 U	R	4.9 U

Table 3

Summary of Analytical Results
Soil/Fill Samples - EU3
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-153**	**TT-18**	**TT-18**
Sample ID:		**S-38443-051718-JC-075**	**S-38443-100108-KMV-036**	**S-38443-100108-KMV-037**
Sample Date:		**5/17/2018**	**10/1/2008**	**10/1/2008**
Sample Depth:		**0-2 ft BGS**	**5 ft BGS**	**12 ft BGS**
Parameters	**Units**			
Trichlorofluoromethane (CFC-11)	ug/kg	0.19 U	R	4.9 U
Trifluorotrichloroethane (CFC-113)	ug/kg	0.39 U	R	4.9 U
Vinyl chloride	ug/kg	0.22 U	R	4.9 U
Xylenes (total)	ug/kg	0.32 U	R	2.1 J
Semi-Volatiles				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	43 U	140 U	110 U
2,4,5-Trichlorophenol	ug/kg	300 U	200 U	160 U
2,4,6-Trichlorophenol	ug/kg	270 U	200 U	160 U
2,4-Dichlorophenol	ug/kg	190 U	200 U	160 U
2,4-Dimethylphenol	ug/kg	170 U	200 U	160 U
2,4-Dinitrophenol	ug/kg	610 U	450 U	350 U
2,4-Dinitrotoluene	ug/kg	270 U	270 U	210 U
2,6-Dinitrotoluene	ug/kg	240 U	270 U	210 U
2-Chloronaphthalene	ug/kg	60 U	68 U	53 U
2-Chlorophenol	ug/kg	43 U	68 U	53 U
2-Methylnaphthalene	ug/kg	22 J	10	62
2-Methylphenol	ug/kg	130 U	270 U	210 U
2-Nitroaniline	ug/kg	170 U	270 U	210 U
2-Nitrophenol	ug/kg	56 U	68 U	53 U
3&4-Methylphenol	ug/kg	120 U	-	-
3,3'-Dichlorobenzidine	ug/kg	180 U	140 U	110 U
3-Nitroaniline	ug/kg	210 U	270 U	210 U
4,6-Dinitro-2-methylphenol	ug/kg	340 U	200 U	160 U
4-Bromophenyl phenyl ether	ug/kg	60 U	68 U	53 U
4-Chloro-3-methylphenol	ug/kg	190 U	200 U	160 U
4-Chloroaniline	ug/kg	130 U	200 U	160 U
4-Chlorophenyl phenyl ether	ug/kg	60 U	68 U	53 U
4-Methylphenol	ug/kg	-	270 U	210 U
4-Nitroaniline	ug/kg	260 U	270 U	210 U
4-Nitrophenol	ug/kg	400 U	450 U	350 U
Acenaphthene	ug/kg	57	9.1 U	140
Acenaphthylene	ug/kg	18 J	9.1 U	8.0
Acetophenone	ug/kg	47 U	140 U	110 U
Anthracene	ug/kg	380	9.1 U	50
Atrazine	ug/kg	150 U	270 U	210 U
Benzaldehyde	ug/kg	98 UJ	140 U	110 U
Benzo(a)anthracene	ug/kg	800	9.1 U	78
Benzo(a)pyrene	ug/kg	730	9.1 U	73
Benzo(b)fluoranthene	ug/kg	870	9.1 U	100
Benzo(g,h,i)perylene	ug/kg	450	9.1 U	50
Benzo(k)fluoranthene	ug/kg	340	9.1 U	42
Biphenyl (1,1-Biphenyl)	ug/kg	73 U	68 U	53 U
bis(2-Chloroethoxy)methane	ug/kg	51 U	140 U	110 U
bis(2-Chloroethyl)ether	ug/kg	51 U	140 U	110 U

Table 3

Summary of Analytical Results
Soil/Fill Samples - EU3
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-153**	**TT-18**	**TT-18**
Sample ID:		**S-38443-051718-JC-075**	**S-38443-100108-KMV-036**	**S-38443-100108-KMV-037**
Sample Date:		**5/17/2018**	**10/1/2008**	**10/1/2008**
Sample Depth:		**0-2 ft BGS**	**5 ft BGS**	**12 ft BGS**
Parameters	**Units**			
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	220 U	68 U	53 U
Butyl benzylphthalate (BBP)	ug/kg	94 U	68 U	53 U
Caprolactam	ug/kg	320 U	450 U	350 U
Carbazole	ug/kg	81 U	68 U	53 U
Chrysene	ug/kg	830	9.1 U	80
Dibenz(a,h)anthracene	ug/kg	100	9.1 U	11
Dibenzofuran	ug/kg	56 U	68 U	84
Diethyl phthalate	ug/kg	130 U	68 U	53 U
Dimethyl phthalate	ug/kg	60 U	68 U	53 U
Di-n-butylphthalate (DBP)	ug/kg	94 U	68 U	53 U
Di-n-octyl phthalate (DnOP)	ug/kg	120 U	68 U	53 U
Fluoranthene	ug/kg	1900	9.1 U	190
Fluorene	ug/kg	62	9.1 U	100
Hexachlorobenzene	ug/kg	9.0 U	9.1 U	7.1 U
Hexachlorobutadiene	ug/kg	51 U	68 U	53 U
Hexachlorocyclopentadiene	ug/kg	270 U	450 U	350 U
Hexachloroethane	ug/kg	39 U	68 U	53 U
Indeno(1,2,3-cd)pyrene	ug/kg	370	9.1 U	45
Isophorone	ug/kg	51 U	68 U	53 U
Naphthalene	ug/kg	21 J	9.1 U	46
Nitrobenzene	ug/kg	56 U	140 U	110 U
N-Nitrosodi-n-propylamine	ug/kg	47 U	68 U	53 U
N-Nitrosodiphenylamine	ug/kg	51 U	68 U	53 U
Pentachlorophenol	ug/kg	250 UJ	200 U	160 U
Phenanthrene	ug/kg	490	9.1 U	250
Phenol	ug/kg	34 U	68 U	53 U
Pyrene	ug/kg	1700	9.1 U	160
Metals				
Aluminum	mg/kg	3500 J	5680	2310
Antimony	mg/kg	0.15 J	0.78 J	6.4 U
Arsenic	mg/kg	5.7	17.7	2.9
Barium	mg/kg	32	389	17.8 J
Beryllium	mg/kg	0.27	0.97	0.099 J
Cadmium	mg/kg	0.20	0.68 U	0.10 J
Calcium	mg/kg	110000	5650	142000
Chromium	mg/kg	7.5	11.7	4.6
Chromium III (trivalent)	mg/kg	7.5	-	-
Chromium VI (hexavalent)	mg/kg	0.26 U	-	-
Cobalt	mg/kg	3.4	4.5 J	2.8 J
Copper	mg/kg	11	17.2	8.6
Iron	mg/kg	10000	9890	6040
Lead	mg/kg	9.1	6.4 J	9.1 J
Lead - coarse fraction	mg/kg	-	-	-
Lead - fine fraction	mg/kg	-	-	-

Table 3

Summary of Analytical Results
Soil/Fill Samples - EU3
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-153**	**TT-18**	**TT-18**
Sample ID:		**S-38443-051718-JC-075**	**S-38443-100108-KMV-036**	**S-38443-100108-KMV-037**
Sample Date:		**5/17/2018**	**10/1/2008**	**10/1/2008**
Sample Depth:		**0-2 ft BGS**	**5 ft BGS**	**12 ft BGS**
Parameters	**Units**			
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-
Magnesium	mg/kg	43000	1290	53600
Manganese	mg/kg	370 J	84.9	297
Mercury	mg/kg	0.022 J	0.14 U	0.11 U
Nickel	mg/kg	9.1	8.8	7.4
Potassium	mg/kg	500	1070	365 J
Selenium	mg/kg	0.24 J	3.7 J	26.6 U
Silver	mg/kg	0.021 J	1.4 U	1.1 U
Sodium	mg/kg	120 J	130 J	177 J
Thallium	mg/kg	0.11 J	0.54	0.11 U
Vanadium	mg/kg	12	28.2	6.2
Zinc	mg/kg	31	10.3	23.2
PCBs				
Aroclor-1016 (PCB-1016)	ug/kg	23 U	45 UJ	35 UJ
Aroclor-1221 (PCB-1221)	ug/kg	25 U	45 UJ	35 UJ
Aroclor-1232 (PCB-1232)	ug/kg	24 U	45 UJ	35 UJ
Aroclor-1242 (PCB-1242)	ug/kg	20 U	45 UJ	35 UJ
Aroclor-1248 (PCB-1248)	ug/kg	25 U	45 UJ	35 UJ
Aroclor-1254 (PCB-1254)	ug/kg	24 U	45 UJ	35 UJ
Aroclor-1260 (PCB-1260)	ug/kg	23 U	45 UJ	35 UJ
Pesticides				
4,4'-DDD	ug/kg	1.6 U	23 UJ	36 UJ
4,4'-DDE	ug/kg	1.7 U	23 U	36 U
4,4'-DDT	ug/kg	1.3 UJ	23 UJ	36 UJ
Aldrin	ug/kg	0.85 U	23 U	36 U
alpha-BHC	ug/kg	1.0 U	23 U	36 U
alpha-Chlordane	ug/kg	1.7 U	23 U	36 U
beta-BHC	ug/kg	1.9 U	23 U	36 U
delta-BHC	ug/kg	1.9 U	23 U	36 U
Dieldrin	ug/kg	1.2 U	23 U	36 U
Endosulfan I	ug/kg	1.3 U	23 U	36 U
Endosulfan II	ug/kg	1.6 U	23 U	36 U
Endosulfan sulfate	ug/kg	1.4 U	23 U	36 U
Endrin	ug/kg	2.1 U	23 U	36 U
Endrin aldehyde	ug/kg	1.5 U	23 U	36 U
Endrin ketone	ug/kg	0.99 U	23 U	36 U
gamma-BHC (lindane)	ug/kg	2.0 U	23 U	36 U
gamma-Chlordane	ug/kg	1.4 U	23 U	36 U
Heptachlor	ug/kg	1.7 U	23 U	36 U
Heptachlor epoxide	ug/kg	1.6 U	23 U	36 U
Methoxychlor	ug/kg	7.3 UJ	45 UJ	70 UJ
Toxaphene	ug/kg	28 U	910 UJ	1400 UJ

Table 3

Summary of Analytical Results
Soil/Fill Samples - EU3
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-153**	**TT-18**	**TT-18**
Sample ID:		**S-38443-051718-JC-075**	**S-38443-100108-KMV-036**	**S-38443-100108-KMV-037**
Sample Date:		**5/17/2018**	**10/1/2008**	**10/1/2008**
Sample Depth:		**0-2 ft BGS**	**5 ft BGS**	**12 ft BGS**
Parameters	**Units**			
Herbicides				
2,4,5-TP (Silvex)	ug/kg	-	27 U	21 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	-	110 U	85 U
Asbestos				
Asbestos	%	-	-	-
Geotechnical				
Coarse sand	%	-	-	-
Fine sand	%	-	-	-
Fines	%	-	-	-
Gravel	%	-	-	-
Medium sand	%	-	-	-
Sand	%	-	-	-
Sieve, #4	% passed	-	-	-
Sieve, #10	% passed	-	-	-
Sieve, #20	% passed	-	-	-
Sieve, #40	% passed	-	-	-
Sieve, #60	% passed	-	-	-
Sieve, #80	% passed	-	-	-
Sieve, #100	% passed	-	-	-
Sieve, #200	% passed	-	-	-
Sieve, 0.375 inch	% passed	-	-	-
Sieve, 0.75 inch	% passed	-	-	-
Sieve, 1 inch	% passed	-	-	-
Sieve, 1.5 inch	% passed	-	-	-
Sieve, 2 inch	% passed	-	-	-
Sieve, 3 inch	% passed	-	-	-
General Chemistry				
Cyanide (total)	mg/kg	0.21 U	0.68 U	0.52 J
Total solids	%	-	73.2	94.1

Notes
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 4

Summary of Analytical Results
Soil/ Fill Samples - EU4
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH146-18**	**BH147-18**	**BH148-18**	**BH149-18**	**BH150-18**	**BH151-18**	**GP08-19**
Sample ID:		**S-38443-051718-JC-082**	**S-38443-051718-JC-077**	**S-38443-051718-JC-079**	**S-38443-052918-JC-088**	**S-38443-052918-JC-086**	**S-38443-052918-JC-090**	**S-38443-011519-JC-154**
Sample Date:		**5/17/2018**	**5/17/2018**	**5/17/2018**	**5/29/2018**	**5/29/2018**	**5/29/2018**	**1/15/2019**
Sample Depth:		**13-15 ft BGS**	**12-14 ft BGS**	**6-8 ft BGS**	**10-12 ft BGS**	**13-15 ft BGS**	**10-12 ft BGS**	**11.67-12.67 ft BGS**
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/kg	0.58 UJ	0.21 U	R	0.75 UJ	0.93 U	0.75 U	0.82 U
1,1,2,2-Tetrachloroethane	ug/kg	0.65 UJ	0.23 U	R	R	1.6 U	1.3 U	1.4 U
1,1,2-Trichloroethane	ug/kg	0.98 UJ	0.35 U	R	R	1.3 U	1.0 U	1.1 U
1,1-Dichloroethane	ug/kg	0.83 UJ	0.30 U	R	0.64 UJ	0.78 U	0.64 U	0.69 U
1,1-Dichloroethene	ug/kg	1.4 UJ	0.48 U	R	0.83 UJ	1.0 U	0.83 U	0.90 U
1,2,4-Trichlorobenzene	ug/kg	0.60 UJ	0.22 UJ	R	R	0.65 U	0.52 U	0.57 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	1.7 UJ	0.61 UJ	R	R	4.1 U	3.3 U	3.6 U
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	0.88 UJ	0.31 U	R	R	0.87 U	0.71 U	0.77 U
1,2-Dichlorobenzene	ug/kg	0.55 UJ	0.20 U	R	R	1.3 U	1.0 U	1.1 U
1,2-Dichloroethane	ug/kg	0.73 UJ	0.26 U	R	0.71 UJ	0.87 U	0.71 U	0.77 U
1,2-Dichloropropane	ug/kg	0.78 UJ	0.28 U	R	0.78 UJ	0.96 U	0.78 U	0.85 U
1,3-Dichlorobenzene	ug/kg	0.73 UJ	0.26 U	R	R	0.92 U	0.75 U	0.82 U
1,4-Dichlorobenzene	ug/kg	0.88 UJ	0.31 U	R	R	1.0 U	0.81 U	0.88 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	9.9 J	1.1 U	R	3.3 UJ	5.8 J	6.0 J	3.6 U
2-Hexanone	ug/kg	1.5 UJ	0.52 U	R	R	4.6 U	3.7 U	4.1 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	2.2 UJ	0.80 U	R	3.4 UJ	4.2 U	3.4 U	3.7 U
Acetone	ug/kg	81 J	6.1 U	R	19 UJ	24 U	19 U	21 U
Benzene	ug/kg	0.90 J	0.46 J	R	0.64 UJ	0.79 U	0.64 U	0.70 U
Bromodichloromethane	ug/kg	0.83 UJ	0.30 U	R	0.62 UJ	0.77 U	0.62 U	0.68 U
Bromoform	ug/kg	1.0 UJ	0.36 U	R	R	2.7 U	2.2 U	2.4 U
Bromomethane (Methyl bromide)	ug/kg	1.5 UJ	0.53 U	R	0.91 UJ	1.1 U	0.91 U	0.99 U
Carbon disulfide	ug/kg	0.53 UJ	0.19 U	R	1.1 UJ	1.3 U	1.1 U	1.2 U
Carbon tetrachloride	ug/kg	0.63 UJ	0.22 U	R	3.0 UJ	3.7 U	3.0 U	3.3 U
Chlorobenzene	ug/kg	0.83 UJ	0.30 U	R	R	1.0 U	0.84 U	0.92 U
Chloroethane	ug/kg	0.96 UJ	0.34 U	R	1.1 UJ	1.4 U	1.1 U	1.2 U
Chloroform (Trichloromethane)	ug/kg	0.58 UJ	0.21 U	R	0.73 UJ	0.89 U	0.72 U	0.79 U
Chloromethane (Methyl chloride)	ug/kg	0.96 UJ	0.34 U	R	0.96 UJ	1.2 U	0.95 U	1.0 U
cis-1,2-Dichloroethene	ug/kg	0.70 UJ	0.25 U	R	0.60 UJ	0.73 U	0.60 U	0.65 U
cis-1,3-Dichloropropene	ug/kg	0.65 UJ	0.23 U	R	1.3 UJ	1.6 U	1.3 U	1.4 U
Cyclohexane	ug/kg	1.2 J	0.43 J	R	1.3 UJ	1.6 U	1.3 U	1.4 U
Dibromochloromethane	ug/kg	0.75 UJ	0.27 U	R	R	3.1 U	2.5 U	2.8 U
Dichlorodifluoromethane (CFC-12)	ug/kg	0.88 UJ	0.31 U	R	0.87 UJ	1.1 U	0.86 U	0.94 U
Ethylbenzene	ug/kg	0.68 UJ	0.78 J	R	R	1.2 U	0.96 U	1.0 U
Isopropyl benzene	ug/kg	0.50 UJ	0.18 U	R	R	0.94 U	0.76 U	0.83 U
Methyl acetate	ug/kg	2.9 UJ	1.0 U	R	3.1 UJ	3.8 U	3.1 U	3.4 U
Methyl cyclohexane	ug/kg	2.0 J	0.66 J	R	1.1 UJ	1.4 U	1.1 U	1.2 U
Methyl tert butyl ether (MTBE)	ug/kg	0.68 UJ	0.24 U	R	0.75 UJ	0.93 U	0.75 U	0.82 U
Methylene chloride	ug/kg	0.60 UJ	0.22 U	R	11 UJ	14 U	11 U	12 U
Styrene	ug/kg	0.68 UJ	0.24 U	R	R	1.3 U	1.1 U	1.2 U
Tetrachloroethene	ug/kg	0.93 UJ	0.34 J	R	R	0.82 U	0.67 U	0.73 U
Toluene	ug/kg	1.2 J	1.8 J	R	R	0.87 U	0.71 U	1.0 J
trans-1,2-Dichloroethene	ug/kg	0.96 UJ	0.34 U	R	0.43 UJ	0.52 U	0.43 U	0.46 U
trans-1,3-Dichloropropene	ug/kg	0.53 UJ	0.19 U	R	R	1.2 U	0.95 U	1.0 U
Trichloroethene	ug/kg	1.0 UJ	0.37 U	R	0.58 UJ	0.71 U	0.58 U	0.63 U

Table 4

Summary of Analytical Results
Soil/ Fill Samples - EU4
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH146-18**	**BH147-18**	**BH148-18**	**BH149-18**	**BH150-18**	**BH151-18**	**GP08-19**
Sample ID:		**S-38443-051718-JC-082**	**S-38443-051718-JC-077**	**S-38443-051718-JC-079**	**S-38443-052918-JC-088**	**S-38443-052918-JC-086**	**S-38443-052918-JC-090**	**S-38443-011519-JC-154**
Sample Date:		**5/17/2018**	**5/17/2018**	**5/17/2018**	**5/29/2018**	**5/29/2018**	**5/29/2018**	**1/15/2019**
Sample Depth:		**13-15 ft BGS**	**12-14 ft BGS**	**6-8 ft BGS**	**10-12 ft BGS**	**13-15 ft BGS**	**10-12 ft BGS**	**11.67-12.67 ft BGS**
Parameters	**Units**							
Trichlorofluoromethane (CFC-11)	ug/kg	0.60 UJ	0.22 U	R	0.99 UJ	1.2 U	0.99 U	1.1 U
Trifluorotrichloroethane (CFC-113)	ug/kg	1.2 UJ	0.44 U	R	1.2 UJ	1.4 U	1.2 U	1.3 U
Vinyl chloride	ug/kg	0.70 UJ	0.25 U	R	0.77 UJ	0.94 U	0.77 U	0.84 U
Xylenes (total)	ug/kg	1.0 UJ	1.4 J	R	R	1.8 U	1.5 U	1.6 U
Semi-Volatiles								
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	19 U	11 U	15 U	11 U	12 U	12 U	-
2,4,5-Trichlorophenol	ug/kg	130 U	75 U	110 U	79 U	85 U	81 U	-
2,4,6-Trichlorophenol	ug/kg	120 U	69 U	99 U	74 U	78 U	75 U	-
2,4-Dichlorophenol	ug/kg	83 U	48 U	68 U	51 U	54 U	52 U	-
2,4-Dimethylphenol	ug/kg	75 U	43 U	62 U	46 U	49 U	47 U	-
2,4-Dinitrophenol	ug/kg	270 U	150 U	220 U	160 U	170 U	170 U	-
2,4-Dinitrotoluene	ug/kg	120 U	67 U	95 U	71 U	76 U	73 U	-
2,6-Dinitrotoluene	ug/kg	110 U	61 U	86 U	64 U	69 U	66 U	-
2-Chloronaphthalene	ug/kg	26 U	15 U	22 U	16 U	17 U	16 U	-
2-Chlorophenol	ug/kg	19 U	11 U	15 U	11 U	12 U	12 U	-
2-Methylnaphthalene	ug/kg	0.94 U	16	6.8 J	46	15	33	-
2-Methylphenol	ug/kg	58 U	34 U	48 U	36 U	38 U	36 U	-
2-Nitroaniline	ug/kg	75 U	43 U	62 U	46 UJ	49 UJ	47 U	-
2-Nitrophenol	ug/kg	24 U	14 U	20 U	15 U	16 U	15 U	-
3&4-Methylphenol	ug/kg	55 U	31 U	45 U	33 U	36 U	34 U	-
3,3'-Dichlorobenzidine	ug/kg	81 U	47 U	66 U	49 U	53 U	50 U	-
3-Nitroaniline	ug/kg	92 U	53 U	75 U	56 U	60 U	57 U	-
4,6-Dinitro-2-methylphenol	ug/kg	150 U	87 U	120 U	92 U	98 U	94 U	-
4-Bromophenyl phenyl ether	ug/kg	26 U	15 U	22 U	16 U	17 U	16 U	-
4-Chloro-3-methylphenol	ug/kg	85 U	49 U	69 U	52 U	55 U	53 U	-
4-Chloroaniline	ug/kg	57 U	32 U	46 U	34 U	37 U	35 U	-
4-Chlorophenyl phenyl ether	ug/kg	26 U	15 U	22 U	16 U	17 U	16 U	-
4-Methylphenol	ug/kg	-	-	-	-	-	-	-
4-Nitroaniline	ug/kg	110 U	65 U	92 U	69 U	74 U	70 U	-
4-Nitrophenol	ug/kg	180 U	100 U	140 U	110 U	120 U	110 U	-
Acenaphthene	ug/kg	1.4 U	4.4 J	1.2 U	0.87 U	0.93 U	7.3 J	-
Acenaphthylene	ug/kg	0.66 U	0.38 U	0.54 U	0.40 U	21	30	-
Acetophenone	ug/kg	21 U	12 U	17 U	13 U	13 U	13 U	-
Anthracene	ug/kg	1.5 U	11	1.2 U	8.6	31	25	-
Atrazine	ug/kg	68 U	39 U	55 U	41 U	44 U	42 U	-
Benzaldehyde	ug/kg	43 UJ	25 UJ	35 UJ	26 UJ	28 UJ	27 U	-
Benzo(a)anthracene	ug/kg	13	42	0.97 U	25	110	150	-
Benzo(a)pyrene	ug/kg	10 J	36	0.99 U	27	120	140	-
Benzo(b)fluoranthene	ug/kg	12 J	55	0.91 U	33	180	200	-
Benzo(g,h,i)perylene	ug/kg	7.9 J	26	0.54 U	23	74	120	-
Benzo(k)fluoranthene	ug/kg	1.3 U	17	1.0 U	0.78 U	63	66	-
Biphenyl (1,1-Biphenyl)	ug/kg	32 U	18 U	26 U	20 U	21 U	20 U	-
bis(2-Chloroethoxy)methane	ug/kg	23 U	13 U	18 U	14 U	15 U	14 U	-
bis(2-Chloroethyl)ether	ug/kg	23 U	13 U	18 U	14 U	15 U	14 U	-

Table 4

Summary of Analytical Results
Soil/ Fill Samples - EU4
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH146-18**	**BH147-18**	**BH148-18**	**BH149-18**	**BH150-18**	**BH151-18**	**GP08-19**
Sample ID:		**S-38443-051718-JC-082**	**S-38443-051718-JC-077**	**S-38443-051718-JC-079**	**S-38443-052918-JC-088**	**S-38443-052918-JC-086**	**S-38443-052918-JC-090**	**S-38443-011519-JC-154**
Sample Date:		**5/17/2018**	**5/17/2018**	**5/17/2018**	**5/29/2018**	**5/29/2018**	**5/29/2018**	**1/15/2019**
Sample Depth:		**13-15 ft BGS**	**12-14 ft BGS**	**6-8 ft BGS**	**10-12 ft BGS**	**13-15 ft BGS**	**10-12 ft BGS**	**11.67-12.67 ft BGS**
Parameters	**Units**							
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	96 U	55 U	210	92	78 J	60 U	-
Butyl benzylphthalate (BBP)	ug/kg	41 U	24 U	34 U	25 U	27 U	26 U	-
Caprolactam	ug/kg	140 U	81 U	120 U	86 U	92 U	88 U	-
Carbazole	ug/kg	36 U	21 U	29 U	22 U	24 J	22 J	-
Chrysene	ug/kg	13	47	1.7 U	38	140	180	-
Dibenz(a,h)anthracene	ug/kg	1.2 U	6.2 J	1.0 U	0.76 U	23	28	-
Dibenzofuran	ug/kg	24 U	14 U	20 U	15 U	16 U	15 U	-
Diethyl phthalate	ug/kg	58 U	34 U	48 U	36 U	38 U	36 U	-
Dimethyl phthalate	ug/kg	26 U	15 U	22 U	16 U	17 U	16 U	-
Di-n-butylphthalate (DBP)	ug/kg	41 U	26 J	34 U	25 U	27 U	26 U	-
Di-n-octyl phthalate (DnOP)	ug/kg	53 U	30 U	43 U	32 U	34 U	33 U	-
Fluoranthene	ug/kg	24	87	0.85 U	46	280	250	-
Fluorene	ug/kg	1.0 U	3.8 J	0.82 U	0.61 U	16	0.62 U	-
Hexachlorobenzene	ug/kg	4.0 U	2.3 U	3.2 U	2.4 U	2.6 U	2.5 U	-
Hexachlorobutadiene	ug/kg	23 U	13 U	18 U	14 U	15 U	14 U	-
Hexachlorocyclopentadiene	ug/kg	120 U	67 U	95 U	71 U	76 U	73 U	-
Hexachloroethane	ug/kg	17 U	9.7 U	14 U	10 U	11 U	11 U	-
Indeno(1,2,3-cd)pyrene	ug/kg	0.66 U	19	0.54 U	0.40 U	68	94	-
Isophorone	ug/kg	23 U	13 U	18 U	14 UJ	15 UJ	14 UJ	-
Naphthalene	ug/kg	1.5 U	10	13	24	1.0 U	27	-
Nitrobenzene	ug/kg	24 U	14 U	20 U	15 UJ	16 UJ	15 UJ	-
N-Nitrosodi-n-propylamine	ug/kg	21 U	12 U	17 U	13 UJ	13 UJ	13 UJ	-
N-Nitrosodiphenylamine	ug/kg	23 U	13 U	18 U	14 U	15 U	14 U	-
Pentachlorophenol	ug/kg	110 U	63 U	89 U	67 U	71 U	68 U	-
Phenanthrene	ug/kg	20	47	5.8 J	54	150	130	-
Phenol	ug/kg	15 U	8.7 U	12 U	9.2 U	9.8 U	9.4 U	-
Pyrene	ug/kg	24	74	0.68 U	47	240	260	-
Metals								
Aluminum	mg/kg	2400 J	2500 J	9200 J	5000	10000	6700	-
Antimony	mg/kg	0.20 UJ	0.12 UJ	1.1 J	0.34 J	0.22 J	0.24 J	-
Arsenic	mg/kg	0.74 J	5.0	56	15	9.0	8.6	-
Barium	mg/kg	9.6	16	160	110	79	74	-
Beryllium	mg/kg	0.23 J	0.19 J	5.1	0.96	0.64	0.49	-
Cadmium	mg/kg	0.070 U	0.13 J	0.21 J	0.15 J	0.19 J	0.26	-
Calcium	mg/kg	410000	130000	5400	66000	30000	31000	-
Chromium	mg/kg	2.9	8.1	19	9.3	15	12	-
Chromium III (trivalent)	mg/kg	2.1	7.6	18	8.5	15	12	-
Chromium VI (hexavalent)	mg/kg	0.86 J	0.52 J	1.2	0.85 J	1.5 U	1.4 U	-
Cobalt	mg/kg	0.77	2.6	15	4.3	7.6	6.5	-
Copper	mg/kg	3.5	7.9	45	19	20	19	-
Iron	mg/kg	1200	6700	9900	7900	19000	14000	-
Lead	mg/kg	2.1	4.2	19	12	30	40	-
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-

Table 4

Summary of Analytical Results
Soil/ Fill Samples - EU4
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH146-18**	**BH147-18**	**BH148-18**	**BH149-18**	**BH150-18**	**BH151-18**	**GP08-19**
Sample ID:		**S-38443-051718-JC-082**	**S-38443-051718-JC-077**	**S-38443-051718-JC-079**	**S-38443-052918-JC-088**	**S-38443-052918-JC-086**	**S-38443-052918-JC-090**	**S-38443-011519-JC-154**
Sample Date:		**5/17/2018**	**5/17/2018**	**5/17/2018**	**5/29/2018**	**5/29/2018**	**5/29/2018**	**1/15/2019**
Sample Depth:		**13-15 ft BGS**	**12-14 ft BGS**	**6-8 ft BGS**	**10-12 ft BGS**	**13-15 ft BGS**	**10-12 ft BGS**	**11.67-12.67 ft BGS**
Parameters	**Units**							
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-
Magnesium	mg/kg	1500	51000	1100	28000	11000	13000	-
Manganese	mg/kg	37 J	280 J	76 J	160	350	620	-
Mercury	mg/kg	0.034 U	0.019 U	0.35	0.067 J	0.043 J	0.21	-
Nickel	mg/kg	11	7.6	36	11	14	12	-
Potassium	mg/kg	180 J	480	1500	880	1000	870	-
Selenium	mg/kg	0.58 J	0.15 J	10	1.2	1.4	0.96 J	-
Silver	mg/kg	0.036 U	0.022 U	0.065 J	0.037 J	0.054 J	0.081 J	-
Sodium	mg/kg	83 U	140 J	270	150 J	67 J	59 J	-
Thallium	mg/kg	0.078 U	0.083 J	1.5	0.38	0.28	0.16 J	-
Vanadium	mg/kg	14	9.0	70	22	26	20	-
Zinc	mg/kg	6.5	24	31	28	57	84	-
PCBs								
Aroclor-1016 (PCB-1016)	ug/kg	42 U	25 U	34 U	25 U	26 U	25 U	-
Aroclor-1221 (PCB-1221)	ug/kg	46 U	27 U	37 U	28 U	29 U	27 U	-
Aroclor-1232 (PCB-1232)	ug/kg	44 U	26 U	36 U	27 U	28 U	26 U	-
Aroclor-1242 (PCB-1242)	ug/kg	37 U	21 U	30 U	22 U	23 U	22 U	-
Aroclor-1248 (PCB-1248)	ug/kg	46 U	27 U	37 U	28 U	29 U	27 U	-
Aroclor-1254 (PCB-1254)	ug/kg	44 U	26 U	36 U	37 J	210	31 J	-
Aroclor-1260 (PCB-1260)	ug/kg	42 U	25 U	34 U	25 U	26 U	25 U	-
Pesticides								
4,4'-DDD	ug/kg	2.8 U	1.7 U	2.2 U	1.7 U	1.8 U	1.7 U	-
4,4'-DDE	ug/kg	2.8 U	1.7 U	2.2 U	1.7 U	1.8 U	1.7 U	-
4,4'-DDT	ug/kg	2.1 UJ	1.3 UJ	1.7 UJ	1.3 U	3.7 NJ	1.3 U	-
Aldrin	ug/kg	1.4 U	0.88 U	1.1 U	0.89 U	0.93 U	0.88 U	-
alpha-BHC	ug/kg	1.7 U	1.0 U	1.4 U	1.1 U	1.1 U	1.0 U	-
alpha-Chlordane	ug/kg	2.8 U	1.7 U	2.2 U	1.7 U	1.8 U	1.7 U	-
beta-BHC	ug/kg	3.2 U	2.0 U	2.6 U	2.0 U	2.1 U	2.0 U	-
delta-BHC	ug/kg	3.2 U	1.9 U	2.5 U	2.0 U	2.0 U	1.9 U	-
Dieldrin	ug/kg	2.1 U	1.3 U	1.6 U	1.3 U	1.3 U	1.3 U	-
Endosulfan I	ug/kg	2.3 U	1.4 U	1.8 U	1.4 U	1.4 U	1.4 U	-
Endosulfan II	ug/kg	2.8 U	1.7 U	2.2 U	1.7 U	1.8 U	1.7 U	-
Endosulfan sulfate	ug/kg	2.4 U	1.5 U	1.9 U	1.5 U	1.5 U	1.5 U	-
Endrin	ug/kg	3.6 U	2.2 U	2.8 U	2.2 U	2.3 U	2.2 U	-
Endrin aldehyde	ug/kg	2.5 U	1.5 U	1.9 U	1.5 U	1.9 J	1.5 U	-
Endrin ketone	ug/kg	1.7 U	1.0 U	1.3 U	1.0 U	1.1 U	1.0 U	-
gamma-BHC (lindane)	ug/kg	3.4 U	2.0 U	2.7 U	2.1 U	2.2 U	2.0 U	-
gamma-Chlordane	ug/kg	2.3 U	1.4 U	1.8 U	1.4 U	1.5 U	1.4 U	-
Heptachlor	ug/kg	3.0 U	1.8 U	2.4 U	1.8 U	1.9 U	1.8 U	-
Heptachlor epoxide	ug/kg	2.7 U	1.6 U	2.1 U	1.7 U	1.7 U	1.6 U	-
Methoxychlor	ug/kg	12 UJ	7.5 UJ	9.8 UJ	7.6 UJ	7.9 UJ	7.5 UJ	-
Toxaphene	ug/kg	47 U	29 U	37 U	29 U	30 U	29 U	-

Table 4

Summary of Analytical Results
Soil/ Fill Samples - EU4
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH146-18**	**BH147-18**	**BH148-18**	**BH149-18**	**BH150-18**	**BH151-18**	**GP08-19**
Sample ID:		**S-38443-051718-JC-082**	**S-38443-051718-JC-077**	**S-38443-051718-JC-079**	**S-38443-052918-JC-088**	**S-38443-052918-JC-086**	**S-38443-052918-JC-090**	**S-38443-011519-JC-154**
Sample Date:		**5/17/2018**	**5/17/2018**	**5/17/2018**	**5/29/2018**	**5/29/2018**	**5/29/2018**	**1/15/2019**
Sample Depth:		**13-15 ft BGS**	**12-14 ft BGS**	**6-8 ft BGS**	**10-12 ft BGS**	**13-15 ft BGS**	**10-12 ft BGS**	**11.67-12.67 ft BGS**
Parameters	**Units**							
Herbicides								
2,4,5-TP (Silvex)	ug/kg	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	-	-	-	-	-	-	-
Asbestos								
Asbestos	%	ND	ND	ND	ND	ND	ND	-
Geotechnical								
Coarse sand	%	-	-	-	-	-	-	6.9
Fine sand	%	-	-	-	-	-	-	20.2
Fines	%	-	-	-	-	-	-	14.4
Gravel	%	-	-	-	-	-	-	33.9
Medium sand	%	-	-	-	-	-	-	24.6
Sand	%	-	-	-	-	-	-	51.7
Sieve, #4	% passed	-	-	-	-	-	-	66.1
Sieve, #10	% passed	-	-	-	-	-	-	59.2
Sieve, #20	% passed	-	-	-	-	-	-	49.8
Sieve, #40	% passed	-	-	-	-	-	-	34.6
Sieve, #60	% passed	-	-	-	-	-	-	21.7
Sieve, #80	% passed	-	-	-	-	-	-	18.2
Sieve, #100	% passed	-	-	-	-	-	-	16.9
Sieve, #200	% passed	-	-	-	-	-	-	14.4
Sieve, 0.375 inch	% passed	-	-	-	-	-	-	71.8
Sieve, 0.75 inch	% passed	-	-	-	-	-	-	81.8
Sieve, 1 inch	% passed	-	-	-	-	-	-	100.0
Sieve, 1.5 inch	% passed	-	-	-	-	-	-	100.0
Sieve, 2 inch	% passed	-	-	-	-	-	-	100.0
Sieve, 3 inch	% passed	-	-	-	-	-	-	100.0
General Chemistry								
Cyanide (total)	mg/kg	1.3	0.22 U	0.29 U	0.20 U	0.22 U	0.22 J	-
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	0.5
Total solids	%	-	-	-	-	-	-	-

Notes
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 4

Summary of Analytical Results
Soil/ Fill Samples - EU4
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-138**	**SS-138**	**SS-139**	**SS-140**	**SS-142**	**SS-144**	**SS-145**
Sample ID:		**S-38443-051718-JC-080**	**S-38443-051718-JC-081**	**S-38443-051718-JC-076**	**S-38443-051718-JC-078**	**S-38443-052918-JC-085**	**S-38443-052918-JC-087**	**S-38443-052918-JC-089**
Sample Date:		**5/17/2018**	**5/17/2018**	**5/17/2018**	**5/17/2018**	**5/29/2018**	**5/29/2018**	**5/29/2018**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.17-2.17 ft BGS**	**0-2 ft BGS**	**0.17-2.17 ft BGS**	**0-2 ft BGS**
			Duplicate					
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/kg	1.0 J	94 J	0.41 UJ	50 UJ	0.90 U	0.71 U	0.70 U
1,1,2,2-Tetrachloroethane	ug/kg	R	R	R	43 UJ	1.6 U	1.2 U	1.2 U
1,1,2-Trichloroethane	ug/kg	0.63 UJ	R	R	41 UJ	1.2 U	0.97 U	0.97 U
1,1-Dichloroethane	ug/kg	0.53 U	R	0.59 UJ	56 UJ	0.76 U	0.60 U	0.59 U
1,1-Dichloroethene	ug/kg	0.88 U	R	0.97 UJ	65 UJ	0.99 U	0.78 U	0.77 U
1,2,4-Trichlorobenzene	ug/kg	R	R	R	47 UJ	0.62 U	0.49 U	0.49 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	R	R	R	86 UJ	3.9 U	3.1 U	3.1 U
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	0.57 UJ	R	R	41 UJ	0.84 U	0.66 U	0.66 U
1,2-Dichlorobenzene	ug/kg	R	R	R	32 UJ	1.2 U	0.96 U	0.95 U
1,2-Dichloroethane	ug/kg	0.47 U	R	0.52 UJ	54 UJ	0.84 U	0.66 U	0.66 U
1,2-Dichloropropane	ug/kg	0.50 U	R	0.56 UJ	54 UJ	0.93 U	0.73 U	0.73 U
1,3-Dichlorobenzene	ug/kg	R	R	R	68 UJ	0.89 U	0.70 U	0.70 U
1,4-Dichlorobenzene	ug/kg	R	R	R	49 UJ	0.96 U	0.76 U	0.76 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	2.1 U	R	2.3 UJ	90 UJ	3.9 U	3.1 U	3.0 U
2-Hexanone	ug/kg	0.94 UJ	R	R	150 UJ	4.5 U	3.5 U	3.5 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	1.4 U	R	1.6 UJ	72 UJ	4.1 U	3.2 U	3.2 U
Acetone	ug/kg	5.0 U	R	5.5 UJ	170 UJ	23 U	18 U	18 U
Benzene	ug/kg	0.52 U	R	0.58 UJ	43 UJ	0.76 U	0.60 U	0.60 U
Bromodichloromethane	ug/kg	0.53 U	R	0.59 UJ	32 UJ	0.74 U	0.58 U	0.58 U
Bromoform	ug/kg	0.65 UJ	R	R	41 UJ	2.6 U	2.1 U	2.1 U
Bromomethane (Methyl bromide)	ug/kg	0.96 U	R	1.1 UJ	50 UJ	1.1 U	0.85 U	0.85 U
Carbon disulfide	ug/kg	0.34 U	R	0.38 UJ	32 UJ	1.3 U	1.0 U	1.0 U
Carbon tetrachloride	ug/kg	0.41 U	R	0.45 UJ	49 UJ	3.6 U	2.8 U	2.8 U
Chlorobenzene	ug/kg	0.53 UJ	R	R	54 UJ	1.0 U	0.79 U	0.79 U
Chloroethane	ug/kg	0.62 U	R	0.68 UJ	50 UJ	1.3 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	ug/kg	0.37 U	R	0.41 UJ	43 UJ	0.86 U	0.68 U	0.68 U
Chloromethane (Methyl chloride)	ug/kg	0.62 U	R	0.68 UJ	32 UJ	1.1 U	0.90 U	0.89 U
cis-1,2-Dichloroethene	ug/kg	0.45 U	R	0.50 UJ	63 UJ	0.71 U	0.56 U	0.56 U
cis-1,3-Dichloropropene	ug/kg	0.42 U	R	0.47 UJ	41 UJ	1.6 U	1.2 U	1.2 U
Cyclohexane	ug/kg	0.34 U	R	0.38 UJ	54 UJ	1.5 U	1.2 U	1.2 U
Dibromochloromethane	ug/kg	0.49 UJ	R	R	61 UJ	3.0 U	2.4 U	2.4 U
Dichlorodifluoromethane (CFC-12)	ug/kg	0.57 U	R	0.63 UJ	40 UJ	1.0 U	0.81 U	0.81 U
Ethylbenzene	ug/kg	0.44 UJ	R	R	63 UJ	1.1 U	0.90 U	0.90 U
Isopropyl benzene	ug/kg	0.32 UJ	R	R	61 UJ	0.91 U	0.72 U	0.71 U
Methyl acetate	ug/kg	1.9 U	R	2.1 UJ	130 UJ	3.7 U	2.9 U	2.9 U
Methyl cyclohexane	ug/kg	0.37 U	R	0.55 J	67 UJ	1.3 U	1.1 U	1.1 U
Methyl tert butyl ether (MTBE)	ug/kg	0.44 U	R	0.49 UJ	47 UJ	0.90 U	0.71 U	0.70 U
Methylene chloride	ug/kg	0.39 U	R	0.43 UJ	120 UJ	13 U	10 U	10 U
Styrene	ug/kg	0.44 UJ	R	R	18 UJ	1.3 U	1.0 U	0.99 U
Tetrachloroethene	ug/kg	0.60 UJ	R	R	72 J	0.80 U	0.63 U	0.63 U
Toluene	ug/kg	0.55 UJ	R	R	43 UJ	0.84 U	0.66 U	0.66 U
trans-1,2-Dichloroethene	ug/kg	0.62 U	R	0.68 UJ	63 UJ	0.51 U	0.40 U	0.40 U
trans-1,3-Dichloropropene	ug/kg	0.34 UJ	R	R	27 UJ	1.1 U	0.89 U	0.89 U
Trichloroethene	ug/kg	0.66 U	R	0.74 UJ	67 UJ	0.69 U	0.54 U	0.54 U

Table 4

Summary of Analytical Results
Soil/ Fill Samples - EU4
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-138**	**SS-138**	**SS-139**	**SS-140**	**SS-142**	**SS-144**	**SS-145**
Sample ID:		**S-38443-051718-JC-080**	**S-38443-051718-JC-081**	**S-38443-051718-JC-076**	**S-38443-051718-JC-078**	**S-38443-052918-JC-085**	**S-38443-052918-JC-087**	**S-38443-052918-JC-089**
Sample Date:		**5/17/2018**	**5/17/2018**	**5/17/2018**	**5/17/2018**	**5/29/2018**	**5/29/2018**	**5/29/2018**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.17-2.17 ft BGS**	**0-2 ft BGS**	**0.17-2.17 ft BGS**	**0-2 ft BGS**
			Duplicate					
Parameters	**Units**							
Trichlorofluoromethane (CFC-11)	ug/kg	0.39 U	R	0.43 UJ	61 UJ	1.2 U	0.93 U	0.92 U
Trifluorotrichloroethane (CFC-113)	ug/kg	0.79 U	R	0.88 UJ	41 UJ	1.4 U	1.1 U	1.1 U
Vinyl chloride	ug/kg	0.45 U	R	0.50 UJ	31 UJ	0.91 U	0.72 U	0.72 U
Xylenes (total)	ug/kg	0.65 UJ	R	R	50 UJ	1.7 U	1.4 U	1.4 U
Semi-Volatiles								
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	16 U	16 U	11 U	14 U	46 U	11 U	28 U
2,4,5-Trichlorophenol	ug/kg	110 U	110 U	77 U	96 U	320 U	79 U	190 U
2,4,6-Trichlorophenol	ug/kg	100 U	110 U	71 U	89 U	290 U	73 U	180 U
2,4-Dichlorophenol	ug/kg	72 U	72 U	49 U	61 U	200 U	50 U	120 U
2,4-Dimethylphenol	ug/kg	66 U	66 U	44 U	56 U	180 U	46 U	110 U
2,4-Dinitrophenol	ug/kg	230 U	230 U	160 U	200 U	650 U	160 U	400 U
2,4-Dinitrotoluene	ug/kg	100 U	100 U	69 U	86 U	280 U	71 U	170 U
2,6-Dinitrotoluene	ug/kg	92 U	92 U	62 U	78 U	260 U	64 U	160 U
2-Chloronaphthalene	ug/kg	23 U	23 U	16 U	20 U	64 U	16 U	39 U
2-Chlorophenol	ug/kg	16 U	16 U	11 U	14 U	46 U	11 U	28 U
2-Methylnaphthalene	ug/kg	11	14	240	6.4 J	2.3 U	69	100
2-Methylphenol	ug/kg	51 U	51 U	34 U	43 U	140 U	36 U	87 U
2-Nitroaniline	ug/kg	66 U	66 U	44 U	56 U	180 UJ	46 U	110 U
2-Nitrophenol	ug/kg	21 U	21 U	14 U	18 U	59 U	15 U	37 U
3&4-Methylphenol	ug/kg	48 U	48 U	32 U	40 U	130 U	33 U	82 U
3,3'-Dichlorobenzidine	ug/kg	71 U	71 U	48 U	60 U	200 U	49 U	120 U
3-Nitroaniline	ug/kg	80 U	81 U	55 U	68 U	220 U	56 U	140 U
4,6-Dinitro-2-methylphenol	ug/kg	130 U	130 U	89 U	110 U	370 U	92 U	230 U
4-Bromophenyl phenyl ether	ug/kg	23 U	23 U	16 U	20 U	64 U	16 U	39 U
4-Chloro-3-methylphenol	ug/kg	74 U	74 U	50 U	63 U	210 U	52 U	130 U
4-Chloroaniline	ug/kg	49 U	49 U	33 U	42 U	140 U	34 U	85 U
4-Chlorophenyl phenyl ether	ug/kg	23 U	23 U	16 U	20 U	64 U	16 U	39 U
4-Methylphenol	ug/kg	-	-	-	-	-	-	-
4-Nitroaniline	ug/kg	98 U	99 U	67 U	84 U	270 U	69 U	170 U
4-Nitrophenol	ug/kg	150 U	150 U	100 U	130 U	430 U	110 U	270 U
Acenaphthene	ug/kg	1.2 U	1.3 U	0.85 U	1.1 U	3.5 U	0.87 U	190
Acenaphthylene	ug/kg	0.57 U	0.58 U	8.8	0.49 U	25 J	0.40 U	45
Acetophenone	ug/kg	18 U	18 U	25 J	15 U	50 U	13 U	31 U
Anthracene	ug/kg	1.3 U	7.3 J	13	1.1 U	120	0.90 U	480
Atrazine	ug/kg	59 U	59 U	40 U	50 U	160 U	41 U	100 U
Benzaldehyde	ug/kg	57 J	120 J	39 J	32 UJ	110 UJ	26 U	65 U
Benzo(a)anthracene	ug/kg	11	27	65	14	660	13	1100
Benzo(a)pyrene	ug/kg	8.7 J	27	55	12	690	11	1100
Benzo(b)fluoranthene	ug/kg	15	38	94	20	1000	14	1300
Benzo(g,h,i)perylene	ug/kg	7.9 J	20	64	11	400	0.40 U	790
Benzo(k)fluoranthene	ug/kg	1.1 U	12	28	7.1 J	410	0.78 U	480
Biphenyl (1,1-Biphenyl)	ug/kg	28 U	28 U	25 J	24 U	78 U	20 U	48 U
bis(2-Chloroethoxy)methane	ug/kg	20 U	20 U	13 U	17 U	55 U	14 U	34 U
bis(2-Chloroethyl)ether	ug/kg	20 U	20 U	13 U	17 U	55 U	14 U	34 U

Table 4

Summary of Analytical Results
Soil/ Fill Samples - EU4
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-138**	**SS-138**	**SS-139**	**SS-140**	**SS-142**	**SS-144**	**SS-145**
Sample ID:		**S-38443-051718-JC-080**	**S-38443-051718-JC-081**	**S-38443-051718-JC-076**	**S-38443-051718-JC-078**	**S-38443-052918-JC-085**	**S-38443-052918-JC-087**	**S-38443-052918-JC-089**
Sample Date:		**5/17/2018**	**5/17/2018**	**5/17/2018**	**5/17/2018**	**5/29/2018**	**5/29/2018**	**5/29/2018**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.17-2.17 ft BGS**	**0-2 ft BGS**	**0.17-2.17 ft BGS**	**0-2 ft BGS**
			Duplicate					
Parameters	**Units**							
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	84 U	110 J	57 U	71 U	4700	59 U	140 U
Butyl benzylphthalate (BBP)	ug/kg	36 U	36 U	24 U	31 U	100 U	25 U	62 U
Caprolactam	ug/kg	120 U	120 U	83 U	100 U	340 U	86 U	210 U
Carbazole	ug/kg	31 U	31 U	21 U	26 U	87 U	22 U	130 J
Chrysene	ug/kg	12	28	97	17	730	13	1100
Dibenz(a,h)anthracene	ug/kg	1.1 U	1.1 U	12	0.92 U	130	0.76 U	180
Dibenzofuran	ug/kg	21 U	21 U	67	18 U	59 U	16 J	100 J
Diethyl phthalate	ug/kg	51 U	51 U	34 U	43 U	140 U	36 U	87 U
Dimethyl phthalate	ug/kg	23 U	23 U	16 U	20 U	64 U	16 U	39 U
Di-n-butylphthalate (DBP)	ug/kg	36 U	36 U	26 J	250	100 U	25 U	62 U
Di-n-octyl phthalate (DnOP)	ug/kg	46 U	46 U	31 U	39 U	130 U	32 U	79 U
Fluoranthene	ug/kg	28 J	63 J	99	33	1200	19	2900
Fluorene	ug/kg	0.87 U	0.87 U	8.5	0.74 U	43	0.61 U	150
Hexachlorobenzene	ug/kg	3.4 U	3.5 U	2.3 U	2.9 U	9.6 U	2.4 U	5.9 U
Hexachlorobutadiene	ug/kg	20 U	20 U	13 U	17 U	55 U	14 U	34 U
Hexachlorocyclopentadiene	ug/kg	100 U	100 U	69 U	86 U	280 U	71 U	170 U
Hexachloroethane	ug/kg	15 U	15 U	10 U	13 U	41 U	10 U	25 U
Indeno(1,2,3-cd)pyrene	ug/kg	5.5 J	13	32	7.0 J	350	0.40 U	610
Isophorone	ug/kg	20 U	20 U	13 U	17 U	55 UJ	14 UJ	34 U
Naphthalene	ug/kg	12	17	150	10	21 J	48	91
Nitrobenzene	ug/kg	21 U	21 U	14 U	18 U	59 UJ	15 UJ	37 U
N-Nitrosodi-n-propylamine	ug/kg	18 U	18 U	12 U	15 U	50 UJ	13 UJ	31 U
N-Nitrosodiphenylamine	ug/kg	20 U	20 U	13 U	17 U	55 U	14 U	34 U
Pentachlorophenol	ug/kg	95 U	95 U	65 UJ	81 U	260 U	67 U	160 U
Phenanthrene	ug/kg	22	37	210	15	490	59	1900
Phenol	ug/kg	27 J	13 J	8.9 U	11 U	37 U	9.2 U	23 U
Pyrene	ug/kg	25 J	57 J	100	29	1100	20	2400
Metals								
Aluminum	mg/kg	13000 J	15000 J	4800 J	7500 J	7100	8300	6000
Antimony	mg/kg	0.66 J	0.82 J	0.23 J	12 J	0.56 J	0.16 J	0.36 J
Arsenic	mg/kg	31	33	7.4	50	7.3	10	8.9
Barium	mg/kg	270	420	54	420	91	50	96
Beryllium	mg/kg	4.4	5.2	0.51	3.2	0.51	0.58	0.59
Cadmium	mg/kg	0.20 J	0.30	0.32	0.29	0.92	0.16 J	0.53
Calcium	mg/kg	100000	73000	47000	52000	51000	53000	64000
Chromium	mg/kg	15	16	10	17	21	11	11
Chromium III (trivalent)	mg/kg	14	15	9.9	17	21	11	10
Chromium VI (hexavalent)	mg/kg	1.3	1.1 J	0.51 J	0.54 J	0.28 U	0.28 U	0.66 J
Cobalt	mg/kg	12	16	5.2	27	5.6	6.9	5.3
Copper	mg/kg	44	54	16	35	92	17	35
Iron	mg/kg	11000	17000	11000	12000	14000	18000	15000
Lead	mg/kg	25	35	20	25	57	13	130
Lead - coarse fraction	mg/kg	-	-	-	-	33 J	-	-
Lead - fine fraction	mg/kg	-	-	-	-	50	-	-

Table 4

Summary of Analytical Results
Soil/ Fill Samples - EU4
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-138**	**SS-138**	**SS-139**	**SS-140**	**SS-142**	**SS-144**	**SS-145**
Sample ID:		**S-38443-051718-JC-080**	**S-38443-051718-JC-081**	**S-38443-051718-JC-076**	**S-38443-051718-JC-078**	**S-38443-052918-JC-085**	**S-38443-052918-JC-087**	**S-38443-052918-JC-089**
Sample Date:		**5/17/2018**	**5/17/2018**	**5/17/2018**	**5/17/2018**	**5/29/2018**	**5/29/2018**	**5/29/2018**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.17-2.17 ft BGS**	**0-2 ft BGS**	**0.17-2.17 ft BGS**	**0-2 ft BGS**
			Duplicate					
Parameters	**Units**							
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	36	-	-
Magnesium	mg/kg	3700	8900	19000	21000	21000	26000	23000
Manganese	mg/kg	130 J	230 J	320 J	280 J	370	410	410
Mercury	mg/kg	0.19	0.23	0.040 J	0.25	0.026 J	0.029 J	0.45
Nickel	mg/kg	29	34	12	51	33	18	12
Potassium	mg/kg	1100	2200	590	1200	790	940	790
Selenium	mg/kg	5.3	5.3	0.43 J	4.0	0.53 J	0.52 J	0.81 J
Silver	mg/kg	0.092 J	0.14 J	0.051 J	0.085 J	1.9	0.032 J	0.17 J
Sodium	mg/kg	140 J	230 J	71 J	400	160 J	79 J	95 J
Thallium	mg/kg	0.95	1.3	0.13 J	0.96	0.18 J	0.30	0.21
Vanadium	mg/kg	56	61	15	38	19	20	17
Zinc	mg/kg	32	46	53	130	74	53	280
PCBs								
Aroclor-1016 (PCB-1016)	ug/kg	36 U	36 U	24 U	30 U	25 U	27 U	25 U
Aroclor-1221 (PCB-1221)	ug/kg	39 U	39 U	27 U	33 U	27 U	29 U	28 U
Aroclor-1232 (PCB-1232)	ug/kg	38 U	37 U	25 U	32 U	26 U	28 U	26 U
Aroclor-1242 (PCB-1242)	ug/kg	31 U	31 U	21 U	26 U	21 U	23 U	22 U
Aroclor-1248 (PCB-1248)	ug/kg	39 U	39 U	27 U	33 U	27 U	29 U	28 U
Aroclor-1254 (PCB-1254)	ug/kg	38 U	37 U	25 U	32 U	110	28 U	27 J
Aroclor-1260 (PCB-1260)	ug/kg	36 U	36 U	24 U	30 U	25 U	27 U	25 U
Pesticides								
4,4'-DDD	ug/kg	2.5 U	2.8 NJ	1.8 J	2.1 U	1.7 U	1.9 J	17 U
4,4'-DDE	ug/kg	2.5 U	2.5 U	1.6 U	2.1 U	1.7 U	8.3	17 U
4,4'-DDT	ug/kg	1.9 UJ	1.8 UJ	2.5 J	1.6 UJ	2.3 NJ	4.6 J	13 U
Aldrin	ug/kg	1.3 U	1.3 U	0.83 U	1.1 U	0.86 U	0.94 U	8.9 U
alpha-BHC	ug/kg	1.5 U	1.5 U	0.98 U	1.3 U	1.0 U	1.1 U	10 U
alpha-Chlordane	ug/kg	2.5 U	2.4 U	1.6 U	2.1 U	1.7 U	2.5 J	17 U
beta-BHC	ug/kg	2.9 U	2.8 U	1.9 U	2.4 U	1.9 U	2.1 U	20 U
delta-BHC	ug/kg	2.8 U	2.7 U	1.8 U	2.4 U	1.9 U	2.1 U	19 U
Dieldrin	ug/kg	1.8 U	1.8 U	1.2 U	1.5 U	1.2 U	1.3 U	13 U
Endosulfan I	ug/kg	2.0 U	1.9 U	1.3 U	1.7 U	1.3 U	1.5 U	14 U
Endosulfan II	ug/kg	2.5 U	2.4 U	1.6 U	2.1 U	1.7 U	1.8 U	17 U
Endosulfan sulfate	ug/kg	2.1 U	2.1 U	1.4 U	1.8 U	1.4 U	1.6 U	15 U
Endrin	ug/kg	3.2 U	3.1 U	2.0 U	2.7 U	2.1 U	2.3 U	22 U
Endrin aldehyde	ug/kg	2.2 U	2.1 U	1.4 U	1.8 U	1.5 U	1.6 U	15 U
Endrin ketone	ug/kg	1.5 U	1.4 U	0.96 U	1.2 U	1.4 NJ	1.1 U	21 J
gamma-BHC (lindane)	ug/kg	3.0 U	2.9 U	1.9 U	2.5 U	2.0 U	2.2 U	21 U
gamma-Chlordane	ug/kg	2.0 U	2.0 U	1.3 U	1.7 U	2.8 J	2.7 J	14 U
Heptachlor	ug/kg	2.6 U	2.6 U	1.7 U	2.2 U	1.8 U	1.9 U	18 U
Heptachlor epoxide	ug/kg	2.4 U	2.3 U	1.6 U	2.0 U	1.6 U	1.8 U	17 U
Methoxychlor	ug/kg	11 UJ	11 UJ	7.1 UJ	9.2 UJ	7.3 UJ	8.0 UJ	75 UJ
Toxaphene	ug/kg	42 U	41 U	27 U	35 U	28 U	30 U	290 U

Table 4

Summary of Analytical Results
Soil/ Fill Samples - EU4
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-138**	**SS-138**	**SS-139**	**SS-140**	**SS-142**	**SS-144**	**SS-145**
Sample ID:		**S-38443-051718-JC-080**	**S-38443-051718-JC-081**	**S-38443-051718-JC-076**	**S-38443-051718-JC-078**	**S-38443-052918-JC-085**	**S-38443-052918-JC-087**	**S-38443-052918-JC-089**
Sample Date:		**5/17/2018**	**5/17/2018**	**5/17/2018**	**5/17/2018**	**5/29/2018**	**5/29/2018**	**5/29/2018**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.17-2.17 ft BGS**	**0-2 ft BGS**	**0.17-2.17 ft BGS**	**0-2 ft BGS**
			Duplicate					
Parameters	**Units**							
Herbicides								
2,4,5-TP (Silvex)	ug/kg	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	-	-	-	-	-	-	-
Asbestos								
Asbestos	%	-	-	-	-	-	-	-
Geotechnical								
Coarse sand	%	-	-	-	-	-	-	-
Fine sand	%	-	-	-	-	-	-	-
Fines	%	-	-	-	-	-	-	-
Gravel	%	-	-	-	-	-	-	-
Medium sand	%	-	-	-	-	-	-	-
Sand	%	-	-	-	-	-	-	-
Sieve, #4	% passed	-	-	-	-	-	-	-
Sieve, #10	% passed	-	-	-	-	-	-	-
Sieve, #20	% passed	-	-	-	-	-	-	-
Sieve, #40	% passed	-	-	-	-	-	-	-
Sieve, #60	% passed	-	-	-	-	-	-	-
Sieve, #80	% passed	-	-	-	-	-	-	-
Sieve, #100	% passed	-	-	-	-	-	-	-
Sieve, #200	% passed	-	-	-	-	-	-	-
Sieve, 0.375 inch	% passed	-	-	-	-	-	-	-
Sieve, 0.75 inch	% passed	-	-	-	-	-	-	-
Sieve, 1 inch	% passed	-	-	-	-	-	-	-
Sieve, 1.5 inch	% passed	-	-	-	-	-	-	-
Sieve, 2 inch	% passed	-	-	-	-	-	-	-
Sieve, 3 inch	% passed	-	-	-	-	-	-	-
General Chemistry								
Cyanide (total)	mg/kg	0.79 J	0.51 J	0.67	0.26 U	0.22 U	0.21 U	0.22 U
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-

Notes
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 4

Summary of Analytical Results
Soil/ Fill Samples - EU4
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-17**	**TT-17**
Sample ID:		**S-38443-093008-KMV-034**	**S-38443-093008-KMV-035**
Sample Date:		**9/30/2008**	**9/30/2008**
Sample Depth:		**5 ft BGS**	**14 ft BGS**
Parameters	**Units**		
Volatiles			
1,1,1-Trichloroethane	ug/kg	5.0 U	6.1 U
1,1,2,2-Tetrachloroethane	ug/kg	5.0 U	6.1 U
1,1,2-Trichloroethane	ug/kg	5.0 U	6.1 U
1,1-Dichloroethane	ug/kg	5.0 U	6.1 U
1,1-Dichloroethene	ug/kg	5.0 U	6.1 U
1,2,4-Trichlorobenzene	ug/kg	5.0 U	6.1 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	10 U	12 U
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	5.0 U	6.1 U
1,2-Dichlorobenzene	ug/kg	5.0 U	6.1 U
1,2-Dichloroethane	ug/kg	5.0 U	6.1 U
1,2-Dichloropropane	ug/kg	5.0 U	6.1 U
1,3-Dichlorobenzene	ug/kg	5.0 U	6.1 U
1,4-Dichlorobenzene	ug/kg	5.0 U	6.1 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	20 U	24 U
2-Hexanone	ug/kg	20 U	24 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	20 U	24 U
Acetone	ug/kg	20 U	24 U
Benzene	ug/kg	5.0 U	6.1 U
Bromodichloromethane	ug/kg	5.0 U	6.1 U
Bromoform	ug/kg	5.0 U	6.1 U
Bromomethane (Methyl bromide)	ug/kg	5.0 U	6.1 U
Carbon disulfide	ug/kg	5.0 U	6.1 U
Carbon tetrachloride	ug/kg	5.0 U	6.1 U
Chlorobenzene	ug/kg	5.0 U	6.1 U
Chloroethane	ug/kg	5.0 U	6.1 U
Chloroform (Trichloromethane)	ug/kg	5.0 U	6.1 U
Chloromethane (Methyl chloride)	ug/kg	5.0 U	6.1 U
cis-1,2-Dichloroethene	ug/kg	5.0 U	6.1 U
cis-1,3-Dichloropropene	ug/kg	5.0 U	6.1 U
Cyclohexane	ug/kg	10 U	12 U
Dibromochloromethane	ug/kg	5.0 U	6.1 U
Dichlorodifluoromethane (CFC-12)	ug/kg	5.0 U	6.1 U
Ethylbenzene	ug/kg	5.0 U	6.1 U
Isopropyl benzene	ug/kg	5.0 U	6.1 U
Methyl acetate	ug/kg	10 U	12 U
Methyl cyclohexane	ug/kg	10 U	12 U
Methyl tert butyl ether (MTBE)	ug/kg	20 U	24 U
Methylene chloride	ug/kg	5.0 U	6.1 U
Styrene	ug/kg	5.0 U	6.1 U
Tetrachloroethene	ug/kg	5.0 U	6.1 U
Toluene	ug/kg	5.0 U	6.1 U
trans-1,2-Dichloroethene	ug/kg	5.0 U	6.1 U
trans-1,3-Dichloropropene	ug/kg	5.0 U	6.1 U
Trichloroethene	ug/kg	5.0 U	6.1 U

Table 4

Summary of Analytical Results
Soil/ Fill Samples - EU4
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-17**	**TT-17**
Sample ID:		**S-38443-093008-KMV-034**	**S-38443-093008-KMV-035**
Sample Date:		**9/30/2008**	**9/30/2008**
Sample Depth:		**5 ft BGS**	**14 ft BGS**
Parameters	**Units**		
Trichlorofluoromethane (CFC-11)	ug/kg	5.0 U	6.1 U
Trifluorotrichloroethane (CFC-113)	ug/kg	5.0 U	6.1 U
Vinyl chloride	ug/kg	5.0 U	6.1 U
Xylenes (total)	ug/kg	10 U	12 U
Semi-Volatiles			
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	110 U	500 U
2,4,5-Trichlorophenol	ug/kg	160 U	750 U
2,4,6-Trichlorophenol	ug/kg	160 U	750 U
2,4-Dichlorophenol	ug/kg	160 U	750 U
2,4-Dimethylphenol	ug/kg	160 U	750 U
2,4-Dinitrophenol	ug/kg	360 U	1600 U
2,4-Dinitrotoluene	ug/kg	220 U	1000 U
2,6-Dinitrotoluene	ug/kg	220 U	1000 U
2-Chloronaphthalene	ug/kg	55 U	250 U
2-Chlorophenol	ug/kg	55 U	250 U
2-Methylnaphthalene	ug/kg	7.3 U	42
2-Methylphenol	ug/kg	220 U	1000 U
2-Nitroaniline	ug/kg	220 U	1000 U
2-Nitrophenol	ug/kg	55 U	250 U
3&4-Methylphenol	ug/kg	-	-
3,3'-Dichlorobenzidine	ug/kg	110 U	500 U
3-Nitroaniline	ug/kg	220 U	1000 U
4,6-Dinitro-2-methylphenol	ug/kg	160 U	750 U
4-Bromophenyl phenyl ether	ug/kg	55 U	250 U
4-Chloro-3-methylphenol	ug/kg	160 U	750 U
4-Chloroaniline	ug/kg	160 U	750 U
4-Chlorophenyl phenyl ether	ug/kg	55 U	250 U
4-Methylphenol	ug/kg	220 U	1000 U
4-Nitroaniline	ug/kg	220 U	1000 U
4-Nitrophenol	ug/kg	360 U	1600 U
Acenaphthene	ug/kg	8.5	250
Acenaphthylene	ug/kg	7.3 U	33 U
Acetophenone	ug/kg	110 U	500 U
Anthracene	ug/kg	18	370
Atrazine	ug/kg	220 U	1000 U
Benzaldehyde	ug/kg	110 U	500 U
Benzo(a)anthracene	ug/kg	84	1200
Benzo(a)pyrene	ug/kg	89	990
Benzo(b)fluoranthene	ug/kg	120	1300
Benzo(g,h,i)perylene	ug/kg	67	560
Benzo(k)fluoranthene	ug/kg	59	600
Biphenyl (1,1-Biphenyl)	ug/kg	55 U	250 U
bis(2-Chloroethoxy)methane	ug/kg	110 U	500 U
bis(2-Chloroethyl)ether	ug/kg	110 U	500 U

Table 4

Summary of Analytical Results
Soil/ Fill Samples - EU4
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-17**	**TT-17**
Sample ID:		**S-38443-093008-KMV-034**	**S-38443-093008-KMV-035**
Sample Date:		**9/30/2008**	**9/30/2008**
Sample Depth:		**5 ft BGS**	**14 ft BGS**
Parameters	**Units**		
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	55 U	250 U
Butyl benzylphthalate (BBP)	ug/kg	55 U	250 U
Caprolactam	ug/kg	360 U	1600 U
Carbazole	ug/kg	55 U	400
Chrysene	ug/kg	110	1400
Dibenz(a,h)anthracene	ug/kg	14	140
Dibenzofuran	ug/kg	55 U	180 J
Diethyl phthalate	ug/kg	55 U	250 U
Dimethyl phthalate	ug/kg	55 U	250 U
Di-n-butylphthalate (DBP)	ug/kg	55 U	250 U
Di-n-octyl phthalate (DnOP)	ug/kg	55 U	250 U
Fluoranthene	ug/kg	230	3700
Fluorene	ug/kg	8.5	250
Hexachlorobenzene	ug/kg	7.3 U	33 U
Hexachlorobutadiene	ug/kg	55 U	250 U
Hexachlorocyclopentadiene	ug/kg	360 U	1600 U
Hexachloroethane	ug/kg	55 U	250 U
Indeno(1,2,3-cd)pyrene	ug/kg	55	530
Isophorone	ug/kg	55 U	250 U
Naphthalene	ug/kg	7.3 U	110
Nitrobenzene	ug/kg	110 U	500 U
N-Nitrosodi-n-propylamine	ug/kg	55 U	250 U
N-Nitrosodiphenylamine	ug/kg	55 U	250 U
Pentachlorophenol	ug/kg	160 U	750 U
Phenanthrene	ug/kg	140	3400
Phenol	ug/kg	55 U	250 U
Pyrene	ug/kg	180	2900
Metals			
Aluminum	mg/kg	6830	3180
Antimony	mg/kg	6.6 UJ	0.65 J
Arsenic	mg/kg	6.8	10.9
Barium	mg/kg	78.0	73.0
Beryllium	mg/kg	0.33 J	0.36 J
Cadmium	mg/kg	0.18 J	0.11 J
Calcium	mg/kg	50600 J	27500 J
Chromium	mg/kg	10.4	8.1
Chromium III (trivalent)	mg/kg	-	-
Chromium VI (hexavalent)	mg/kg	-	-
Cobalt	mg/kg	6.3	2.6 J
Copper	mg/kg	12.3	21.3
Iron	mg/kg	14200	12000
Lead	mg/kg	14.9 J	7.5 J
Lead - coarse fraction	mg/kg	-	-
Lead - fine fraction	mg/kg	-	-

Table 4

Summary of Analytical Results
Soil/ Fill Samples - EU4
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-17**	**TT-17**
Sample ID:		**S-38443-093008-KMV-034**	**S-38443-093008-KMV-035**
Sample Date:		**9/30/2008**	**9/30/2008**
Sample Depth:		**5 ft BGS**	**14 ft BGS**
Parameters	**Units**		
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-
Magnesium	mg/kg	13800	13400
Manganese	mg/kg	441 J	76.0 J
Mercury	mg/kg	0.040 J	0.054 J
Nickel	mg/kg	11.0	7.5
Potassium	mg/kg	725 J	399 J
Selenium	mg/kg	27.5 U	1.1 J
Silver	mg/kg	1.1 U	1.2 U
Sodium	mg/kg	550 U	625 U
Thallium	mg/kg	0.15 U	0.46
Vanadium	mg/kg	18.1 J	13.8 J
Zinc	mg/kg	40.0 J	27.3 J
PCBs			
Aroclor-1016 (PCB-1016)	ug/kg	36 UJ	41 U
Aroclor-1221 (PCB-1221)	ug/kg	36 UJ	41 U
Aroclor-1232 (PCB-1232)	ug/kg	36 UJ	41 U
Aroclor-1242 (PCB-1242)	ug/kg	36 UJ	41 U
Aroclor-1248 (PCB-1248)	ug/kg	36 UJ	59
Aroclor-1254 (PCB-1254)	ug/kg	36 UJ	41 U
Aroclor-1260 (PCB-1260)	ug/kg	36 UJ	41 U
Pesticides			
4,4'-DDD	ug/kg	190 UJ	42 UJ
4,4'-DDE	ug/kg	190 U	42 U
4,4'-DDT	ug/kg	190 UJ	42 UJ
Aldrin	ug/kg	190 U	42 U
alpha-BHC	ug/kg	190 U	42 U
alpha-Chlordane	ug/kg	190 U	42 U
beta-BHC	ug/kg	190 U	42 U
delta-BHC	ug/kg	190 U	42 U
Dieldrin	ug/kg	190 U	42 U
Endosulfan I	ug/kg	190 U	42 U
Endosulfan II	ug/kg	190 U	42 U
Endosulfan sulfate	ug/kg	190 U	42 U
Endrin	ug/kg	190 U	42 U
Endrin aldehyde	ug/kg	190 U	42 U
Endrin ketone	ug/kg	190 U	42 U
gamma-BHC (lindane)	ug/kg	190 U	42 U
gamma-Chlordane	ug/kg	190 U	42 U
Heptachlor	ug/kg	190 U	42 U
Heptachlor epoxide	ug/kg	190 U	42 U
Methoxychlor	ug/kg	360 UJ	82 UJ
Toxaphene	ug/kg	7400 UJ	1700 UJ

Table 4

Summary of Analytical Results
Soil/ Fill Samples - EU4
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-17**	**TT-17**
Sample ID:		**S-38443-093008-KMV-034**	**S-38443-093008-KMV-035**
Sample Date:		**9/30/2008**	**9/30/2008**
Sample Depth:		**5 ft BGS**	**14 ft BGS**
Parameters	**Units**		
Herbicides			
2,4,5-TP (Silvex)	ug/kg	22 U	25 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	88 U	100 U
Asbestos			
Asbestos	%	-	-
Geotechnical			
Coarse sand	%	-	-
Fine sand	%	-	-
Fines	%	-	-
Gravel	%	-	-
Medium sand	%	-	-
Sand	%	-	-
Sieve, #4	% passed	-	-
Sieve, #10	% passed	-	-
Sieve, #20	% passed	-	-
Sieve, #40	% passed	-	-
Sieve, #60	% passed	-	-
Sieve, #80	% passed	-	-
Sieve, #100	% passed	-	-
Sieve, #200	% passed	-	-
Sieve, 0.375 inch	% passed	-	-
Sieve, 0.75 inch	% passed	-	-
Sieve, 1 inch	% passed	-	-
Sieve, 1.5 inch	% passed	-	-
Sieve, 2 inch	% passed	-	-
Sieve, 3 inch	% passed	-	-
General Chemistry			
Cyanide (total)	mg/kg	0.55 U	0.25 J
Fraction organic carbon (FOC)	%	-	-
Total solids	%	91.0	80.1

Notes
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 5

Summary of Analytical Results
Soil/Fill Samples - EU5, 6, 7, 8
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH122-18**	**BH125-18**	**BH126-18**	**BH127-18**	**BH128-18**	**BH129-18**	**BH130-18**
Sample ID:		**S-38443-053118-JC-115**	**S-38443-053018-JC-106**	**S-38443-053018-JC-101**	**S-38443-053018-JC-110**	**S-38443-053018-JC-108**	**S-38443-053018-JC-103**	**S-38443-053018-JC-112**
Sample Date:		**5/31/2018**	**5/30/2018**	**5/30/2018**	**5/30/2018**	**5/30/2018**	**5/30/2018**	**5/30/2018**
Sample Depth:		**6-8 ft BGS**	**7-9 ft BGS**	**10-12 ft BGS**	**7-9 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**	**9.5-11.5 ft BGS**
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/kg	0.74 U	0.75 U	0.75 U	0.78 U	1.2 UJ	0.71 U	0.83 U
1,1,2,2-Tetrachloroethane	ug/kg	1.3 U	1.3 U	1.3 U	1.4 U	2.1 UJ	1.2 U	1.4 U
1,1,2-Trichloroethane	ug/kg	1.0 U	1.0 U	1.0 U	1.1 U	1.6 UJ	0.99 U	1.1 U
1,1-Dichloroethane	ug/kg	0.63 U	0.63 U	0.63 U	0.66 U	1.0 UJ	0.60 U	0.70 U
1,1-Dichloroethene	ug/kg	0.82 U	0.82 U	0.82 U	0.86 U	1.3 UJ	0.79 U	0.91 U
1,2,4-Trichlorobenzene	ug/kg	0.52 U	0.52 U	0.52 U	0.54 U	0.83 UJ	0.50 U	0.58 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	3.3 U	3.3 U	3.3 U	3.4 U	5.2 UJ	3.1 U	3.6 U
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	0.70 U	0.70 U	0.70 U	0.73 U	1.1 UJ	0.67 U	0.78 U
1,2-Dichlorobenzene	ug/kg	1.0 U	1.0 U	1.0 U	1.1 U	1.6 UJ	0.97 U	1.1 U
1,2-Dichloroethane	ug/kg	0.70 U	0.71 U	0.70 U	0.73 U	1.1 UJ	0.67 U	0.78 U
1,2-Dichloropropane	ug/kg	0.77 U	0.78 U	0.77 U	0.81 U	1.2 UJ	0.74 U	0.86 U
1,3-Dichlorobenzene	ug/kg	0.74 U	0.75 U	0.74 U	0.77 U	1.2 UJ	0.71 U	0.82 U
1,4-Dichlorobenzene	ug/kg	0.80 U	0.81 U	0.80 U	0.84 U	1.3 UJ	0.77 U	0.89 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	8.6 J	24	3.2 J	3.4 U	16 J	5.7 J	3.6 U
2-Hexanone	ug/kg	3.7 U	3.7 U	3.7 U	3.9 U	5.9 UJ	3.6 U	4.1 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	3.4 U	3.4 U	3.4 U	3.5 U	5.4 UJ	3.2 U	3.7 U
Acetone	ug/kg	34	110 J	19 J	20 U	140 J	31 J	21 U
Benzene	ug/kg	0.63 U	0.64 U	0.64 U	0.66 U	1.0 UJ	0.61 U	0.70 U
Bromodichloromethane	ug/kg	0.62 U	0.62 U	0.62 U	0.64 U	0.98 UJ	0.59 U	0.68 U
Bromoform	ug/kg	2.2 U	2.2 U	2.2 U	2.3 U	3.5 UJ	2.1 U	2.4 U
Bromomethane (Methyl bromide)	ug/kg	0.90 U	0.90 U	0.90 U	0.94 U	1.4 UJ	0.86 U	1.0 U
Carbon disulfide	ug/kg	2.8 J	1.1 U	1.1 U	1.1 U	1.7 UJ	1.0 U	1.2 U
Carbon tetrachloride	ug/kg	3.0 U	3.0 U	3.0 U	3.1 U	4.7 UJ	2.8 U	3.3 U
Chlorobenzene	ug/kg	0.83 U	0.84 U	0.83 U	0.87 U	1.3 UJ	0.80 U	0.92 U
Chloroethane	ug/kg	1.1 U	1.1 U	1.1 U	1.2 U	1.8 UJ	1.1 U	1.2 U
Chloroform (Trichloromethane)	ug/kg	0.71 U	0.72 U	0.72 U	0.75 U	1.1 UJ	0.69 U	0.79 U
Chloromethane (Methyl chloride)	ug/kg	0.95 U	0.95 U	0.95 U	0.99 U	1.5 UJ	0.91 U	1.0 U
cis-1,2-Dichloroethene	ug/kg	0.59 U	0.59 U	0.59 U	5.0	0.94 UJ	0.57 U	0.66 U
cis-1,3-Dichloropropene	ug/kg	1.3 U	1.3 U	1.3 U	1.4 U	2.1 UJ	1.3 U	1.4 U
Cyclohexane	ug/kg	1.2 U	1.3 U	1.3 U	1.3 U	2.0 UJ	1.2 U	1.4 U
Dibromochloromethane	ug/kg	2.5 U	2.5 U	2.5 U	2.6 U	4.0 UJ	2.4 U	2.8 U
Dichlorodifluoromethane (CFC-12)	ug/kg	0.86 U	0.86 U	0.86 U	0.89 U	1.4 UJ	0.82 U	0.95 U
Ethylbenzene	ug/kg	0.95 U	0.96 U	0.95 U	0.99 U	1.5 UJ	0.91 U	1.1 U
Isopropyl benzene	ug/kg	0.75 U	0.76 U	0.76 U	0.79 U	1.2 UJ	0.73 U	0.84 U
Methyl acetate	ug/kg	3.1 U	3.1 U	3.1 U	3.2 U	4.9 UJ	3.0 U	3.4 U
Methyl cyclohexane	ug/kg	1.1 U	1.1 U	1.1 U	1.2 U	1.8 UJ	1.1 U	1.2 U
Methyl tert butyl ether (MTBE)	ug/kg	0.74 U	0.75 U	0.75 U	0.78 U	1.2 UJ	0.71 U	0.83 U
Methylene chloride	ug/kg	11 U	11 U	11 U	11 U	17 UJ	10 U	12 U
Styrene	ug/kg	1.1 U	1.1 U	1.1 U	1.1 U	1.7 UJ	1.0 U	1.2 U
Tetrachloroethene	ug/kg	0.66 U	0.67 U	0.66 U	0.69 U	1.1 UJ	0.64 U	8.4
Toluene	ug/kg	0.70 U	0.71 U	0.70 U	0.73 U	1.4 J	0.67 U	0.78 U
trans-1,2-Dichloroethene	ug/kg	0.42 U	0.42 U	0.42 U	0.44 U	0.67 UJ	0.41 U	0.47 U
trans-1,3-Dichloropropene	ug/kg	0.94 U	0.94 U	0.94 U	0.98 U	1.5 UJ	0.90 U	1.0 U
Trichloroethene	ug/kg	0.57 U	0.58 U	0.58 U	0.60 U	0.91 UJ	0.55 U	0.64 U

Table 5

Summary of Analytical Results
Soil/Fill Samples - EU5, 6, 7, 8
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH122-18**	**BH125-18**	**BH126-18**	**BH127-18**	**BH128-18**	**BH129-18**	**BH130-18**
Sample ID:		**S-38443-053118-JC-115**	**S-38443-053018-JC-106**	**S-38443-053018-JC-101**	**S-38443-053018-JC-110**	**S-38443-053018-JC-108**	**S-38443-053018-JC-103**	**S-38443-053018-JC-112**
Sample Date:		**5/31/2018**	**5/30/2018**	**5/30/2018**	**5/30/2018**	**5/30/2018**	**5/30/2018**	**5/30/2018**
Sample Depth:		**6-8 ft BGS**	**7-9 ft BGS**	**10-12 ft BGS**	**7-9 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**	**9.5-11.5 ft BGS**
Parameters	**Units**							
Trichlorofluoromethane (CFC-11)	ug/kg	0.98 U	0.98 U	0.98 U	1.0 U	1.6 UJ	0.94 U	1.1 U
Trifluorotrichloroethane (CFC-113)	ug/kg	1.2 U	1.2 U	1.2 U	1.2 U	1.8 UJ	1.1 U	1.3 U
Vinyl chloride	ug/kg	0.76 U	0.76 U	0.76 U	0.79 U	1.2 UJ	0.73 U	0.84 U
Xylenes (total)	ug/kg	1.4 U	1.4 U	1.4 U	1.5 U	2.3 UJ	1.4 U	1.6 U
Semi-Volatiles								
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	11 U	11 U	11 U	12 U	38 U	52 U	12 U
2,4,5-Trichlorophenol	ug/kg	75 U	78 U	76 U	81 U	260 U	360 U	80 U
2,4,6-Trichlorophenol	ug/kg	70 U	73 U	70 U	76 U	240 U	330 U	74 U
2,4-Dichlorophenol	ug/kg	48 U	50 U	48 U	52 U	170 U	230 U	51 U
2,4-Dimethylphenol	ug/kg	44 U	45 U	44 U	47 U	150 U	210 U	46 U
2,4-Dinitrophenol	ug/kg	150 U	160 U	160 U	170 U	540 U	740 U	160 U
2,4-Dinitrotoluene	ug/kg	67 U	70 U	68 U	73 U	230 U	320 U	72 U
2,6-Dinitrotoluene	ug/kg	61 U	64 U	62 U	66 U	210 U	290 U	65 U
2-Chloronaphthalene	ug/kg	15 U	16 U	15 U	17 U	53 U	73 U	16 U
2-Chlorophenol	ug/kg	11 U	11 U	11 U	12 U	38 U	52 U	12 U
2-Methylnaphthalene	ug/kg	27	78	110	0.59 U	130	520	12
2-Methylphenol	ug/kg	34 U	35 U	34 U	37 U	120 U	160 U	36 U
2-Nitroaniline	ug/kg	44 U	45 U	44 U	47 U	150 U	210 U	46 U
2-Nitrophenol	ug/kg	14 U	15 U	14 U	15 U	49 U	68 U	15 U
3&4-Methylphenol	ug/kg	32 U	33 U	32 U	34 U	110 U	150 U	34 U
3,3'-Dichlorobenzidine	ug/kg	47 U	49 U	47 U	51 U	160 U	220 U	50 U
3-Nitroaniline	ug/kg	53 U	56 U	54 U	58 U	190 U	260 U	57 U
4,6-Dinitro-2-methylphenol	ug/kg	87 U	91 U	88 U	94 U	300 U	420 U	92 U
4-Bromophenyl phenyl ether	ug/kg	15 U	16 U	15 U	17 U	53 U	73 U	16 U
4-Chloro-3-methylphenol	ug/kg	49 U	51 U	49 U	53 U	170 U	230 U	52 U
4-Chloroaniline	ug/kg	33 U	34 U	33 U	35 U	110 U	160 U	35 U
4-Chlorophenyl phenyl ether	ug/kg	15 U	16 U	15 U	17 U	53 U	73 U	16 U
4-Nitroaniline	ug/kg	65 U	68 U	66 U	71 U	230 U	310 U	69 U
4-Nitrophenol	ug/kg	100 U	110 U	100 U	110 U	360 U	490 U	110 U
Acenaphthene	ug/kg	0.83 U	35	89	0.90 U	130	84	0.88 U
Acenaphthylene	ug/kg	9.0	26	47	0.41 U	92	38	4.5 J
Acetophenone	ug/kg	41 J	12 U	12 U	13 U	42 U	57 U	13 U
Anthracene	ug/kg	8.3	89	190	0.92 U	340	160	4.5 J
Atrazine	ug/kg	39 U	41 U	40 U	43 U	140 U	190 U	42 U
Benzaldehyde	ug/kg	41 J	26 U	32 J	27 U	87 U	120 U	27 U
Benzo(a)anthracene	ug/kg	26	390	760	8.0	750	190	24
Benzo(a)pyrene	ug/kg	40	370	790	10	840	200	27
Benzo(b)fluoranthene	ug/kg	65	550	1200	13	950	230	41
Benzo(g,h,i)perylene	ug/kg	36	180	330	6.3 J	480	160	18
Benzo(k)fluoranthene	ug/kg	24	190	390	0.80 U	470	82	0.79 U
Biphenyl (1,1-Biphenyl)	ug/kg	25 J	19 U	22 J	20 U	64 U	89 U	20 U
bis(2-Chloroethoxy)methane	ug/kg	13 U	14 U	13 U	14 U	45 U	63 U	14 U
bis(2-Chloroethyl)ether	ug/kg	13 U	14 U	13 U	14 U	45 U	63 U	14 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	180	67 J	56 U	60 U	190 U	270 U	59 U

Table 5

Summary of Analytical Results
Soil/Fill Samples - EU5, 6, 7, 8
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH122-18**	**BH125-18**	**BH126-18**	**BH127-18**	**BH128-18**	**BH129-18**	**BH130-18**
Sample ID:		**S-38443-053118-JC-115**	**S-38443-053018-JC-106**	**S-38443-053018-JC-101**	**S-38443-053018-JC-110**	**S-38443-053018-JC-108**	**S-38443-053018-JC-103**	**S-38443-053018-JC-112**
Sample Date:		**5/31/2018**	**5/30/2018**	**5/30/2018**	**5/30/2018**	**5/30/2018**	**5/30/2018**	**5/30/2018**
Sample Depth:		**6-8 ft BGS**	**7-9 ft BGS**	**10-12 ft BGS**	**7-9 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**	**9.5-11.5 ft BGS**
Parameters	**Units**							
Butyl benzylphthalate (BBP)	ug/kg	24 U	25 U	24 U	26 U	83 U	110 U	25 U
Caprolactam	ug/kg	82 U	85 U	82 U	89 U	280 U	390 U	87 U
Carbazole	ug/kg	21 U	50 J	98	22 U	230	99 U	22 U
Chrysene	ug/kg	35	420	830	8.3	780	240	33
Dibenz(a,h)anthracene	ug/kg	0.72 U	68	87	0.78 U	120	3.4 U	0.76 U
Dibenzofuran	ug/kg	14 U	36 J	63	15 U	150 J	68 U	15 U
Diethyl phthalate	ug/kg	34 U	35 U	34 U	37 U	120 U	160 U	36 U
Dimethyl phthalate	ug/kg	15 U	16 U	15 U	17 U	53 U	73 U	16 U
Di-n-butylphthalate (DBP)	ug/kg	30 J	25 U	24 U	26 U	83 U	110 U	25 U
Di-n-octyl phthalate (DnOP)	ug/kg	30 U	32 U	31 U	33 U	110 U	150 U	32 U
Fluoranthene	ug/kg	59	720	1700	12	2300	560	50
Fluorene	ug/kg	0.58 U	35	74	0.63 U	210	100	0.61 U
Hexachlorobenzene	ug/kg	2.3 U	36	2.3 U	2.5 U	7.9 U	11 U	2.4 U
Hexachlorobutadiene	ug/kg	13 U	14 U	13 U	14 U	45 U	63 U	14 U
Hexachlorocyclopentadiene	ug/kg	67 U	70 U	68 U	73 U	230 U	320 U	72 U
Hexachloroethane	ug/kg	9.8 U	10 U	9.9 U	11 U	34 U	47 U	10 U
Indeno(1,2,3-cd)pyrene	ug/kg	28	190	290	5.4 J	450	92	17
Isophorone	ug/kg	13 U	14 U	13 U	14 U	110 J	63 U	14 U
Naphthalene	ug/kg	120	66	300	0.97 U	200	140	0.95 U
Nitrobenzene	ug/kg	14 U	15 U	14 U	15 U	49 U	68 U	15 U
N-Nitrosodi-n-propylamine	ug/kg	12 U	12 U	12 U	13 U	42 U	57 U	13 U
N-Nitrosodiphenylamine	ug/kg	13 U	14 U	13 U	14 U	45 U	63 U	14 U
Pentachlorophenol	ug/kg	63 U	66 U	860	68 U	220 U	300 U	67 U
Phenanthrene	ug/kg	49	430	910	6.3 J	1500	1300	23
Phenol	ug/kg	8.7 U	9.1 U	8.8 U	9.4 U	30 U	42 U	9.2 U
Pyrene	ug/kg	58	540	1300	10	1600	930	44
Metals								
Aluminum	mg/kg	3800	9300	5800	12000	4000	3400	8000
Antimony	mg/kg	0.49	5.4 J	0.75 J	0.20 J	0.28 J	0.16 J	0.32 J
Arsenic	mg/kg	5.4	19	9.2	11	4.2	5.0	9.6
Barium	mg/kg	110	1000	150	97	48	45	100
Beryllium	mg/kg	0.19	0.79	0.58	0.66	0.46	0.23	0.45
Cadmium	mg/kg	0.45	0.72	0.70	0.33	0.093 J	0.23	0.32
Calcium	mg/kg	67000	47000	77000	10000	320000	120000	84000
Chromium	mg/kg	77	38	11	18	5.8	7.0	15
Chromium III (trivalent)	mg/kg	77	38	9.9	18	5.3	6.0	15
Chromium VI (hexavalent)	mg/kg	0.27 U	0.28 U	0.91	0.57 U	0.43 J	0.96	0.28 U
Cobalt	mg/kg	5.2	7.9	4.3	8.9	2.4	3.0	7.3
Copper	mg/kg	240	120	41	23	9.9	15	17
Iron	mg/kg	13000	21000	9800	23000	4300	7600	16000
Lead	mg/kg	130	140	270	17	21	35	21
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-

Table 5

Summary of Analytical Results
Soil/Fill Samples - EU5, 6, 7, 8
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH122-18**	**BH125-18**	**BH126-18**	**BH127-18**	**BH128-18**	**BH129-18**	**BH130-18**
Sample ID:		**S-38443-053118-JC-115**	**S-38443-053018-JC-106**	**S-38443-053018-JC-101**	**S-38443-053018-JC-110**	**S-38443-053018-JC-108**	**S-38443-053018-JC-103**	**S-38443-053018-JC-112**
Sample Date:		**5/31/2018**	**5/30/2018**	**5/30/2018**	**5/30/2018**	**5/30/2018**	**5/30/2018**	**5/30/2018**
Sample Depth:		**6-8 ft BGS**	**7-9 ft BGS**	**10-12 ft BGS**	**7-9 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**	**9.5-11.5 ft BGS**
Parameters	**Units**							
Magnesium	mg/kg	44000	21000	27000	6500	13000	51000	25000
Manganese	mg/kg	330	690	250	610	110	220	1000
Mercury	mg/kg	0.024 J	0.086 J	0.44	0.049 J	0.075 J	0.045 J	0.079 J
Nickel	mg/kg	470	27	11	20	13	9.3	13
Potassium	mg/kg	450	1100	640	990	970	530	1000
Selenium	mg/kg	0.28 J	0.82 J	0.60 J	0.53 J	0.36 J	0.24 J	0.54 J
Silver	mg/kg	0.28	0.14 J	0.16 J	0.090 J	0.031 J	0.040 J	0.075 J
Sodium	mg/kg	150 J	150 J	290	78 J	240 J	350	140 J
Thallium	mg/kg	0.12 J	0.25	0.18 J	0.20	0.11 J	0.10 J	0.17 J
Vanadium	mg/kg	10	27	16	30	26	25	22
Zinc	mg/kg	210	240	240	67	33	46	70
PCBs								
Aroclor-1016 (PCB-1016)	ug/kg	25 U	26 U	24 U	26 U	34 U	23 U	26 U
Aroclor-1221 (PCB-1221)	ug/kg	27 U	28 U	26 U	28 U	37 U	25 U	28 U
Aroclor-1232 (PCB-1232)	ug/kg	26 U	27 U	25 U	27 U	36 U	24 U	27 U
Aroclor-1242 (PCB-1242)	ug/kg	21 U	22 U	20 U	22 U	30 U	20 U	22 U
Aroclor-1248 (PCB-1248)	ug/kg	74	28 U	26 U	28 U	37 U	25 U	28 U
Aroclor-1254 (PCB-1254)	ug/kg	26 U	27 U	25 U	27 U	36 U	54	27 U
Aroclor-1260 (PCB-1260)	ug/kg	25 U	26 U	24 U	26 U	34 U	23 U	26 U
Pesticides								
4,4'-DDD	ug/kg	1.7 U	1.6 U	34 U	1.8 U	2.2 U	32 U	1.6 U
4,4'-DDE	ug/kg	2.5 J	1.7 U	34 U	1.8 U	2.3 U	33 U	1.7 U
4,4'-DDT	ug/kg	1.3 U	3.1 J	26 U	1.3 U	1.7 U	24 U	1.3 J
Aldrin	ug/kg	0.88 U	0.86 U	17 U	0.92 U	1.2 U	17 U	0.86 U
alpha-BHC	ug/kg	1.0 U	1.0 U	21 U	1.1 U	1.4 U	20 U	1.0 U
alpha-Chlordane	ug/kg	2.3 J	1.7 U	34 U	1.8 U	2.3 U	32 U	1.7 U
beta-BHC	ug/kg	2.0 U	1.9 NJ	39 U	4.5 J	2.6 U	37 U	1.9 U
delta-BHC	ug/kg	1.9 U	1.9 U	38 U	2.0 U	2.5 U	37 U	1.9 U
Dieldrin	ug/kg	1.3 U	1.2 U	25 U	1.3 U	1.7 U	24 U	1.2 U
Endosulfan I	ug/kg	1.4 U	1.3 U	27 U	1.4 U	1.8 U	26 U	1.3 U
Endosulfan II	ug/kg	1.7 U	1.6 U	34 U	1.8 U	2.2 U	32 U	1.6 U
Endosulfan sulfate	ug/kg	1.5 U	1.4 U	29 U	1.5 U	1.9 U	28 U	1.4 U
Endrin	ug/kg	2.2 U	2.1 U	43 U	2.3 U	2.9 U	41 U	2.1 U
Endrin aldehyde	ug/kg	1.5 U	1.5 U	30 U	1.6 U	2.0 U	28 U	1.5 U
Endrin ketone	ug/kg	1.0 U	0.99 U	20 U	1.1 U	1.3 U	19 U	0.99 U
gamma-BHC (lindane)	ug/kg	2.0 U	2.0 U	41 U	2.1 U	2.7 U	39 U	2.0 U
gamma-Chlordane	ug/kg	1.4 U	1.4 U	28 U	1.5 U	1.8 U	27 U	1.4 U
Heptachlor	ug/kg	1.8 U	1.8 U	36 U	1.9 U	2.4 U	34 U	1.8 U
Heptachlor epoxide	ug/kg	2.1 J	1.6 U	33 U	1.7 U	2.2 U	31 U	1.6 U
Methoxychlor	ug/kg	7.5 U	7.3 UJ	150 UJ	7.8 UJ	9.8 UJ	140 UJ	7.3 UJ
Toxaphene	ug/kg	28 U	28 U	570 U	30 U	38 U	540 U	28 U

Table 5

Summary of Analytical Results
Soil/Fill Samples - EU5, 6, 7, 8
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH122-18**	**BH125-18**	**BH126-18**	**BH127-18**	**BH128-18**	**BH129-18**	**BH130-18**
Sample ID:		**S-38443-053118-JC-115**	**S-38443-053018-JC-106**	**S-38443-053018-JC-101**	**S-38443-053018-JC-110**	**S-38443-053018-JC-108**	**S-38443-053018-JC-103**	**S-38443-053018-JC-112**
Sample Date:		**5/31/2018**	**5/30/2018**	**5/30/2018**	**5/30/2018**	**5/30/2018**	**5/30/2018**	**5/30/2018**
Sample Depth:		**6-8 ft BGS**	**7-9 ft BGS**	**10-12 ft BGS**	**7-9 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**	**9.5-11.5 ft BGS**
Parameters	**Units**							
Asbestos								
Asbestos	%	ND	ND	ND	ND	ND	ND	ND
General Chemistry								
Cyanide (total)	mg/kg	0.25 J	0.19 U	0.20 U	0.23 U	0.83	0.19 U	0.23 U

Notes
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 5

Summary of Analytical Results
Soil/Fill Samples - EU5, 6, 7, 8
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH132-18**	**BH133-18**	**SS-98**	**SS-99**	**SS-100**	**SS-100**	**SS-101**
Sample ID:		**S-38443-053118-JC-119**	**S-38443-053118-JC-117**	**S-38443-053118-JC-114**	**SS-38443-110218-JC-099**	**SS-38443-110218-JC-100**	**SS-38443-110218-JC-121**	**SS-38443-110218-JC-101**
Sample Date:		**5/31/2018**	**5/31/2018**	**5/31/2018**	**11/2/2018**	**11/2/2018**	**11/2/2018**	**11/2/2018**
Sample Depth:		**6.5-8.5 ft BGS**	**7-9 ft BGS**	**0.17-2.17 ft BGS**	**0.25-2.25 ft BGS**	**0.17-2.17 ft BGS**	**0.17-2.17 ft BGS**	**0.25-2.25 ft BGS**
							Duplicate	
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/kg	2.5 UJ	0.70 U	0.74 U	0.81 U	1.1 U	0.92 U	0.80 U
1,1,2,2-Tetrachloroethane	ug/kg	4.4 UJ	1.2 U	1.3 U	1.4 UJ	1.9 UJ	1.6 UJ	1.4 UJ
1,1,2-Trichloroethane	ug/kg	3.5 UJ	0.97 U	1.0 U	1.1 U	1.5 U	1.3 U	1.1 U
1,1-Dichloroethane	ug/kg	2.1 UJ	0.59 U	0.63 U	0.69 U	0.92 U	0.78 U	0.68 U
1,1-Dichloroethene	ug/kg	2.8 UJ	0.77 U	0.82 U	0.90 U	1.2 U	1.0 U	0.88 U
1,2,4-Trichlorobenzene	ug/kg	1.8 UJ	0.49 U	0.52 U	0.57 U	0.76 U	0.64 U	0.56 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	11 UJ	3.1 U	3.3 U	3.6 U	4.8 U	4.1 U	3.5 U
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	2.4 UJ	0.66 U	0.70 U	0.76 U	1.0 U	0.87 U	0.75 U
1,2-Dichlorobenzene	ug/kg	3.4 UJ	0.95 U	1.0 U	1.1 U	1.5 U	1.3 U	1.1 U
1,2-Dichloroethane	ug/kg	2.4 UJ	0.66 U	0.70 U	0.77 U	1.0 U	0.87 U	0.75 U
1,2-Dichloropropane	ug/kg	2.6 UJ	0.73 U	0.77 U	0.84 U	1.1 U	0.96 U	0.83 U
1,3-Dichlorobenzene	ug/kg	2.5 UJ	0.70 U	0.74 U	0.81 U	1.1 U	0.92 U	0.80 U
1,4-Dichlorobenzene	ug/kg	2.7 UJ	0.75 U	0.80 U	0.87 U	1.2 U	0.99 U	0.86 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	38 J	3.0 U	5.1 J	3.5 U	4.7 U	4.0 U	3.5 U
2-Hexanone	ug/kg	13 UJ	3.5 U	3.7 U	4.1 U	5.4 U	4.6 U	4.0 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	11 UJ	3.2 U	3.4 U	3.7 U	4.9 U	4.2 U	3.6 U
Acetone	ug/kg	250 J	18 U	28	21 U	28 U	24 U	20 U
Benzene	ug/kg	2.2 UJ	0.60 U	0.63 U	0.69 U	0.92 U	0.79 U	0.68 U
Bromodichloromethane	ug/kg	2.1 UJ	0.58 U	0.62 U	0.67 U	0.90 U	0.76 U	0.66 U
Bromoform	ug/kg	7.4 UJ	2.0 U	2.2 U	2.4 U	3.2 UJ	2.7 UJ	2.3 U
Bromomethane (Methyl bromide)	ug/kg	3.1 UJ	0.84 U	0.90 U	0.98 U	1.3 U	1.1 U	0.96 U
Carbon disulfide	ug/kg	3.6 UJ	0.99 U	1.1 U	1.2 U	1.5 U	1.3 U	1.1 U
Carbon tetrachloride	ug/kg	10 UJ	2.8 U	3.0 U	3.2 U	4.3 UJ	3.7 UJ	3.2 U
Chlorobenzene	ug/kg	2.8 UJ	0.78 U	0.83 U	0.91 U	1.2 U	1.0 U	0.89 U
Chloroethane	ug/kg	3.8 UJ	1.0 U	1.1 U	1.2 U	1.6 U	1.4 U	1.2 U
Chloroform (Trichloromethane)	ug/kg	2.4 UJ	0.67 U	0.72 U	0.78 U	1.0 U	0.89 U	0.77 U
Chloromethane (Methyl chloride)	ug/kg	3.2 UJ	0.89 U	0.95 U	1.0 U	1.4 U	1.2 U	1.0 U
cis-1,2-Dichloroethene	ug/kg	2.0 UJ	0.56 U	0.59 U	0.65 U	0.96 U	0.93 U	0.63 U
cis-1,3-Dichloropropene	ug/kg	4.4 UJ	1.2 U	1.3 U	1.4 U	1.9 U	1.6 U	1.4 U
Cyclohexane	ug/kg	4.8 J	1.2 U	1.2 U	1.4 U	1.8 U	1.5 U	1.3 U
Dibromochloromethane	ug/kg	8.6 UJ	2.4 U	2.5 U	2.8 U	3.7 U	3.1 U	2.7 U
Dichlorodifluoromethane (CFC-12)	ug/kg	2.9 UJ	0.80 U	0.86 U	0.94 UJ	1.2 U	1.1 U	0.92 UJ
Ethylbenzene	ug/kg	3.6 J	0.89 U	0.95 U	1.0 U	1.4 U	1.2 U	1.0 U
Isopropyl benzene	ug/kg	2.6 UJ	0.71 U	0.76 U	0.83 U	1.1 U	0.94 U	0.81 U
Methyl acetate	ug/kg	11 UJ	2.9 U	3.1 U	3.4 U	4.5 U	3.8 U	3.3 U
Methyl cyclohexane	ug/kg	6.7 J	1.0 U	1.1 U	1.2 U	1.6 U	1.4 U	1.2 U
Methyl tert butyl ether (MTBE)	ug/kg	2.5 UJ	0.70 U	0.74 U	0.81 U	1.1 U	0.92 U	0.80 U
Methylene chloride	ug/kg	37 UJ	10 U	11 U	12 U	16 U	14 U	12 U
Styrene	ug/kg	3.6 UJ	0.99 U	1.1 U	1.1 U	1.5 U	1.3 U	1.1 U
Tetrachloroethene	ug/kg	4.0 J	0.62 U	0.66 U	0.72 U	0.96 U	0.82 U	0.71 U
Toluene	ug/kg	8.9 J	0.66 U	0.70 U	0.77 U	1.0 U	0.87 U	0.75 U
trans-1,2-Dichloroethene	ug/kg	1.4 UJ	0.40 U	0.42 U	0.46 U	0.61 U	0.52 U	0.45 U
trans-1,3-Dichloropropene	ug/kg	3.2 UJ	0.88 U	0.94 U	1.0 U	1.4 U	1.2 U	1.0 U
Trichloroethene	ug/kg	2.0 UJ	0.54 U	0.58 U	0.63 U	0.84 U	0.71 U	0.62 U

Table 5

Summary of Analytical Results
Soil/Fill Samples - EU5, 6, 7, 8
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH132-18**	**BH133-18**	**SS-98**	**SS-99**	**SS-100**	**SS-100**	**SS-101**
Sample ID:		**S-38443-053118-JC-119**	**S-38443-053118-JC-117**	**S-38443-053118-JC-114**	**SS-38443-110218-JC-099**	**SS-38443-110218-JC-100**	**SS-38443-110218-JC-121**	**SS-38443-110218-JC-101**
Sample Date:		**5/31/2018**	**5/31/2018**	**5/31/2018**	**11/2/2018**	**11/2/2018**	**11/2/2018**	**11/2/2018**
Sample Depth:		**6.5-8.5 ft BGS**	**7-9 ft BGS**	**0.17-2.17 ft BGS**	**0.25-2.25 ft BGS**	**0.17-2.17 ft BGS**	**0.17-2.17 ft BGS**	**0.25-2.25 ft BGS**
							Duplicate	
Parameters	**Units**							
Trichlorofluoromethane (CFC-11)	ug/kg	3.3 UJ	0.92 U	0.98 U	1.1 U	1.4 U	1.2 U	1.1 U
Trifluorotrichloroethane (CFC-113)	ug/kg	4.0 UJ	1.1 U	1.2 U	1.3 U	1.7 U	1.4 U	1.2 U
Vinyl chloride	ug/kg	2.6 UJ	0.71 U	0.76 U	0.83 U	1.1 UJ	0.94 UJ	0.82 U
Xylenes (total)	ug/kg	16 J	1.4 U	1.4 U	1.6 U	2.1 U	1.8 U	1.5 U
Semi-Volatiles								
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	22 UJ	11 U	11 U	12 U	12 U	12 U	46 U
2,4,5-Trichlorophenol	ug/kg	150 UJ	79 U	77 U	80 U	83 U	79 U	320 U
2,4,6-Trichlorophenol	ug/kg	140 UJ	73 U	72 U	74 U	77 U	74 U	290 U
2,4-Dichlorophenol	ug/kg	99 UJ	50 U	49 U	51 U	53 U	51 U	200 U
2,4-Dimethylphenol	ug/kg	90 UJ	46 U	45 U	46 U	48 U	46 U	180 U
2,4-Dinitrophenol	ug/kg	R	160 U	160 U	160 U	170 U	160 U	650 U
2,4-Dinitrotoluene	ug/kg	140 UJ	71 U	70 U	72 U	74 U	71 U	280 U
2,6-Dinitrotoluene	ug/kg	130 UJ	64 U	63 U	65 U	67 U	64 U	260 U
2-Chloronaphthalene	ug/kg	31 UJ	16 U	16 U	16 U	17 U	16 U	64 U
2-Chlorophenol	ug/kg	22 UJ	11 U	11 U	12 U	12 U	12 U	46 U
2-Methylnaphthalene	ug/kg	750 J	0.57 U	36	19	95	180	39 J
2-Methylphenol	ug/kg	70 UJ	35 U	35 U	36 U	37 U	36 U	140 U
2-Nitroaniline	ug/kg	90 UJ	46 U	45 U	46 U	48 U	46 U	180 U
2-Nitrophenol	ug/kg	29 UJ	15 U	15 U	15 U	16 U	15 U	59 U
3&4-Methylphenol	ug/kg	65 UJ	33 U	33 U	34 U	35 U	33 U	130 U
3,3'-Dichlorobenzidine	ug/kg	97 UJ	49 U	48 U	50 U	52 U	50 U	200 U
3-Nitroaniline	ug/kg	110 UJ	56 U	55 U	57 U	59 U	56 U	220 U
4,6-Dinitro-2-methylphenol	ug/kg	180 UJ	91 U	90 U	93 U	96 U	92 U	370 U
4-Bromophenyl phenyl ether	ug/kg	31 UJ	16 U	16 U	16 U	17 U	16 U	64 U
4-Chloro-3-methylphenol	ug/kg	100 UJ	51 U	50 U	52 U	54 U	52 U	210 U
4-Chloroaniline	ug/kg	67 UJ	34 U	34 U	35 U	36 U	35 U	140 U
4-Chlorophenyl phenyl ether	ug/kg	31 UJ	16 U	16 U	16 U	17 U	16 U	64 U
4-Nitroaniline	ug/kg	130 UJ	68 U	67 U	70 U	72 U	69 U	270 U
4-Nitrophenol	ug/kg	R	110 U	110 U	110 U	110 U	110 U	430 U
Acenaphthene	ug/kg	1.7 UJ	0.87 U	6.8 J	3.3 U	20	27	170
Acenaphthylene	ug/kg	0.79 UJ	0.40 U	21	8.0 J	39	36	18 U
Acetophenone	ug/kg	25 UJ	13 U	12 J	13 U	13 U	48 J	50 U
Anthracene	ug/kg	1.8 UJ	0.89 U	15	19	80	87	580
Atrazine	ug/kg	81 UJ	41 U	40 U	42 U	43 U	41 U	160 U
Benzaldehyde	ug/kg	52 UJ	26 U	26 U	27 U	28 U	26 U	110 U
Benzo(a)anthracene	ug/kg	41 J	0.72 U	47	160	330	340	1900
Benzo(a)pyrene	ug/kg	27 J	5.1 J	70	180	280	310	1400
Benzo(b)fluoranthene	ug/kg	43 J	8.5	94	280	440	470	1900
Benzo(g,h,i)perylene	ug/kg	0.79 UJ	0.40 U	150	170	240	260	640
Benzo(k)fluoranthene	ug/kg	1.5 UJ	0.78 U	38	90	150	200	840
Biphenyl (1,1-Biphenyl)	ug/kg	130 J	19 U	19 U	20 U	20 U	20 U	78 U
bis(2-Chloroethoxy)methane	ug/kg	27 UJ	14 U	13 U	14 U	14 U	14 U	55 U
bis(2-Chloroethyl)ether	ug/kg	27 UJ	14 U	13 U	14 U	14 U	14 U	55 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	110 UJ	58 U	57 U	60 J	74 J	140	230 U

Table 5

Summary of Analytical Results
Soil/Fill Samples - EU5, 6, 7, 8
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH132-18**	**BH133-18**	**SS-98**	**SS-99**	**SS-100**	**SS-100**	**SS-101**
Sample ID:		**S-38443-053118-JC-119**	**S-38443-053118-JC-117**	**S-38443-053118-JC-114**	**SS-38443-110218-JC-099**	**SS-38443-110218-JC-100**	**SS-38443-110218-JC-121**	**SS-38443-110218-JC-101**
Sample Date:		**5/31/2018**	**5/31/2018**	**5/31/2018**	**11/2/2018**	**11/2/2018**	**11/2/2018**	**11/2/2018**
Sample Depth:		**6.5-8.5 ft BGS**	**7-9 ft BGS**	**0.17-2.17 ft BGS**	**0.25-2.25 ft BGS**	**0.17-2.17 ft BGS**	**0.17-2.17 ft BGS**	**0.25-2.25 ft BGS**
							Duplicate	
Parameters	**Units**							
Butyl benzylphthalate (BBP)	ug/kg	49 UJ	25 U	25 U	26 U	26 U	25 U	100 U
Caprolactam	ug/kg	170 UJ	86 U	84 U	87 U	90 U	86 U	340 U
Carbazole	ug/kg	43 UJ	22 U	21 U	22 U	38 J	47 J	320
Chrysene	ug/kg	40 J	1.3 U	61	190	350	370	1900
Dibenz(a,h)anthracene	ug/kg	1.5 UJ	0.75 U	0.74 U	40	56	69	200
Dibenzofuran	ug/kg	29 UJ	15 U	15 U	15 U	32 J	47 J	100 J
Diethyl phthalate	ug/kg	70 UJ	35 U	35 U	36 U	37 U	36 U	140 U
Dimethyl phthalate	ug/kg	31 UJ	16 U	16 U	16 U	17 U	16 U	64 U
Di-n-butylphthalate (DBP)	ug/kg	49 UJ	25 U	25 U	40 J	26 U	25 U	100 U
Di-n-octyl phthalate (DnOP)	ug/kg	63 UJ	32 U	31 U	32 U	34 U	32 U	130 U
Fluoranthene	ug/kg	72 J	9.8	84	310	700	800	3800
Fluorene	ug/kg	1.2 UJ	0.60 U	7.9	5.1 J	27	32	220
Hexachlorobenzene	ug/kg	4.7 UJ	2.4 U	2.4 U	3.3 U	3.4 U	3.3 U	13 U
Hexachlorobutadiene	ug/kg	27 UJ	14 U	13 U	14 U	14 U	14 U	55 U
Hexachlorocyclopentadiene	ug/kg	140 UJ	71 U	70 U	72 U	74 U	71 U	280 U
Hexachloroethane	ug/kg	20 UJ	10 U	10 U	10 U	11 U	10 U	41 U
Indeno(1,2,3-cd)pyrene	ug/kg	21 J	0.40 U	38	140	190	200	650
Isophorone	ug/kg	27 UJ	14 U	13 U	14 U	14 U	14 U	55 U
Naphthalene	ug/kg	110 J	0.94 U	34	9.5 J	91	160	52 J
Nitrobenzene	ug/kg	29 UJ	15 U	15 U	15 U	16 U	15 U	59 U
N-Nitrosodi-n-propylamine	ug/kg	25 UJ	13 U	12 U	13 U	13 U	13 U	50 U
N-Nitrosodiphenylamine	ug/kg	27 UJ	14 U	13 U	14 U	14 U	14 U	55 U
Pentachlorophenol	ug/kg	130 UJ	66 U	65 U	67 U	70 U	67 U	260 U
Phenanthrene	ug/kg	210 J	6.4 J	54	93	360	460	2100
Phenol	ug/kg	18 UJ	9.1 U	9.0 U	9.3 U	9.6 U	9.2 U	37 U
Pyrene	ug/kg	77 J	11	94	250	570	610	2900
Metals								
Aluminum	mg/kg	11000 J	8000	5500	5200	5700	3800	5100
Antimony	mg/kg	0.25 UJ	0.35	1.2	0.24 J	0.55 J	0.23 J	0.21 J
Arsenic	mg/kg	6.5 J	7.8	5.2	9.8	8.7	6.7	5.9
Barium	mg/kg	75 J	81	77	72	89	41	52
Beryllium	mg/kg	0.57 J	0.47	0.25	0.71	0.61	0.37	0.50
Cadmium	mg/kg	0.13 J	0.50	0.52	0.32	0.74	0.25	0.25
Calcium	mg/kg	120000 J	44000	57000	99000	56000	90000	61000
Chromium	mg/kg	63 J	20	140	11	15	16	33
Chromium III (trivalent)	mg/kg	55 J	20	140	11	15	16	33
Chromium VI (hexavalent)	mg/kg	7.5 J	0.28 U	0.27 U	0.28 U	0.29 U	0.28 U	0.28 U
Cobalt	mg/kg	3.7 J	6.2	5.6	4.2	5.2	3.9	4.2
Copper	mg/kg	14 J	33	960	13	45	15	17
Iron	mg/kg	11000 J	21000	18000	16000	14000	11000	12000
Lead	mg/kg	15 J	36	120	19 J	91 J	17 J	27 J
Lead - coarse fraction	mg/kg	-	-	-	-	23 J	-	-
Lead - fine fraction	mg/kg	-	-	-	-	42	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	27	-	-

Table 5

Summary of Analytical Results
Soil/Fill Samples - EU5, 6, 7, 8
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH132-18**	**BH133-18**	**SS-98**	**SS-99**	**SS-100**	**SS-100**	**SS-101**
Sample ID:		**S-38443-053118-JC-119**	**S-38443-053118-JC-117**	**S-38443-053118-JC-114**	**SS-38443-110218-JC-099**	**SS-38443-110218-JC-100**	**SS-38443-110218-JC-121**	**SS-38443-110218-JC-101**
Sample Date:		**5/31/2018**	**5/31/2018**	**5/31/2018**	**11/2/2018**	**11/2/2018**	**11/2/2018**	**11/2/2018**
Sample Depth:		**6.5-8.5 ft BGS**	**7-9 ft BGS**	**0.17-2.17 ft BGS**	**0.25-2.25 ft BGS**	**0.17-2.17 ft BGS**	**0.17-2.17 ft BGS**	**0.25-2.25 ft BGS**
							Duplicate	
Parameters	**Units**							
Magnesium	mg/kg	26000 J	19000	47000	38000	24000	33000	24000
Manganese	mg/kg	290 J	570	420	400 J	540 J	430 J	950 J
Mercury	mg/kg	0.045 UJ	0.23	0.047 J	0.037 J	0.083 J	0.024 U	0.033 J
Nickel	mg/kg	13 J	24	700	11	21	15	14
Potassium	mg/kg	380 J	880	600	680	790	610	620
Selenium	mg/kg	0.24 UJ	0.32 J	0.29 J	0.84 J	0.66 J	0.51 J	0.43 J
Silver	mg/kg	0.078 J	0.052 J	0.52	0.045 J	0.097 J	0.046 J	0.046 J
Sodium	mg/kg	110 J	92 J	140 J	140 J	87 J	100 J	75 J
Thallium	mg/kg	0.095 UJ	0.15 J	0.080 J	0.34	0.19 J	0.14 J	0.14 J
Vanadium	mg/kg	24 J	23	14	17	19	21	45
Zinc	mg/kg	93 J	110	260	55	140	61	86
PCBs								
Aroclor-1016 (PCB-1016)	ug/kg	48 UJ	26 U	25 U	25 U	28 U	26 U	25 U
Aroclor-1221 (PCB-1221)	ug/kg	52 UJ	28 U	27 U	28 U	30 U	28 U	27 U
Aroclor-1232 (PCB-1232)	ug/kg	50 UJ	27 U	26 U	27 U	29 U	27 U	26 U
Aroclor-1242 (PCB-1242)	ug/kg	42 UJ	22 U	21 U	22 U	24 U	22 U	22 U
Aroclor-1248 (PCB-1248)	ug/kg	52 UJ	28 U	27 U	400	30 U	28 U	27 U
Aroclor-1254 (PCB-1254)	ug/kg	50 UJ	27 U	26 U	27 U	160	27 U	26 U
Aroclor-1260 (PCB-1260)	ug/kg	48 UJ	26 U	25 U	74	28 U	26 U	25 U
Pesticides								
4,4'-DDD	ug/kg	3.5 UJ	1.7 U	1.7 U	1.7 U	1.8 U	1.7 U	1.6 U
4,4'-DDE	ug/kg	3.5 UJ	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U
4,4'-DDT	ug/kg	2.7 UJ	1.3 U	1.3 U	1.3 U	2.0 J	1.3 U	1.2 J
Aldrin	ug/kg	1.8 UJ	0.90 U	0.87 U	0.88 U	0.93 U	0.87 U	0.85 U
alpha-BHC	ug/kg	2.1 UJ	1.1 U	1.0 U	1.0 U	1.1 U	1.0 U	1.0 U
alpha-Chlordane	ug/kg	3.5 UJ	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.7 U
beta-BHC	ug/kg	4.1 UJ	2.0 U	2.0 U	2.0 U	2.1 U	2.0 U	1.9 U
delta-BHC	ug/kg	4.0 UJ	2.0 U	1.9 U	1.9 U	2.0 U	1.9 U	1.9 U
Dieldrin	ug/kg	2.6 UJ	1.3 U	1.2 U	1.3 U	1.3 U	1.2 U	1.2 U
Endosulfan I	ug/kg	2.8 UJ	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.3 U
Endosulfan II	ug/kg	3.5 UJ	1.7 U	1.7 U	1.7 U	1.8 U	1.7 U	1.6 U
Endosulfan sulfate	ug/kg	3.0 UJ	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.4 U
Endrin	ug/kg	4.5 UJ	2.2 U	2.2 U	2.2 U	2.3 U	2.2 U	2.1 U
Endrin aldehyde	ug/kg	3.1 UJ	1.5 U	1.5 U	1.5 U	1.6 U	1.5 U	1.4 U
Endrin ketone	ug/kg	2.1 UJ	1.0 U	1.0 U	1.0 U	1.1 U	1.0 U	0.98 U
gamma-BHC (lindane)	ug/kg	4.2 UJ	2.1 U	2.0 U	2.0 U	2.2 U	2.0 U	2.0 U
gamma-Chlordane	ug/kg	2.9 UJ	1.4 U	1.4 U	1.4 U	1.5 U	1.4 U	1.4 U
Heptachlor	ug/kg	3.7 UJ	1.8 U	1.8 U	1.8 U	1.9 U	1.8 U	1.7 U
Heptachlor epoxide	ug/kg	3.4 UJ	1.7 U	1.6 U	1.6 U	1.7 U	1.6 U	1.6 U
Methoxychlor	ug/kg	15 UJ	7.7 U	7.4 U	7.5 U	7.9 U	7.4 U	7.2 U
Toxaphene	ug/kg	59 UJ	29 U	28 U	28 U	30 U	28 U	28 U

Table 5

Summary of Analytical Results
Soil/Fill Samples - EU5, 6, 7, 8
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH132-18**	**BH133-18**	**SS-98**	**SS-99**	**SS-100**	**SS-100**	**SS-101**
Sample ID:		**S-38443-053118-JC-119**	**S-38443-053118-JC-117**	**S-38443-053118-JC-114**	**SS-38443-110218-JC-099**	**SS-38443-110218-JC-100**	**SS-38443-110218-JC-121**	**SS-38443-110218-JC-101**
Sample Date:		**5/31/2018**	**5/31/2018**	**5/31/2018**	**11/2/2018**	**11/2/2018**	**11/2/2018**	**11/2/2018**
Sample Depth:		**6.5-8.5 ft BGS**	**7-9 ft BGS**	**0.17-2.17 ft BGS**	**0.25-2.25 ft BGS**	**0.17-2.17 ft BGS**	**0.17-2.17 ft BGS**	**0.25-2.25 ft BGS**
							Duplicate	
Parameters	**Units**							
Asbestos								
Asbestos	%	ND	ND	-	-	-	-	-
General Chemistry								
Cyanide (total)	mg/kg	0.48 J	0.22 J	0.26 J	0.22 U	0.35 J	0.24 J	0.23 U

Notes
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 5

Summary of Analytical Results
Soil/Fill Samples - EU5, 6, 7, 8
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-102**	**SS-102**	**SS-103**	**SS-104**	**SS-109**	**SS-112**	**SS-116**
Sample ID:		**S-38443-053018-JC-104**	**S-38443-053018-JC-105**	**S-38443-053018-JC-102**	**S-38443-053018-JC-100**	**S-38443-053018-JC-109**	**S-38443-053018-JC-107**	**S-38443-053018-JC-111**
Sample Date:		**5/30/2018**	**5/30/2018**	**5/30/2018**	**5/30/2018**	**5/30/2018**	**5/30/2018**	**5/30/2018**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
			Duplicate					
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/kg	1.3 UJ	0.77 U	0.97 U	1.0 U	1.1 UJ	1.0 U	1.5 U
1,1,2,2-Tetrachloroethane	ug/kg	R	1.4 U	R	R	R	1.8 U	R
1,1,2-Trichloroethane	ug/kg	1.9 UJ	1.1 U	1.3 U	1.4 U	1.5 UJ	1.4 U	2.1 U
1,1-Dichloroethane	ug/kg	1.1 UJ	0.65 U	0.82 U	0.87 U	0.90 UJ	0.85 U	1.3 U
1,1-Dichloroethene	ug/kg	1.5 UJ	0.85 U	1.1 U	1.1 U	1.2 UJ	1.1 U	1.6 U
1,2,4-Trichlorobenzene	ug/kg	R	0.54 U	R	R	R	0.70 U	R
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	R	3.4 U	R	R	R	4.4 U	R
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	1.3 UJ	0.73 U	0.91 U	0.97 U	1.0 UJ	0.95 U	1.4 U
1,2-Dichlorobenzene	ug/kg	R	1.0 U	R	R	R	1.4 U	R
1,2-Dichloroethane	ug/kg	1.3 UJ	0.73 U	0.92 U	0.97 U	1.0 UJ	0.95 U	1.4 U
1,2-Dichloropropane	ug/kg	1.4 UJ	0.80 U	1.0 U	1.1 U	1.1 UJ	1.0 U	1.5 U
1,3-Dichlorobenzene	ug/kg	R	0.77 U	R	R	R	1.0 U	R
1,4-Dichlorobenzene	ug/kg	R	0.83 U	R	R	R	1.1 U	R
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	5.9 UJ	3.4 U	4.2 U	4.5 U	5.3 J	4.4 U	6.4 U
2-Hexanone	ug/kg	6.7 UJ	3.9 U	4.8 U	5.1 U	5.3 UJ	5.0 U	7.4 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	6.1 UJ	3.5 U	4.4 U	4.7 U	4.8 UJ	4.6 U	6.7 U
Acetone	ug/kg	35 UJ	20 U	25 U	26 U	35 J	57	180 J
Benzene	ug/kg	1.1 UJ	0.66 U	0.83 U	0.88 U	0.91 UJ	0.86 U	1.3 U
Bromodichloromethane	ug/kg	1.1 UJ	0.64 U	0.81 U	0.85 U	0.89 UJ	0.83 U	1.2 U
Bromoform	ug/kg	4.0 UJ	2.3 U	2.8 U	3.0 U	3.1 UJ	3.0 U	4.3 U
Bromomethane (Methyl bromide)	ug/kg	1.6 UJ	0.93 U	1.2 U	1.2 U	1.3 UJ	1.2 U	1.8 U
Carbon disulfide	ug/kg	1.9 UJ	1.1 U	1.4 U	1.5 U	1.5 UJ	1.4 U	2.1 U
Carbon tetrachloride	ug/kg	5.4 UJ	3.1 U	3.9 U	4.1 U	4.2 UJ	4.0 U	5.9 U
Chlorobenzene	ug/kg	1.5 UJ	0.86 U	1.1 U	1.2 U	1.2 UJ	1.1 U	1.7 U
Chloroethane	ug/kg	2.0 UJ	1.2 U	1.4 U	1.5 U	1.6 UJ	1.5 U	2.2 U
Chloroform (Trichloromethane)	ug/kg	1.3 UJ	0.74 U	0.94 U	0.99 U	1.0 UJ	0.97 U	1.4 U
Chloromethane (Methyl chloride)	ug/kg	1.7 UJ	0.98 U	1.2 U	1.3 U	1.4 UJ	1.3 U	1.9 U
cis-1,2-Dichloroethene	ug/kg	1.1 UJ	0.61 U	0.77 U	0.82 U	0.85 UJ	0.80 U	1.2 U
cis-1,3-Dichloropropene	ug/kg	2.4 UJ	1.4 U	1.7 U	1.8 U	1.9 UJ	1.8 U	2.6 U
Cyclohexane	ug/kg	2.3 UJ	1.3 U	1.6 U	1.7 U	1.8 UJ	1.7 U	2.5 U
Dibromochloromethane	ug/kg	4.6 UJ	2.6 U	3.3 U	3.5 U	3.6 UJ	3.4 U	5.0 U
Dichlorodifluoromethane (CFC-12)	ug/kg	1.6 UJ	0.89 U	1.1 U	1.2 U	1.2 UJ	1.2 U	1.7 U
Ethylbenzene	ug/kg	1.7 UJ	0.99 U	1.2 U	1.3 U	1.4 UJ	1.3 U	1.9 U
Isopropyl benzene	ug/kg	1.4 UJ	0.79 U	0.99 U	1.0 U	1.1 UJ	1.0 U	1.5 U
Methyl acetate	ug/kg	5.6 UJ	3.2 U	4.0 U	4.3 U	4.4 UJ	4.2 U	6.2 U
Methyl cyclohexane	ug/kg	2.0 UJ	1.2 U	1.5 U	1.5 U	1.6 UJ	1.5 U	2.2 U
Methyl tert butyl ether (MTBE)	ug/kg	1.3 UJ	0.77 U	0.97 U	1.0 U	1.1 UJ	1.0 U	1.5 U
Methylene chloride	ug/kg	20 UJ	11 U	14 U	15 U	16 UJ	15 U	22 U
Styrene	ug/kg	1.9 UJ	1.1 U	1.4 U	1.5 U	1.5 UJ	1.4 U	2.1 U
Tetrachloroethene	ug/kg	1.2 UJ	0.69 U	1.6 J	0.92 U	0.95 UJ	0.90 U	3.5 J
Toluene	ug/kg	1.3 UJ	0.73 U	0.92 U	0.97 U	1.0 UJ	0.95 U	1.4 U
trans-1,2-Dichloroethene	ug/kg	0.77 UJ	0.44 U	0.55 U	0.58 U	0.61 UJ	0.57 U	0.84 U
trans-1,3-Dichloropropene	ug/kg	1.7 UJ	0.98 U	1.2 U	1.3 U	1.3 UJ	1.3 U	1.9 U
Trichloroethene	ug/kg	1.0 UJ	0.60 U	0.75 U	0.79 U	0.83 UJ	0.78 U	1.1 U

Table 5

Summary of Analytical Results
Soil/Fill Samples - EU5, 6, 7, 8
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-102**	**SS-102**	**SS-103**	**SS-104**	**SS-109**	**SS-112**	**SS-116**
Sample ID:		**S-38443-053018-JC-104**	**S-38443-053018-JC-105**	**S-38443-053018-JC-102**	**S-38443-053018-JC-100**	**S-38443-053018-JC-109**	**S-38443-053018-JC-107**	**S-38443-053018-JC-111**
Sample Date:		**5/30/2018**	**5/30/2018**	**5/30/2018**	**5/30/2018**	**5/30/2018**	**5/30/2018**	**5/30/2018**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
			Duplicate					
Parameters	**Units**							
Trichlorofluoromethane (CFC-11)	ug/kg	1.8 UJ	1.0 U	1.3 U	1.4 U	1.4 UJ	1.3 U	2.0 U
Trifluorotrichloroethane (CFC-113)	ug/kg	2.1 UJ	1.2 U	1.5 U	1.6 U	1.7 UJ	1.6 U	2.3 U
Vinyl chloride	ug/kg	1.4 UJ	0.79 U	0.99 U	1.1 U	1.1 UJ	1.0 U	1.5 U
Xylenes (total)	ug/kg	2.6 UJ	1.5 U	1.9 U	2.0 U	2.1 UJ	1.9 U	2.9 U
Semi-Volatiles								
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	26 U	11 U	12 U	14 U	15 U	13 U	11 U
2,4,5-Trichlorophenol	ug/kg	180 U	73 U	83 U	97 U	100 U	87 U	79 U
2,4,6-Trichlorophenol	ug/kg	170 U	68 U	77 U	90 U	96 U	80 U	73 U
2,4-Dichlorophenol	ug/kg	120 U	47 U	53 U	62 U	66 U	55 U	50 U
2,4-Dimethylphenol	ug/kg	110 U	43 U	48 U	56 U	60 U	50 U	46 U
2,4-Dinitrophenol	ug/kg	370 U	150 U	170 U	200 U	210 U	180 U	160 U
2,4-Dinitrotoluene	ug/kg	160 U	66 U	75 U	87 U	93 U	78 U	71 U
2,6-Dinitrotoluene	ug/kg	150 U	60 U	68 U	79 U	84 U	70 U	64 U
2-Chloronaphthalene	ug/kg	37 U	15 U	17 U	20 U	21 U	18 U	16 U
2-Chlorophenol	ug/kg	26 U	11 U	12 U	14 U	15 U	13 U	11 U
2-Methylnaphthalene	ug/kg	100	45	66	62	45	13	300
2-Methylphenol	ug/kg	82 U	33 U	37 U	43 U	47 U	39 U	36 U
2-Nitroaniline	ug/kg	110 U	43 U	48 U	56 U	60 U	50 U	46 U
2-Nitrophenol	ug/kg	34 U	14 U	16 U	18 U	20 U	16 U	15 U
3&4-Methylphenol	ug/kg	76 U	31 U	35 U	41 U	44 U	36 U	33 U
3,3'-Dichlorobenzidine	ug/kg	110 U	46 U	52 U	60 U	65 U	54 U	49 U
3-Nitroaniline	ug/kg	130 U	52 U	59 U	69 U	74 U	62 U	56 U
4,6-Dinitro-2-methylphenol	ug/kg	210 U	85 U	97 U	110 U	120 U	100 U	92 U
4-Bromophenyl phenyl ether	ug/kg	37 U	15 U	17 U	20 U	21 U	18 U	16 U
4-Chloro-3-methylphenol	ug/kg	120 U	48 U	54 U	63 U	68 U	57 U	52 U
4-Chloroaniline	ug/kg	79 U	32 U	36 U	42 U	45 U	38 U	34 U
4-Chlorophenyl phenyl ether	ug/kg	37 U	15 U	17 U	20 U	21 U	18 U	16 U
4-Nitroaniline	ug/kg	160 U	64 U	72 U	84 U	90 U	75 U	69 U
4-Nitrophenol	ug/kg	250 U	100 U	110 U	130 U	140 U	120 U	110 U
Acenaphthene	ug/kg	98	99	55	1.1 U	1.1 U	0.95 U	0.87 U
Acenaphthylene	ug/kg	60	69	93	26	5.4 J	0.44 U	9.1
Acetophenone	ug/kg	29 U	12 U	13 U	15 U	21 J	14 U	13 U
Anthracene	ug/kg	160	180	78	47	9.8 J	0.98 U	15
Atrazine	ug/kg	95 U	38 U	43 U	51 U	54 U	45 U	41 U
Benzaldehyde	ug/kg	61 U	24 U	28 U	32 U	35 U	29 U	26 U
Benzo(a)anthracene	ug/kg	680	670	190	160	37	9.3	34
Benzo(a)pyrene	ug/kg	1600	950	210	180	40	6.3 J	35
Benzo(b)fluoranthene	ug/kg	2100	1400	270	270	67	9.1	55
Benzo(g,h,i)perylene	ug/kg	560	300	87	100	26	0.44 U	25
Benzo(k)fluoranthene	ug/kg	670	430	100	84	1.0 U	0.85 U	0.78 U
Biphenyl (1,1-Biphenyl)	ug/kg	45 U	18 U	21 U	24 U	26 U	21 U	28 J
bis(2-Chloroethoxy)methane	ug/kg	32 U	13 U	14 U	17 U	18 U	15 U	14 U
bis(2-Chloroethyl)ether	ug/kg	32 U	13 U	14 U	17 U	18 U	15 U	14 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	130 U	54 U	62 U	72 U	77 U	64 U	58 U

Table 5

Summary of Analytical Results
Soil/Fill Samples - EU5, 6, 7, 8
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-102**	**SS-102**	**SS-103**	**SS-104**	**SS-109**	**SS-112**	**SS-116**
Sample ID:		**S-38443-053018-JC-104**	**S-38443-053018-JC-105**	**S-38443-053018-JC-102**	**S-38443-053018-JC-100**	**S-38443-053018-JC-109**	**S-38443-053018-JC-107**	**S-38443-053018-JC-111**
Sample Date:		**5/30/2018**	**5/30/2018**	**5/30/2018**	**5/30/2018**	**5/30/2018**	**5/30/2018**	**5/30/2018**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
			Duplicate					
Parameters	**Units**							
Butyl benzylphthalate (BBP)	ug/kg	58 U	23 U	27 U	31 U	33 U	28 U	25 U
Caprolactam	ug/kg	200 U	80 U	90 U	110 U	110 U	94 U	86 U
Carbazole	ug/kg	88 J	100	37 J	27 U	29 U	24 U	22 U
Chrysene	ug/kg	790	720	190	190	48	1.4 U	48
Dibenz(a,h)anthracene	ug/kg	160	75	22	0.93 U	0.99 U	0.83 U	0.76 U
Dibenzofuran	ug/kg	56 J	44 J	71	21 J	20 U	16 U	63
Diethyl phthalate	ug/kg	82 U	33 U	37 U	43 U	47 U	39 U	36 U
Dimethyl phthalate	ug/kg	37 U	15 U	17 U	20 U	21 U	18 U	16 U
Di-n-butylphthalate (DBP)	ug/kg	58 U	23 U	27 U	31 U	33 U	28 U	25 U
Di-n-octyl phthalate (DnOP)	ug/kg	74 U	30 U	34 U	39 U	42 U	35 U	32 U
Fluoranthene	ug/kg	1700	1800	490	470	100	22	60
Fluorene	ug/kg	69	72	63	22	0.80 U	0.67 U	0.61 U
Hexachlorobenzene	ug/kg	5.5 U	2.2 U	2.5 U	2.9 U	3.2 U	2.6 U	2.4 U
Hexachlorobutadiene	ug/kg	32 U	13 U	14 U	17 U	18 U	15 U	14 U
Hexachlorocyclopentadiene	ug/kg	160 U	66 U	75 U	87 U	93 U	78 U	71 U
Hexachloroethane	ug/kg	24 U	9.6 U	11 U	13 U	14 U	11 U	10 U
Indeno(1,2,3-cd)pyrene	ug/kg	570	300	76	87	25	0.44 U	0.40 U
Isophorone	ug/kg	32 U	13 U	14 U	17 U	18 U	15 U	14 U
Naphthalene	ug/kg	69	33	42	60	51	15	210
Nitrobenzene	ug/kg	34 U	14 U	16 U	18 U	20 U	16 U	15 U
N-Nitrosodi-n-propylamine	ug/kg	29 U	12 U	13 U	15 U	17 U	14 U	13 U
N-Nitrosodiphenylamine	ug/kg	32 U	13 U	14 U	17 U	18 U	15 U	14 U
Pentachlorophenol	ug/kg	150 U	62 U	70 U	81 U	87 U	73 U	67 U
Phenanthrene	ug/kg	540	610	360	240	62	19	140
Phenol	ug/kg	21 U	8.5 U	9.7 U	11 U	12 U	10 U	9.2 U
Pyrene	ug/kg	1500	1400	360	340	80	19	50
Metals								
Aluminum	mg/kg	4800	4800	9400	9300	9800	4600	1900
Antimony	mg/kg	0.23 J	0.25 J	0.56 J	0.66 J	0.60 J	0.45 J	0.14 UJ
Arsenic	mg/kg	7.2	6.9	20	33	59	28	5.5
Barium	mg/kg	58	62	230	230	350	96	72
Beryllium	mg/kg	0.41	0.38	1.9	4.1	3.2	1.5	0.89
Cadmium	mg/kg	0.44	0.31	0.30	0.44	0.32	0.16 J	0.047 U
Calcium	mg/kg	72000	90000	100000	32000	11000	70000	1900
Chromium	mg/kg	9.3	14	12	18	16	11	5.1
Chromium III (trivalent)	mg/kg	8.8	14	12	16	16	11	4.8
Chromium VI (hexavalent)	mg/kg	0.44 J	0.26 U	0.29 U	1.5	0.36 U	0.90 J	0.29 J
Cobalt	mg/kg	4.1	4.6	7.7	12	9.3	7.8	4.8
Copper	mg/kg	19	20	37	40	38	24	17
Iron	mg/kg	10000	13000	11000	12000	15000	10000	4600
Lead	mg/kg	38	51	45	53	22	13	1.7
Lead - coarse fraction	mg/kg	-	-	41 J	-	-	-	-
Lead - fine fraction	mg/kg	-	-	31	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	37	-	-	-	-

Table 5

Summary of Analytical Results
Soil/Fill Samples - EU5, 6, 7, 8
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-102**	**SS-102**	**SS-103**	**SS-104**	**SS-109**	**SS-112**	**SS-116**
Sample ID:		**S-38443-053018-JC-104**	**S-38443-053018-JC-105**	**S-38443-053018-JC-102**	**S-38443-053018-JC-100**	**S-38443-053018-JC-109**	**S-38443-053018-JC-107**	**S-38443-053018-JC-111**
Sample Date:		**5/30/2018**	**5/30/2018**	**5/30/2018**	**5/30/2018**	**5/30/2018**	**5/30/2018**	**5/30/2018**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
			Duplicate					
Parameters	**Units**							
Magnesium	mg/kg	30000	32000	27000	12000	3600	25000	340
Manganese	mg/kg	230	460	280	170	91	210	31
Mercury	mg/kg	0.057 J	0.043 J	0.15	0.38	0.50	0.13	0.031 J
Nickel	mg/kg	11	11	18	28	21	17	8.2
Potassium	mg/kg	600	600	1100	1500	2200	730	200 J
Selenium	mg/kg	0.71 J	0.73 J	3.0	4.7	6.3	2.6	0.43 J
Silver	mg/kg	0.051 J	0.051 J	0.20 J	0.082 J	0.064 J	0.038 J	0.024 U
Sodium	mg/kg	120 J	130 J	230	240	290	140 J	100 J
Thallium	mg/kg	0.17	0.15 J	0.59	1.1	2.7	0.69	0.063 J
Vanadium	mg/kg	18	26	31	42	44	28	11
Zinc	mg/kg	58	67	79	50	36	34	4.9
PCBs								
Aroclor-1016 (PCB-1016)	ug/kg	24 U	23 U	26 U	30 U	34 U	28 U	26 U
Aroclor-1221 (PCB-1221)	ug/kg	26 U	25 U	29 U	33 U	37 U	31 U	28 U
Aroclor-1232 (PCB-1232)	ug/kg	25 U	24 U	27 U	32 U	35 U	30 U	27 U
Aroclor-1242 (PCB-1242)	ug/kg	21 U	20 U	23 U	26 U	29 U	24 U	22 U
Aroclor-1248 (PCB-1248)	ug/kg	26 U	25 U	29 U	33 U	37 U	31 U	28 U
Aroclor-1254 (PCB-1254)	ug/kg	25 U	78	87	32 U	35 U	30 U	27 U
Aroclor-1260 (PCB-1260)	ug/kg	24 U	23 U	26 U	30 U	34 U	28 U	26 U
Pesticides								
4,4'-DDD	ug/kg	16 U	16 U	35 U	2.1 U	23 U	1.9 U	3.7 J
4,4'-DDE	ug/kg	16 U	16 U	36 U	2.1 U	23 U	1.9 U	1.8 U
4,4'-DDT	ug/kg	12 U	12 U	27 U	1.6 U	17 U	1.4 U	1.3 U
Aldrin	ug/kg	8.3 U	8.2 U	18 U	1.1 U	12 U	0.98 U	0.90 U
alpha-BHC	ug/kg	9.8 U	9.7 U	22 U	1.3 U	14 U	1.2 U	1.1 U
alpha-Chlordane	ug/kg	16 U	16 U	36 U	2.1 U	23 U	1.9 U	1.8 U
beta-BHC	ug/kg	19 U	18 U	41 U	2.4 U	26 U	2.2 U	2.0 U
delta-BHC	ug/kg	18 U	18 U	40 U	2.3 U	26 U	2.2 U	2.0 U
Dieldrin	ug/kg	12 U	12 U	26 U	1.5 U	17 U	1.4 U	1.3 U
Endosulfan I	ug/kg	13 U	13 U	29 U	1.7 U	18 U	1.5 U	1.4 U
Endosulfan II	ug/kg	16 U	16 U	35 U	2.1 U	23 U	1.9 U	1.7 U
Endosulfan sulfate	ug/kg	14 U	14 U	31 U	1.8 U	20 U	1.6 U	1.5 U
Endrin	ug/kg	20 U	20 U	45 U	2.6 U	29 U	2.4 U	2.2 U
Endrin aldehyde	ug/kg	14 U	14 U	31 U	1.8 U	20 U	1.7 U	1.5 U
Endrin ketone	ug/kg	9.6 U	9.5 U	21 U	1.2 U	14 U	1.1 U	1.0 U
gamma-BHC (lindane)	ug/kg	19 U	19 U	43 U	2.5 U	27 U	2.3 U	2.1 U
gamma-Chlordane	ug/kg	13 U	13 U	29 U	1.7 U	19 U	1.6 U	1.4 U
Heptachlor	ug/kg	17 U	17 U	38 U	2.2 U	24 U	2.0 U	1.9 U
Heptachlor epoxide	ug/kg	16 U	15 U	34 U	2.0 U	22 U	1.8 U	1.7 U
Methoxychlor	ug/kg	71 UJ	70 UJ	160 UJ	9.1 UJ	100 UJ	8.4 UJ	7.7 UJ
Toxaphene	ug/kg	270 U	270 U	600 U	35 U	380 U	32 U	29 U

Table 5

Summary of Analytical Results
Soil/Fill Samples - EU5, 6, 7, 8
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-102**	**SS-102**	**SS-103**	**SS-104**	**SS-109**	**SS-112**	**SS-116**
Sample ID:		**S-38443-053018-JC-104**	**S-38443-053018-JC-105**	**S-38443-053018-JC-102**	**S-38443-053018-JC-100**	**S-38443-053018-JC-109**	**S-38443-053018-JC-107**	**S-38443-053018-JC-111**
Sample Date:		**5/30/2018**	**5/30/2018**	**5/30/2018**	**5/30/2018**	**5/30/2018**	**5/30/2018**	**5/30/2018**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
			Duplicate					
Parameters	**Units**							
Asbestos								
Asbestos	%	-	-	-	-	-	-	-
General Chemistry								
Cyanide (total)	mg/kg	0.18 U	0.18 U	0.26 J	0.28 J	0.31 U	0.24 U	0.48 J

Notes
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 5

Summary of Analytical Results
Soil/Fill Samples - EU5, 6, 7, 8
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-120**	**SS-123**	**SS-158-AS**	**SS-159-AS**	**SS-160-AS**
Sample ID:		**S-38443-053118-JC-118**	**S-38443-053118-JC-116**	**SS-38443-110218-JC-158**	**SS-38443-110218-JC-159**	**SS-38443-110218-JC-160**
Sample Date:		**5/31/2018**	**5/31/2018**	**11/2/2018**	**11/2/2018**	**11/2/2018**
Sample Depth:		**0-2 ft BGS**	**0.3-2.3 ft BGS**	**0.25-0.75 ft BGS**	**0.25-0.75 ft BGS**	**0.17-0.67 ft BGS**
Parameters	**Units**					
Volatiles						
1,1,1-Trichloroethane	ug/kg	1.6 UJ	0.85 U	-	-	-
1,1,2,2-Tetrachloroethane	ug/kg	R	1.5 U	-	-	-
1,1,2-Trichloroethane	ug/kg	2.2 UJ	1.2 U	-	-	-
1,1-Dichloroethane	ug/kg	1.3 UJ	0.72 U	-	-	-
1,1-Dichloroethene	ug/kg	1.7 UJ	0.94 U	-	-	-
1,2,4-Trichlorobenzene	ug/kg	R	0.59 U	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	R	3.7 U	-	-	-
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	1.5 UJ	0.80 U	-	-	-
1,2-Dichlorobenzene	ug/kg	R	1.2 U	-	-	-
1,2-Dichloroethane	ug/kg	1.5 UJ	0.80 U	-	-	-
1,2-Dichloropropane	ug/kg	1.6 UJ	0.88 U	-	-	-
1,3-Dichlorobenzene	ug/kg	R	0.85 U	-	-	-
1,4-Dichlorobenzene	ug/kg	R	0.92 U	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	6.8 UJ	3.7 U	-	-	-
2-Hexanone	ug/kg	7.9 UJ	4.2 U	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	7.1 UJ	3.9 U	-	-	-
Acetone	ug/kg	67 J	29	-	-	-
Benzene	ug/kg	1.3 UJ	0.73 U	-	-	-
Bromodichloromethane	ug/kg	1.3 UJ	0.71 U	-	-	-
Bromoform	ug/kg	4.6 UJ	2.5 U	-	-	-
Bromomethane (Methyl bromide)	ug/kg	1.9 UJ	1.0 U	-	-	-
Carbon disulfide	ug/kg	2.2 UJ	1.2 U	-	-	-
Carbon tetrachloride	ug/kg	6.3 UJ	3.4 U	-	-	-
Chlorobenzene	ug/kg	1.8 UJ	0.95 U	-	-	-
Chloroethane	ug/kg	2.3 UJ	1.3 U	-	-	-
Chloroform (Trichloromethane)	ug/kg	1.5 UJ	0.82 U	-	-	-
Chloromethane (Methyl chloride)	ug/kg	2.0 UJ	1.1 U	-	-	-
cis-1,2-Dichloroethene	ug/kg	1.3 UJ	0.68 U	-	-	-
cis-1,3-Dichloropropene	ug/kg	2.8 UJ	1.5 U	-	-	-
Cyclohexane	ug/kg	2.6 UJ	1.4 U	-	-	-
Dibromochloromethane	ug/kg	5.4 UJ	2.9 U	-	-	-
Dichlorodifluoromethane (CFC-12)	ug/kg	1.8 UJ	0.98 U	-	-	-
Ethylbenzene	ug/kg	2.0 UJ	1.1 U	-	-	-
Isopropyl benzene	ug/kg	1.6 UJ	0.86 U	-	-	-
Methyl acetate	ug/kg	6.5 UJ	3.5 U	-	-	-
Methyl cyclohexane	ug/kg	2.4 UJ	1.3 U	-	-	-
Methyl tert butyl ether (MTBE)	ug/kg	1.6 UJ	0.85 U	-	-	-
Methylene chloride	ug/kg	23 UJ	12 U	-	-	-
Styrene	ug/kg	2.2 UJ	1.2 U	-	-	-
Tetrachloroethene	ug/kg	1.4 UJ	0.76 U	-	-	-
Toluene	ug/kg	1.5 J	0.80 U	-	-	-
trans-1,2-Dichloroethene	ug/kg	0.90 UJ	0.48 U	-	-	-
trans-1,3-Dichloropropene	ug/kg	2.0 UJ	1.1 U	-	-	-
Trichloroethene	ug/kg	1.2 UJ	0.66 U	-	-	-

Table 5

Summary of Analytical Results
Soil/Fill Samples - EU5, 6, 7, 8
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-120**	**SS-123**	**SS-158-AS**	**SS-159-AS**	**SS-160-AS**
Sample ID:		**S-38443-053118-JC-118**	**S-38443-053118-JC-116**	**SS-38443-110218-JC-158**	**SS-38443-110218-JC-159**	**SS-38443-110218-JC-160**
Sample Date:		**5/31/2018**	**5/31/2018**	**11/2/2018**	**11/2/2018**	**11/2/2018**
Sample Depth:		**0-2 ft BGS**	**0.3-2.3 ft BGS**	**0.25-0.75 ft BGS**	**0.25-0.75 ft BGS**	**0.17-0.67 ft BGS**
Parameters	**Units**					
Trichlorofluoromethane (CFC-11)	ug/kg	2.1 UJ	1.1 U	-	-	-
Trifluorotrichloroethane (CFC-113)	ug/kg	2.5 UJ	1.3 U	-	-	-
Vinyl chloride	ug/kg	1.6 UJ	0.87 U	-	-	-
Xylenes (total)	ug/kg	3.1 UJ	1.6 U	-	-	-
Semi-Volatiles						
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	23 U	24 U	-	-	-
2,4,5-Trichlorophenol	ug/kg	160 U	160 U	-	-	-
2,4,6-Trichlorophenol	ug/kg	150 U	150 U	-	-	-
2,4-Dichlorophenol	ug/kg	100 U	100 U	-	-	-
2,4-Dimethylphenol	ug/kg	93 U	94 U	-	-	-
2,4-Dinitrophenol	ug/kg	330 U	330 U	-	-	-
2,4-Dinitrotoluene	ug/kg	140 U	150 U	-	-	-
2,6-Dinitrotoluene	ug/kg	130 U	130 U	-	-	-
2-Chloronaphthalene	ug/kg	32 U	33 U	-	-	-
2-Chlorophenol	ug/kg	23 U	24 U	-	-	-
2-Methylnaphthalene	ug/kg	1200	34	-	-	-
2-Methylphenol	ug/kg	72 U	73 U	-	-	-
2-Nitroaniline	ug/kg	93 U	94 U	-	-	-
2-Nitrophenol	ug/kg	30 U	31 U	-	-	-
3&4-Methylphenol	ug/kg	67 U	68 U	-	-	-
3,3'-Dichlorobenzidine	ug/kg	99 U	100 U	-	-	-
3-Nitroaniline	ug/kg	110 U	120 U	-	-	-
4,6-Dinitro-2-methylphenol	ug/kg	190 U	190 U	-	-	-
4-Bromophenyl phenyl ether	ug/kg	32 U	33 U	-	-	-
4-Chloro-3-methylphenol	ug/kg	100 U	110 U	-	-	-
4-Chloroaniline	ug/kg	69 U	71 U	-	-	-
4-Chlorophenyl phenyl ether	ug/kg	32 U	33 U	-	-	-
4-Nitroaniline	ug/kg	140 U	140 U	-	-	-
4-Nitrophenol	ug/kg	220 U	220 U	-	-	-
Acenaphthene	ug/kg	1.8 U	67	-	-	-
Acenaphthylene	ug/kg	0.81 U	95	-	-	-
Acetophenone	ug/kg	95 J	26 U	-	-	-
Anthracene	ug/kg	44	250	-	-	-
Atrazine	ug/kg	83 U	85 U	-	-	-
Benzaldehyde	ug/kg	94 J	54 U	-	-	-
Benzo(a)anthracene	ug/kg	130	940	-	-	-
Benzo(a)pyrene	ug/kg	100	880	-	-	-
Benzo(b)fluoranthene	ug/kg	170	1400	-	-	-
Benzo(g,h,i)perylene	ug/kg	100	520	-	-	-
Benzo(k)fluoranthene	ug/kg	50	510	-	-	-
Biphenyl (1,1-Biphenyl)	ug/kg	120	40 U	-	-	-
bis(2-Chloroethoxy)methane	ug/kg	28 U	28 U	-	-	-
bis(2-Chloroethyl)ether	ug/kg	28 U	28 U	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	320	120 U	-	-	-

Table 5

Summary of Analytical Results
Soil/Fill Samples - EU5, 6, 7, 8
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-120**	**SS-123**	**SS-158-AS**	**SS-159-AS**	**SS-160-AS**
Sample ID:		**S-38443-053118-JC-118**	**S-38443-053118-JC-116**	**SS-38443-110218-JC-158**	**SS-38443-110218-JC-159**	**SS-38443-110218-JC-160**
Sample Date:		**5/31/2018**	**5/31/2018**	**11/2/2018**	**11/2/2018**	**11/2/2018**
Sample Depth:		**0-2 ft BGS**	**0.3-2.3 ft BGS**	**0.25-0.75 ft BGS**	**0.25-0.75 ft BGS**	**0.17-0.67 ft BGS**
Parameters	**Units**					
Butyl benzylphthalate (BBP)	ug/kg	51 U	52 U	-	-	-
Caprolactam	ug/kg	170 U	180 U	-	-	-
Carbazole	ug/kg	44 U	98 J	-	-	-
Chrysene	ug/kg	170	900	-	-	-
Dibenz(a,h)anthracene	ug/kg	1.5 U	1.6 U	-	-	-
Dibenzofuran	ug/kg	290	62 J	-	-	-
Diethyl phthalate	ug/kg	72 U	73 U	-	-	-
Dimethyl phthalate	ug/kg	32 U	33 U	-	-	-
Di-n-butylphthalate (DBP)	ug/kg	53 J	52 U	-	-	-
Di-n-octyl phthalate (DnOP)	ug/kg	65 U	66 U	-	-	-
Fluoranthene	ug/kg	160	2000	-	-	-
Fluorene	ug/kg	1.2 U	84	-	-	-
Hexachlorobenzene	ug/kg	4.9 U	4.9 U	-	-	-
Hexachlorobutadiene	ug/kg	28 U	28 U	-	-	-
Hexachlorocyclopentadiene	ug/kg	140 U	150 U	-	-	-
Hexachloroethane	ug/kg	21 U	21 U	-	-	-
Indeno(1,2,3-cd)pyrene	ug/kg	47	400	-	-	-
Isophorone	ug/kg	28 U	28 U	-	-	-
Naphthalene	ug/kg	740	38	-	-	-
Nitrobenzene	ug/kg	30 U	31 U	-	-	-
N-Nitrosodi-n-propylamine	ug/kg	25 U	26 U	-	-	-
N-Nitrosodiphenylamine	ug/kg	28 U	28 U	-	-	-
Pentachlorophenol	ug/kg	130 U	140 U	-	-	-
Phenanthrene	ug/kg	670	1200	-	-	-
Phenol	ug/kg	19 U	19 U	-	-	-
Pyrene	ug/kg	190	1800	-	-	-
Metals						
Aluminum	mg/kg	1600	5100	-	-	-
Antimony	mg/kg	0.14 U	0.20 J	-	-	-
Arsenic	mg/kg	6.6	5.4	-	-	-
Barium	mg/kg	89	45	-	-	-
Beryllium	mg/kg	0.73	0.32	-	-	-
Cadmium	mg/kg	0.057 J	0.28	-	-	-
Calcium	mg/kg	2300	62000	-	-	-
Chromium	mg/kg	4.7	11	-	-	-
Chromium III (trivalent)	mg/kg	3.9	11	-	-	-
Chromium VI (hexavalent)	mg/kg	0.89 J	0.29 U	-	-	-
Cobalt	mg/kg	3.8	3.6	-	-	-
Copper	mg/kg	15	14	-	-	-
Iron	mg/kg	5000	11000	-	-	-
Lead	mg/kg	4.7	21	-	-	-
Lead - coarse fraction	mg/kg	-	-	-	-	-
Lead - fine fraction	mg/kg	-	310	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-

Table 5

Summary of Analytical Results
Soil/Fill Samples - EU5, 6, 7, 8
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-120**	**SS-123**	**SS-158-AS**	**SS-159-AS**	**SS-160-AS**
Sample ID:		**S-38443-053118-JC-118**	**S-38443-053118-JC-116**	**SS-38443-110218-JC-158**	**SS-38443-110218-JC-159**	**SS-38443-110218-JC-160**
Sample Date:		**5/31/2018**	**5/31/2018**	**11/2/2018**	**11/2/2018**	**11/2/2018**
Sample Depth:		**0-2 ft BGS**	**0.3-2.3 ft BGS**	**0.25-0.75 ft BGS**	**0.25-0.75 ft BGS**	**0.17-0.67 ft BGS**
Parameters	**Units**					
Magnesium	mg/kg	520	55000	-	-	-
Manganese	mg/kg	45	470	-	-	-
Mercury	mg/kg	0.021 U	0.024 J	-	-	-
Nickel	mg/kg	9.2	9.1	-	-	-
Potassium	mg/kg	250	720	-	-	-
Selenium	mg/kg	0.37 J	0.33 J	-	-	-
Silver	mg/kg	0.024 U	0.031 J	-	-	-
Sodium	mg/kg	68 J	220	-	-	-
Thallium	mg/kg	0.13 J	0.10 J	-	-	-
Vanadium	mg/kg	10	16	-	-	-
Zinc	mg/kg	9.2	58	-	-	-
PCBs						
Aroclor-1016 (PCB-1016)	ug/kg	25 U	27 U	-	-	-
Aroclor-1221 (PCB-1221)	ug/kg	27 U	30 U	-	-	-
Aroclor-1232 (PCB-1232)	ug/kg	26 U	29 U	-	-	-
Aroclor-1242 (PCB-1242)	ug/kg	22 U	24 U	-	-	-
Aroclor-1248 (PCB-1248)	ug/kg	27 U	30 U	-	-	-
Aroclor-1254 (PCB-1254)	ug/kg	26 U	29 U	-	-	-
Aroclor-1260 (PCB-1260)	ug/kg	25 U	27 U	-	-	-
Pesticides						
4,4'-DDD	ug/kg	14	17 U	-	-	-
4,4'-DDE	ug/kg	1.8 U	18 U	-	-	-
4,4'-DDT	ug/kg	1.3 U	13 U	-	-	-
Aldrin	ug/kg	0.91 U	8.9 U	-	-	-
alpha-BHC	ug/kg	1.1 U	11 U	-	-	-
alpha-Chlordane	ug/kg	1.8 U	17 U	-	-	-
beta-BHC	ug/kg	2.0 U	20 U	-	-	-
delta-BHC	ug/kg	2.0 U	20 U	-	-	-
Dieldrin	ug/kg	1.3 U	13 U	-	-	-
Endosulfan I	ug/kg	1.4 U	14 U	-	-	-
Endosulfan II	ug/kg	3.7 J	17 U	-	-	-
Endosulfan sulfate	ug/kg	1.5 U	15 U	-	-	-
Endrin	ug/kg	2.2 U	22 U	-	-	-
Endrin aldehyde	ug/kg	1.8 NJ	15 U	-	-	-
Endrin ketone	ug/kg	3.6 J	10 U	-	-	-
gamma-BHC (lindane)	ug/kg	2.1 U	21 U	-	-	-
gamma-Chlordane	ug/kg	1.5 U	14 U	-	-	-
Heptachlor	ug/kg	1.9 U	18 U	-	-	-
Heptachlor epoxide	ug/kg	1.7 U	17 U	-	-	-
Methoxychlor	ug/kg	7.8 U	76 U	-	-	-
Toxaphene	ug/kg	30 U	290 U	-	-	-

Table 5

Summary of Analytical Results
Soil/Fill Samples - EU5, 6, 7, 8
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-120**	**SS-123**	**SS-158-AS**	**SS-159-AS**	**SS-160-AS**
Sample ID:		**S-38443-053118-JC-118**	**S-38443-053118-JC-116**	**SS-38443-110218-JC-158**	**SS-38443-110218-JC-159**	**SS-38443-110218-JC-160**
Sample Date:		**5/31/2018**	**5/31/2018**	**11/2/2018**	**11/2/2018**	**11/2/2018**
Sample Depth:		**0-2 ft BGS**	**0.3-2.3 ft BGS**	**0.25-0.75 ft BGS**	**0.25-0.75 ft BGS**	**0.17-0.67 ft BGS**
Parameters	**Units**					
Asbestos						
Asbestos	%	-	-	ND	ND	ND
General Chemistry						
Cyanide (total)	mg/kg	0.79	0.24 J	-	-	-

Notes
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 6

Summary of Analytical Results
Soil/Fill Samples - EU9
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH120-18**	**BH121-18**	**SS-86**	**SS-87**	**SS-87**	**SS-88**	**SS-90**
Sample ID:		**S-38443-011918-JC-055**	**S-38443-011918-JC-054**	**S-38443-110217-BW-015**	**SS-38443-103118-JC-087**	**SS-38443-103118-JC-119**	**SS-38443-103118-JC-088**	**SS-38443-103118-JC-090**
Sample Date:		**1/19/2018**	**1/19/2018**	**11/2/2017**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**
Sample Depth:		**8-10 ft BGS**	**8-10 ft BGS**	**0-2 ft BGS**	**0.5-2.5 ft BGS**	**0.5-2.5 ft BGS**	**0.5-2.5 ft BGS**	**0.17-2.17 ft BGS**
						Duplicate		
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/kg	0.21 UJ	0.24 UJ	0.33 U	0.83 U	0.82 U	-	0.85 U
1,1,2,2-Tetrachloroethane	ug/kg	0.24 U	0.27 U	0.37 U	1.5 U	1.4 U	-	1.5 U
1,1,2-Trichloroethane	ug/kg	0.35 U	0.41 U	0.55 U	1.1 U	1.1 U	-	1.2 U
1,1-Dichloroethane	ug/kg	0.30 U	0.35 U	0.47 U	0.70 U	0.69 U	-	0.72 U
1,1-Dichloroethene	ug/kg	0.49 U	0.57 U	0.77 U	0.92 U	0.90 U	-	0.94 U
1,2,4-Trichlorobenzene	ug/kg	0.22 U	0.25 U	0.34 U	0.58 U	0.57 U	-	0.59 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	0.62 U	0.71 U	0.96 U	3.7 U	3.6 U	-	3.7 U
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	0.32 U	0.37 U	0.50 U	0.78 U	0.77 U	-	0.80 U
1,2-Dichlorobenzene	ug/kg	0.20 U	0.23 U	0.31 U	1.1 U	1.1 U	-	1.2 U
1,2-Dichloroethane	ug/kg	0.26 U	0.30 U	0.41 U	0.78 U	0.77 U	-	0.80 U
1,2-Dichloropropane	ug/kg	0.28 U	0.33 U	0.44 U	0.86 U	0.85 U	-	0.88 U
1,3-Dichlorobenzene	ug/kg	0.26 U	0.30 U	0.41 U	0.83 U	0.81 U	-	0.85 U
1,4-Dichlorobenzene	ug/kg	0.32 U	0.37 U	0.50 U	0.89 U	0.88 U	-	0.92 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	1.4 J	3.3 J	1.8 U	3.6 U	3.5 U	-	3.7 U
2-Hexanone	ug/kg	0.52 U	0.61 U	0.82 U	4.1 U	4.1 U	-	4.2 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	0.81 U	0.93 U	1.3 U	3.8 U	3.7 U	-	3.9 U
Acetone	ug/kg	8.9 U	11 U	4.3 U	21 U	21 U	-	22 U
Benzene	ug/kg	0.29 U	0.34 U	0.45 U	0.71 U	0.70 U	-	0.73 U
Bromodichloromethane	ug/kg	0.30 U	0.35 U	0.47 U	0.69 U	0.68 U	-	0.71 U
Bromoform	ug/kg	0.36 U	0.42 U	0.57 U	2.4 U	2.4 U	-	2.5 U
Bromomethane (Methyl bromide)	ug/kg	0.53 U	0.62 U	0.84 UJ	1.0 U	0.98 U	-	1.0 U
Carbon disulfide	ug/kg	0.19 U	0.22 U	0.30 U	1.2 U	1.2 U	-	1.2 U
Carbon tetrachloride	ug/kg	0.23 U	0.26 U	0.35 U	3.3 U	3.2 U	-	3.4 U
Chlorobenzene	ug/kg	0.30 U	0.35 U	0.47 U	0.93 U	0.91 U	-	0.95 U
Chloroethane	ug/kg	0.34 U	0.40 U	0.54 U	1.2 U	1.2 U	-	1.3 U
Chloroform (Trichloromethane)	ug/kg	0.21 U	0.24 U	0.33 U	0.80 U	0.78 U	-	0.82 U
Chloromethane (Methyl chloride)	ug/kg	0.34 U	0.40 U	0.54 U	1.1 U	1.0 U	-	1.1 U
cis-1,2-Dichloroethene	ug/kg	0.25 U	0.29 U	0.40 U	0.66 U	0.65 U	-	0.68 U
cis-1,3-Dichloropropene	ug/kg	0.24 U	0.27 U	0.37 U	1.5 U	1.4 U	-	1.5 U
Cyclohexane	ug/kg	0.19 U	0.22 U	0.30 U	1.4 U	1.4 U	-	1.4 U
Dibromochloromethane	ug/kg	0.27 U	0.31 U	0.43 U	2.8 U	2.8 U	-	2.9 U
Dichlorodifluoromethane (CFC-12)	ug/kg	0.32 U	0.37 U	0.50 U	0.96 U	0.94 U	-	0.98 UJ
Ethylbenzene	ug/kg	0.24 U	0.28 U	0.38 U	1.1 U	1.0 U	-	1.1 U
Isopropyl benzene	ug/kg	0.18 U	0.21 U	0.28 U	0.84 U	0.83 U	-	0.87 U
Methyl acetate	ug/kg	1.1 U	1.2 U	1.7 U	3.5 U	3.4 U	-	3.5 UJ
Methyl cyclohexane	ug/kg	0.21 U	0.24 U	0.33 U	1.2 U	1.2 U	-	1.3 U
Methyl tert butyl ether (MTBE)	ug/kg	0.24 U	0.28 U	0.38 U	0.83 U	0.82 U	-	0.85 U
Methylene chloride	ug/kg	5.3 U	5.5 U	0.34 U	12 U	12 U	-	12 U
Styrene	ug/kg	0.24 U	0.28 U	0.38 U	1.2 U	1.2 U	-	1.2 U
Tetrachloroethene	ug/kg	0.33 U	0.39 U	0.52 U	0.74 U	0.73 U	-	0.76 U
Toluene	ug/kg	0.31 U	0.36 U	0.48 U	0.78 U	0.77 U	-	0.80 U
trans-1,2-Dichloroethene	ug/kg	0.34 U	0.40 U	0.54 U	0.47 U	0.46 U	-	0.48 U
trans-1,3-Dichloropropene	ug/kg	0.19 U	0.22 U	0.30 U	1.0 U	1.0 U	-	1.1 U
Trichloroethene	ug/kg	0.37 U	0.43 U	0.58 U	0.64 U	0.63 U	-	0.66 U

Table 6

Summary of Analytical Results
Soil/Fill Samples - EU9
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH120-18**	**BH121-18**	**SS-86**	**SS-87**	**SS-87**	**SS-88**	**SS-90**
Sample ID:		**S-38443-011918-JC-055**	**S-38443-011918-JC-054**	**S-38443-110217-BW-015**	**SS-38443-103118-JC-087**	**SS-38443-103118-JC-119**	**SS-38443-103118-JC-088**	**SS-38443-103118-JC-090**
Sample Date:		**1/19/2018**	**1/19/2018**	**11/2/2017**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**
Sample Depth:		**8-10 ft BGS**	**8-10 ft BGS**	**0-2 ft BGS**	**0.5-2.5 ft BGS**	**0.5-2.5 ft BGS**	**0.5-2.5 ft BGS**	**0.17-2.17 ft BGS**
						Duplicate		
Parameters	**Units**							
Trichlorofluoromethane (CFC-11)	ug/kg	0.22 U	0.25 U	0.34 U	1.1 U	1.1 U	-	1.1 U
Trifluorotrichloroethane (CFC-113)	ug/kg	0.44 U	0.51 U	0.69 U	1.3 U	1.3 U	-	1.3 U
Vinyl chloride	ug/kg	0.25 U	0.29 U	0.40 U	0.85 U	0.83 U	-	0.87 U
Xylenes (total)	ug/kg	0.36 U	0.42 U	0.57 U	1.6 U	1.6 U	-	1.6 U
Semi-Volatiles								
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	11 U	11 U	570 U	23 U	22 U	-	10 U
2,4,5-Trichlorophenol	ug/kg	29 U	30 U	1500 U	160 U	150 U	-	72 U
2,4,6-Trichlorophenol	ug/kg	10 U	11 U	540 U	150 U	140 U	-	67 U
2,4-Dichlorophenol	ug/kg	24 U	24 U	1200 U	100 U	98 U	-	46 U
2,4-Dimethylphenol	ug/kg	24 U	24 U	1200 U	92 U	89 U	-	42 U
2,4-Dinitrophenol	ug/kg	25 U	25 U	1300 U	330 U	320 U	-	150 U
2,4-Dinitrotoluene	ug/kg	20 U	20 U	1000 U	140 U	140 U	-	65 U
2,6-Dinitrotoluene	ug/kg	25 U	25 U	1300 U	130 U	120 U	-	59 U
2-Chloronaphthalene	ug/kg	0.53 U	0.54 U	27 U	32 U	31 U	-	15 U
2-Chlorophenol	ug/kg	9.7 U	9.8 U	500 U	23 U	22 U	-	10 U
2-Methylnaphthalene	ug/kg	17	15	490	39	32 J	-	33
2-Methylphenol	ug/kg	13 U	13 U	670 U	71 U	69 U	-	33 U
2-Nitroaniline	ug/kg	11 U	11 U	550 U	92 U	89 U	-	42 U
2-Nitrophenol	ug/kg	9.8 U	10 U	500 U	30 U	29 U	-	14 U
3&4-Methylphenol	ug/kg	24 U	24 U	1200 U	67 U	65 U	-	30 U
3,3'-Dichlorobenzidine	ug/kg	21 U	22 U	1100 U	99 U	96 U	-	45 U
3-Nitroaniline	ug/kg	19 U	19 U	970 U	110 U	110 U	-	51 U
4,6-Dinitro-2-methylphenol	ug/kg	11 U	11 U	560 U	180 U	180 U	-	84 U
4-Bromophenyl phenyl ether	ug/kg	15 U	16 U	790 U	32 U	31 U	-	15 U
4-Chloro-3-methylphenol	ug/kg	25 U	25 U	1300 U	100 U	100 U	-	47 U
4-Chloroaniline	ug/kg	20 U	20 U	1000 U	69 U	67 U	-	31 U
4-Chlorophenyl phenyl ether	ug/kg	15 U	16 U	790 U	32 U	31 U	-	15 U
4-Methylphenol	ug/kg	-	-	-	-	-	-	-
4-Nitroaniline	ug/kg	31 U	31 U	1600 U	140 U	130 U	-	63 U
4-Nitrophenol	ug/kg	20 U	20 U	1000 U	220 U	210 U	-	99 U
Acenaphthene	ug/kg	0.89 U	48	5300	87	97	-	3.0 U
Acenaphthylene	ug/kg	0.41 U	4.4 J	21 U	37	26 J	-	4.2 U
Acetophenone	ug/kg	11 U	11 U	560 U	25 U	24 U	-	12 U
Anthracene	ug/kg	5.3 J	170	12000	210	200	-	6.6 J
Atrazine	ug/kg	11 U	11 U	550 U	83 U	80 U	-	38 U
Benzaldehyde	ug/kg	14 U	14 U	730 U	53 U	51 U	-	24 U
Benzo(a)anthracene	ug/kg	34	520	27000	960	890	-	34
Benzo(a)pyrene	ug/kg	47	350	17000	910	920	-	35
Benzo(b)fluoranthene	ug/kg	84	540	25000	1400	1200	-	56
Benzo(g,h,i)perylene	ug/kg	48	160	8700	350	730	-	20
Benzo(k)fluoranthene	ug/kg	27	260	9500	580	490	-	17
Biphenyl (1,1-Biphenyl)	ug/kg	4.1 U	6.0 J	210 U	39 U	38 U	-	18 U
bis(2-Chloroethoxy)methane	ug/kg	26 U	26 U	1300 U	28 U	27 U	-	13 U
bis(2-Chloroethyl)ether	ug/kg	2.4 U	2.4 U	120 U	28 U	27 U	-	13 U

Table 6

Summary of Analytical Results
Soil/Fill Samples - EU9
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH120-18**	**BH121-18**	**SS-86**	**SS-87**	**SS-87**	**SS-88**	**SS-90**
Sample ID:		**S-38443-011918-JC-055**	**S-38443-011918-JC-054**	**S-38443-110217-BW-015**	**SS-38443-103118-JC-087**	**SS-38443-103118-JC-119**	**SS-38443-103118-JC-088**	**SS-38443-103118-JC-090**
Sample Date:		**1/19/2018**	**1/19/2018**	**11/2/2017**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**
Sample Depth:		**8-10 ft BGS**	**8-10 ft BGS**	**0-2 ft BGS**	**0.5-2.5 ft BGS**	**0.5-2.5 ft BGS**	**0.5-2.5 ft BGS**	**0.17-2.17 ft BGS**
						Duplicate		
Parameters	**Units**							
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	22 U	57 J	1100 U	120 U	110 U	-	54 U
Butyl benzylphthalate (BBP)	ug/kg	12 U	12 U	600 U	51 U	49 U	-	23 U
Caprolactam	ug/kg	44 U	44 U	2200 U	170 U	170 U	-	79 U
Carbazole	ug/kg	32 U	60	8400	180	190	-	23 J
Chrysene	ug/kg	49	480	29000	1000	970	-	40
Dibenz(a,h)anthracene	ug/kg	14	54	2700	100	180	-	8.3 J
Dibenzofuran	ug/kg	0.78 U	26 J	2700 J	41 J	41 J	-	14 U
Diethyl phthalate	ug/kg	19 U	19 U	970 U	71 U	69 U	-	33 U
Dimethyl phthalate	ug/kg	20 U	20 U	1000 U	32 U	31 U	-	15 U
Di-n-butylphthalate (DBP)	ug/kg	18 U	18 U	910 U	51 U	49 U	-	23 U
Di-n-octyl phthalate (DnOP)	ug/kg	9.3 U	9.5 U	480 U	64 U	62 U	-	29 U
Fluoranthene	ug/kg	57	1200	65000	1900	1800	-	62
Fluorene	ug/kg	0.62 U	45	5300	62	65	-	2.9 U
Hexachlorobenzene	ug/kg	2.5 U	2.5 U	130 U	6.6 U	6.3 U	-	3.0 U
Hexachlorobutadiene	ug/kg	6.6 U	6.7 U	340 U	28 U	27 U	-	13 U
Hexachlorocyclopentadiene	ug/kg	9.5 U	9.7 U	490 U	140 U	140 U	-	65 U
Hexachloroethane	ug/kg	11 U	11 U	540 U	21 U	20 U	-	9.4 U
Indeno(1,2,3-cd)pyrene	ug/kg	38	160	7600	350	620	-	14 J
Isophorone	ug/kg	15 U	16 U	790 U	28 U	27 U	-	13 U
Naphthalene	ug/kg	11	20	500	30 J	29 J	-	25
Nitrobenzene	ug/kg	2.6 U	2.6 U	130 U	30 U	29 U	-	14 U
N-Nitrosodi-n-propylamine	ug/kg	7.4 U	7.6 U	380 U	25 U	24 U	-	12 U
N-Nitrosodiphenylamine	ug/kg	25 U	25 U	1300 U	28 U	27 U	-	13 U
Pentachlorophenol	ug/kg	11 U	11 U	550 U	130 UJ	130 UJ	-	61 UJ
Phenanthrene	ug/kg	41	530	52000	980	1100	-	44
Phenol	ug/kg	8.6 U	8.8 U	440 U	18 U	18 U	-	8.4 U
Pyrene	ug/kg	51	910	50000	1900	1900	-	63
Metals								
Aluminum	mg/kg	9300	6500	6500 J	6500	6200	-	4700
Antimony	mg/kg	0.31 J	3.0	0.55 J	0.21 J	0.27 J	-	0.30 J
Arsenic	mg/kg	12	16	15	6.7	6.2	-	4.1
Barium	mg/kg	100	280	130	55	61	-	70
Beryllium	mg/kg	0.55	2.3	1.2	0.52	0.49	-	0.97
Cadmium	mg/kg	0.38	2.6	0.35	0.24	0.25	-	0.82
Calcium	mg/kg	46000	94000	58000	96000	93000	-	110000
Chromium	mg/kg	14	89	13	11	11	-	57
Chromium III (trivalent)	mg/kg	14	89	-	11	11	-	57
Chromium VI (hexavalent)	mg/kg	1.4 U	1.4 U	-	0.28 U	0.27 U	-	0.42 J
Cobalt	mg/kg	8.4	9.8	6.8	4.3	4.4	-	4.3
Copper	mg/kg	18	4700	37	20	21	-	3700
Iron	mg/kg	17000	59000	13000	12000	11000	-	17000
Lead	mg/kg	23	680	58	28	36	-	210
Magnesium	mg/kg	25000	29000	24000	36000	29000	-	41000
Manganese	mg/kg	810	700	270	350	370	-	300

Table 6

Summary of Analytical Results
Soil/Fill Samples - EU9
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH120-18**	**BH121-18**	**SS-86**	**SS-87**	**SS-87**	**SS-88**	**SS-90**
Sample ID:		**S-38443-011918-JC-055**	**S-38443-011918-JC-054**	**S-38443-110217-BW-015**	**SS-38443-103118-JC-087**	**SS-38443-103118-JC-119**	**SS-38443-103118-JC-088**	**SS-38443-103118-JC-090**
Sample Date:		**1/19/2018**	**1/19/2018**	**11/2/2017**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**
Sample Depth:		**8-10 ft BGS**	**8-10 ft BGS**	**0-2 ft BGS**	**0.5-2.5 ft BGS**	**0.5-2.5 ft BGS**	**0.5-2.5 ft BGS**	**0.17-2.17 ft BGS**
						Duplicate		
Parameters	**Units**							
Mercury	mg/kg	0.027 J	0.13	0.15	0.029 J	0.053 J	-	0.064 J
Nickel	mg/kg	15	38	16	12	12	-	47
Potassium	mg/kg	1100	740	960	720	720	-	560
Selenium	mg/kg	0.62 J	0.62 J	1.4	0.68 J	0.62 J	-	0.33 J
Silver	mg/kg	0.055 J	0.64	0.094 J	0.044 J	0.053 J	-	0.81
Sodium	mg/kg	78 J	240	130 U	120 J	110 J	-	160 J
Thallium	mg/kg	0.21	0.14 J	0.53	0.16 J	0.19	-	0.10 J
Vanadium	mg/kg	23	18	30	17	18	-	60
Zinc	mg/kg	66	2000	81	59	70	-	1000
PCBs								
Aroclor-1016 (PCB-1016)	ug/kg	26 U	26 U	28 UJ	25 U	24 U	-	23 U
Aroclor-1221 (PCB-1221)	ug/kg	28 U	28 U	27 U	27 U	27 U	-	25 U
Aroclor-1232 (PCB-1232)	ug/kg	27 U	27 U	19 U	26 U	25 U	-	24 U
Aroclor-1242 (PCB-1242)	ug/kg	22 U	22 U	23 U	21 U	21 U	-	20 U
Aroclor-1248 (PCB-1248)	ug/kg	28 U	28 U	20 U	27 U	27 U	-	25 U
Aroclor-1254 (PCB-1254)	ug/kg	50 J	27 U	41 J	26 U	25 U	-	24 U
Aroclor-1260 (PCB-1260)	ug/kg	26 U	26 U	21 U	25 U	24 U	-	23 U
Pesticides								
4,4'-DDD	ug/kg	4.0 U	4.0 U	21 U	1.7 U	1.6 U	-	1.5 U
4,4'-DDE	ug/kg	1.4 U	1.4 U	7.5 U	1.7 U	1.7 U	-	1.6 U
4,4'-DDT	ug/kg	1.7 U	1.7 U	8.8 U	1.7 J	1.3 U	-	1.2 U
Aldrin	ug/kg	2.9 U	2.9 U	15 U	0.87 U	0.85 U	-	0.81 U
alpha-BHC	ug/kg	1.9 U	1.9 U	10 U	1.0 U	1.0 U	-	0.95 U
alpha-Chlordane	ug/kg	4.6 U	4.6 U	24 U	1.7 U	1.7 U	-	1.6 U
beta-BHC	ug/kg	4.7 U	4.7 U	24 U	1.9 U	1.9 U	-	1.8 U
delta-BHC	ug/kg	1.6 U	1.6 U	8.2 U	1.9 U	1.9 U	-	1.8 U
Dieldrin	ug/kg	1.1 U	1.1 U	5.6 U	1.2 U	1.2 U	-	1.2 U
Endosulfan I	ug/kg	1.6 U	1.6 U	8.2 U	1.4 U	1.3 U	-	1.3 U
Endosulfan II	ug/kg	2.2 U	2.2 U	11 U	1.7 U	1.6 U	-	1.5 U
Endosulfan sulfate	ug/kg	1.4 U	1.4 U	7.5 U	1.4 U	1.4 U	-	1.3 U
Endrin	ug/kg	1.7 U	1.7 U	8.8 U	2.1 U	2.1 U	-	2.0 U
Endrin aldehyde	ug/kg	2.2 U	2.2 U	11 U	1.6 J	4.1 J	-	1.4 U
Endrin ketone	ug/kg	1.3 U	1.3 U	6.9 U	1.0 U	0.99 U	-	0.93 U
gamma-BHC (lindane)	ug/kg	3.5 U	3.5 U	18 U	2.0 U	2.0 U	-	1.9 U
gamma-Chlordane	ug/kg	1.8 U	1.8 U	9.4 U	1.4 U	1.4 U	-	1.3 U
Heptachlor	ug/kg	0.94 U	0.94 U	4.9 U	1.8 U	1.8 U	-	1.7 U
Heptachlor epoxide	ug/kg	2.9 U	2.9 U	15 U	1.6 U	1.6 U	-	1.5 U
Methoxychlor	ug/kg	1.4 U	1.8 NJ	7.5 U	7.4 U	7.3 U	-	6.9 U
Toxaphene	ug/kg	44 U	45 U	230 U	28 U	28 U	-	26 U
Herbicides								
2,4,5-T	ug/kg	-	-	-	-	-	15 U	-
2,4,5-TP (Silvex)	ug/kg	-	-	-	-	-	16 U	-

Table 6

Summary of Analytical Results
Soil/Fill Samples - EU9
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH120-18**	**BH121-18**	**SS-86**	**SS-87**	**SS-87**	**SS-88**	**SS-90**
Sample ID:		**S-38443-011918-JC-055**	**S-38443-011918-JC-054**	**S-38443-110217-BW-015**	**SS-38443-103118-JC-087**	**SS-38443-103118-JC-119**	**SS-38443-103118-JC-088**	**SS-38443-103118-JC-090**
Sample Date:		**1/19/2018**	**1/19/2018**	**11/2/2017**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**
Sample Depth:		**8-10 ft BGS**	**8-10 ft BGS**	**0-2 ft BGS**	**0.5-2.5 ft BGS**	**0.5-2.5 ft BGS**	**0.5-2.5 ft BGS**	**0.17-2.17 ft BGS**
						Duplicate		
Parameters	**Units**							
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	-	-	-	-	-	55 U	-
Dioxin/Furans								
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Asbestos								
Asbestos	%	ND	ND	-	-	-	-	-
General Chemistry								
Cyanide (total)	mg/kg	0.088 U	7.1	0.51 U	0.20 U	0.23 U	-	0.22 U
Total solids	%	-	-	-	-	-	-	-

Notes
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 6

Summary of Analytical Results
Soil/Fill Samples - EU9
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-91**	**SS-92**	**SS-93**	**SS-161-AS**	**SS-162-AS**	**TP-17**	**TT-13**
Sample ID:		**SS-38443-103118-JC-091**	**SS-38443-103118-JC-092**	**SS-38443-103118-JC-093**	**SS-38443-103118-JC-161**	**SS-38443-103118-JC-162**	**S-38443-110217-BW-016**	**S-38443-092508-KMV-017**
Sample Date:		**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**11/2/2017**	**9/25/2008**
Sample Depth:		**0.5-2.5 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.5-1 ft BGS**	**0.17-0.67 ft BGS**	**8-10 ft BGS**	**7 ft BGS**
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/kg	0.73 U	0.98 U	0.81 U	-	-	0.49 U	4.7 U
1,1,2,2-Tetrachloroethane	ug/kg	1.3 U	1.7 U	R	-	-	0.55 U	4.7 U
1,1,2-Trichloroethane	ug/kg	1.0 U	1.3 U	1.1 U	-	-	0.83 U	4.7 U
1,1-Dichloroethane	ug/kg	0.62 U	4.3 J	0.69 U	-	-	0.70 U	4.7 U
1,1-Dichloroethene	ug/kg	0.80 U	1.1 U	0.90 U	-	-	1.1 U	4.7 U
1,2,4-Trichlorobenzene	ug/kg	0.51 U	0.68 U	R	-	-	0.51 U	4.7 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	3.2 U	4.3 U	R	-	-	1.4 U	9.4 U
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	0.69 U	0.92 U	0.76 U	-	-	0.74 U	4.7 U
1,2-Dichlorobenzene	ug/kg	0.99 U	1.3 U	R	-	-	0.47 U	4.7 U
1,2-Dichloroethane	ug/kg	0.69 U	0.92 U	0.77 U	-	-	0.62 U	4.7 U
1,2-Dichloropropane	ug/kg	0.76 U	1.0 U	0.84 U	-	-	0.66 U	4.7 U
1,3-Dichlorobenzene	ug/kg	0.73 U	0.97 U	R	-	-	0.62 U	4.7 U
1,4-Dichlorobenzene	ug/kg	0.79 U	1.1 U	R	-	-	0.74 U	4.7 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	3.2 U	41	6.6 J	-	-	2.7 U	19 U
2-Hexanone	ug/kg	3.6 U	4.9 U	4.0 U	-	-	1.2 U	19 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	3.3 U	4.4 U	3.7 U	-	-	1.9 U	19 U
Acetone	ug/kg	19 U	180	22 J	-	-	6.5 U	19 U
Benzene	ug/kg	0.62 U	0.83 U	0.69 U	-	-	0.68 U	4.7 U
Bromodichloromethane	ug/kg	0.60 U	0.81 U	0.67 U	-	-	0.70 U	4.7 U
Bromoform	ug/kg	2.1 U	2.9 U	2.4 U	-	-	0.85 U	4.7 U
Bromomethane (Methyl bromide)	ug/kg	0.88 U	1.2 U	0.98 U	-	-	1.3 UJ	4.7 U
Carbon disulfide	ug/kg	1.0 U	1.4 U	1.2 U	-	-	0.45 U	4.7 U
Carbon tetrachloride	ug/kg	2.9 U	3.9 U	3.2 U	-	-	0.53 U	4.7 U
Chlorobenzene	ug/kg	0.82 U	1.1 U	0.91 U	-	-	0.70 U	4.7 U
Chloroethane	ug/kg	1.1 U	1.5 U	1.2 U	-	-	0.81 U	4.7 U
Chloroform (Trichloromethane)	ug/kg	0.70 U	0.94 U	0.78 U	-	-	0.49 U	4.7 U
Chloromethane (Methyl chloride)	ug/kg	0.93 U	1.2 U	1.0 U	-	-	0.81 U	4.7 U
cis-1,2-Dichloroethene	ug/kg	0.58 U	0.78 U	0.65 U	-	-	0.60 U	4.7 U
cis-1,3-Dichloropropene	ug/kg	1.3 U	1.7 U	1.4 U	-	-	0.55 U	4.7 U
Cyclohexane	ug/kg	1.2 U	1.6 U	1.4 U	-	-	0.45 U	9.4 U
Dibromochloromethane	ug/kg	2.5 U	3.3 U	2.8 U	-	-	0.64 U	4.7 U
Dichlorodifluoromethane (CFC-12)	ug/kg	0.84 U	1.1 UJ	0.94 U	-	-	0.74 U	4.7 U
Ethylbenzene	ug/kg	0.93 U	2.4 J	1.0 U	-	-	0.57 U	4.7 U
Isopropyl benzene	ug/kg	0.74 U	1.1 J	0.82 U	-	-	0.43 U	4.7 U
Methyl acetate	ug/kg	3.0 U	4.1 UJ	3.4 U	-	-	2.5 U	9.4 U
Methyl cyclohexane	ug/kg	1.1 U	1.5 U	1.2 U	-	-	0.49 U	9.4 U
Methyl tert butyl ether (MTBE)	ug/kg	0.73 U	0.98 U	0.81 U	-	-	0.57 U	19 U
Methylene chloride	ug/kg	11 U	14 U	12 U	-	-	0.51 U	4.7 U
Styrene	ug/kg	1.0 U	1.4 U	1.1 U	-	-	0.57 U	4.7 U
Tetrachloroethene	ug/kg	0.65 U	0.87 U	0.72 U	-	-	0.79 U	4.7 U
Toluene	ug/kg	0.69 U	2.6 J	0.77 U	-	-	0.72 U	4.7 U
trans-1,2-Dichloroethene	ug/kg	0.41 U	0.55 U	0.46 U	-	-	0.81 U	4.7 U
trans-1,3-Dichloropropene	ug/kg	0.92 U	1.2 U	1.0 U	-	-	0.45 U	4.7 U
Trichloroethene	ug/kg	0.56 U	0.75 U	0.63 U	-	-	0.87 U	4.7 U

Table 6

Summary of Analytical Results
Soil/Fill Samples - EU9
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-91**	**SS-92**	**SS-93**	**SS-161-AS**	**SS-162-AS**	**TP-17**	**TT-13**
Sample ID:		**SS-38443-103118-JC-091**	**SS-38443-103118-JC-092**	**SS-38443-103118-JC-093**	**SS-38443-103118-JC-161**	**SS-38443-103118-JC-162**	**S-38443-110217-BW-016**	**S-38443-092508-KMV-017**
Sample Date:		**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**11/2/2017**	**9/25/2008**
Sample Depth:		**0.5-2.5 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.5-1 ft BGS**	**0.17-0.67 ft BGS**	**8-10 ft BGS**	**7 ft BGS**
Parameters	**Units**							
Trichlorofluoromethane (CFC-11)	ug/kg	0.96 U	1.3 U	1.1 U	-	-	0.51 U	4.7 U
Trifluorotrichloroethane (CFC-113)	ug/kg	1.1 U	1.5 U	1.3 U	-	-	1.0 U	4.7 U
Vinyl chloride	ug/kg	0.75 U	1.0 U	0.83 U	-	-	0.60 U	4.7 U
Xylenes (total)	ug/kg	1.4 U	12	1.6 U	-	-	0.85 U	9.4 U
Semi-Volatiles								
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	21 U	560 U	11 U	-	-	11 U	100 U
2,4,5-Trichlorophenol	ug/kg	150 U	3800 U	74 U	-	-	29 U	160 U
2,4,6-Trichlorophenol	ug/kg	140 U	3600 U	69 U	-	-	10 U	160 U
2,4-Dichlorophenol	ug/kg	94 U	2400 U	47 U	-	-	23 U	160 U
2,4-Dimethylphenol	ug/kg	86 U	2200 U	43 U	-	-	23 U	160 U
2,4-Dinitrophenol	ug/kg	300 U	7900 U	150 U	-	-	25 U	350 U
2,4-Dinitrotoluene	ug/kg	130 U	3500 U	67 U	-	-	20 U	210 U
2,6-Dinitrotoluene	ug/kg	120 U	3100 U	60 U	-	-	25 U	210 U
2-Chloronaphthalene	ug/kg	30 U	780 U	15 U	-	-	0.53 U	52 U
2-Chlorophenol	ug/kg	21 U	560 U	11 U	-	-	9.6 U	52 U
2-Methylnaphthalene	ug/kg	78	2900	9.7 J	-	-	1100	7.0 U
2-Methylphenol	ug/kg	66 U	1700 U	33 U	-	-	13 J	210 U
2-Nitroaniline	ug/kg	86 U	2200 U	43 U	-	-	11 U	210 U
2-Nitrophenol	ug/kg	28 U	720 U	14 U	-	-	9.7 U	52 U
3&4-Methylphenol	ug/kg	62 U	1600 U	31 U	-	-	23 U	-
3,3'-Dichlorobenzidine	ug/kg	92 U	2400 U	46 U	-	-	21 U	100 U
3-Nitroaniline	ug/kg	100 U	2700 U	53 U	-	-	19 U	210 U
4,6-Dinitro-2-methylphenol	ug/kg	170 U	4500 U	86 U	-	-	11 U	160 U
4-Bromophenyl phenyl ether	ug/kg	30 U	780 U	15 U	-	-	15 U	52 U
4-Chloro-3-methylphenol	ug/kg	96 U	2500 U	49 U	-	-	25 U	160 U
4-Chloroaniline	ug/kg	64 U	1700 U	32 U	-	-	20 U	160 U
4-Chlorophenyl phenyl ether	ug/kg	30 U	780 U	15 U	-	-	15 U	52 U
4-Methylphenol	ug/kg	-	-	-	-	-	-	210 U
4-Nitroaniline	ug/kg	130 U	3300 U	65 U	-	-	31 U	210 U
4-Nitrophenol	ug/kg	200 U	5200 U	100 U	-	-	20 U	350 U
Acenaphthene	ug/kg	89	160 U	3.1 U	-	-	44	7.1
Acenaphthylene	ug/kg	60	220 U	6.6 J	-	-	30	7.0 U
Acetophenone	ug/kg	24 U	610 U	12 U	-	-	96 J	100 U
Anthracene	ug/kg	250	130 U	13 J	-	-	95	21
Atrazine	ug/kg	77 U	2000 U	39 U	-	-	11 U	210 U
Benzaldehyde	ug/kg	49 U	1300 U	25 U	-	-	95 J	100 U
Benzo(a)anthracene	ug/kg	720	190 U	100	-	-	290	110
Benzo(a)pyrene	ug/kg	690	520 U	84	-	-	210	99
Benzo(b)fluoranthene	ug/kg	970	600 J	340	-	-	400	140
Benzo(g,h,i)perylene	ug/kg	390	630 J	140	-	-	110	71
Benzo(k)fluoranthene	ug/kg	330	390 U	94	-	-	140	52
Biphenyl (1,1-Biphenyl)	ug/kg	36 U	950 U	18 U	-	-	64	52 U
bis(2-Chloroethoxy)methane	ug/kg	26 U	670 U	13 U	-	-	26 U	100 U
bis(2-Chloroethyl)ether	ug/kg	26 U	670 U	13 U	-	-	2.3 U	100 U

Table 6

Summary of Analytical Results
Soil/Fill Samples - EU9
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-91**	**SS-92**	**SS-93**	**SS-161-AS**	**SS-162-AS**	**TP-17**	**TT-13**
Sample ID:		**SS-38443-103118-JC-091**	**SS-38443-103118-JC-092**	**SS-38443-103118-JC-093**	**SS-38443-103118-JC-161**	**SS-38443-103118-JC-162**	**S-38443-110217-BW-016**	**S-38443-092508-KMV-017**
Sample Date:		**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**11/2/2017**	**9/25/2008**
Sample Depth:		**0.5-2.5 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.5-1 ft BGS**	**0.17-0.67 ft BGS**	**8-10 ft BGS**	**7 ft BGS**
Parameters	**Units**							
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	110 U	8600	55 U	-	-	57 U	52 U
Butyl benzylphthalate (BBP)	ug/kg	47 U	1200 U	24 U	-	-	12 U	52 U
Caprolactam	ug/kg	160 U	4200 U	81 U	-	-	43 U	350 U
Carbazole	ug/kg	140	1100 U	21 U	-	-	54 J	52 U
Chrysene	ug/kg	720	83 U	150	-	-	310	110
Dibenz(a,h)anthracene	ug/kg	120	390 U	48	-	-	30	7.0 U
Dibenzofuran	ug/kg	57 J	720 U	14 U	-	-	330	52 U
Diethyl phthalate	ug/kg	66 U	1700 U	33 U	-	-	19 U	52 U
Dimethyl phthalate	ug/kg	30 U	780 U	15 U	-	-	20 U	52 U
Di-n-butylphthalate (DBP)	ug/kg	47 U	1200 U	24 U	-	-	18 U	52 U
Di-n-octyl phthalate (DnOP)	ug/kg	60 U	1600 U	30 U	-	-	9.3 U	52 U
Fluoranthene	ug/kg	1500	1100	110	-	-	560	210
Fluorene	ug/kg	82	530 J	3.0 U	-	-	50	7.0 U
Hexachlorobenzene	ug/kg	6.1 U	160 U	3.1 U	-	-	2.5 U	7.0 U
Hexachlorobutadiene	ug/kg	26 U	670 U	13 U	-	-	6.6 U	52 U
Hexachlorocyclopentadiene	ug/kg	130 U	3500 U	67 U	-	-	9.5 U	350 U
Hexachloroethane	ug/kg	19 U	500 U	9.7 U	-	-	11 U	52 U
Indeno(1,2,3-cd)pyrene	ug/kg	370	410 U	120	-	-	67	59
Isophorone	ug/kg	26 U	670 U	44 J	-	-	15 U	52 U
Naphthalene	ug/kg	59	760 J	13 J	-	-	640	7.0 U
Nitrobenzene	ug/kg	28 U	720 U	14 U	-	-	2.6 U	100 U
N-Nitrosodi-n-propylamine	ug/kg	24 U	610 U	12 U	-	-	7.4 U	52 U
N-Nitrosodiphenylamine	ug/kg	26 U	670 U	13 U	-	-	25 U	52 U
Pentachlorophenol	ug/kg	120 UJ	3200 U	63 U	-	-	11 U	160 U
Phenanthrene	ug/kg	980	1100	84	-	-	700	95
Phenol	ug/kg	17 U	450 U	8.6 U	-	-	8.6 U	52 U
Pyrene	ug/kg	1400	1500	85	-	-	550	200
Metals								
Aluminum	mg/kg	4800	7000	4600	-	-	3100 J	3720
Antimony	mg/kg	0.57	0.52	0.70	-	-	0.18 UJ	0.50 J
Arsenic	mg/kg	6.4	11	12	-	-	7.5	4.2 J
Barium	mg/kg	75	120	280	-	-	74	35.8
Beryllium	mg/kg	0.59	0.61	1.2	-	-	0.37	0.52 U
Cadmium	mg/kg	0.44	1.6	0.44	-	-	0.59	0.21 J
Calcium	mg/kg	85000	80000	76000	-	-	140000	108000
Chromium	mg/kg	12	20	13	-	-	7.5	6.4 J
Chromium III (trivalent)	mg/kg	12	20	13	-	-	-	-
Chromium VI (hexavalent)	mg/kg	0.26 U	0.27 U	0.26 U	-	-	-	-
Cobalt	mg/kg	3.5	6.0	4.7	-	-	3.9	3.5 J
Copper	mg/kg	21	40	50	-	-	19	12.0
Iron	mg/kg	24000	14000	11000	-	-	6900	7740
Lead	mg/kg	42	310	150	-	-	29	12.5
Magnesium	mg/kg	35000	34000	26000	-	-	19000	40800
Manganese	mg/kg	560	470	230	-	-	230	256

Table 6

Summary of Analytical Results
Soil/Fill Samples - EU9
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-91**	**SS-92**	**SS-93**	**SS-161-AS**	**SS-162-AS**	**TP-17**	**TT-13**
Sample ID:		**SS-38443-103118-JC-091**	**SS-38443-103118-JC-092**	**SS-38443-103118-JC-093**	**SS-38443-103118-JC-161**	**SS-38443-103118-JC-162**	**S-38443-110217-BW-016**	**S-38443-092508-KMV-017**
Sample Date:		**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**11/2/2017**	**9/25/2008**
Sample Depth:		**0.5-2.5 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.5-1 ft BGS**	**0.17-0.67 ft BGS**	**8-10 ft BGS**	**7 ft BGS**
Parameters	**Units**							
Mercury	mg/kg	0.048 J	0.17	0.082 J	-	-	0.26	0.10 U
Nickel	mg/kg	10	18	13	-	-	10	8.1
Potassium	mg/kg	650	920	640	-	-	390	559
Selenium	mg/kg	0.44 J	0.77 J	0.75 J	-	-	1.1 J	26.1 U
Silver	mg/kg	0.040 J	0.16 J	0.084 J	-	-	0.043 J	1.0 U
Sodium	mg/kg	160 J	170 J	170 J	-	-	160 U	523 U
Thallium	mg/kg	0.13 J	0.27	0.32	-	-	0.34 J	0.10 U
Vanadium	mg/kg	16	21	17	-	-	13	12.3
Zinc	mg/kg	86	210	130	-	-	38	39.2 J
PCBs								
Aroclor-1016 (PCB-1016)	ug/kg	23 U	240 U	23 U	-	-	29 UJ	35 U
Aroclor-1221 (PCB-1221)	ug/kg	26 U	270 U	26 U	-	-	28 U	35 U
Aroclor-1232 (PCB-1232)	ug/kg	25 U	260 U	25 U	-	-	19 U	35 U
Aroclor-1242 (PCB-1242)	ug/kg	20 U	210 U	20 U	-	-	24 U	35 U
Aroclor-1248 (PCB-1248)	ug/kg	26 U	270 U	26 U	-	-	21 U	35 U
Aroclor-1254 (PCB-1254)	ug/kg	170	260 U	25 U	-	-	17 U	35 U
Aroclor-1260 (PCB-1260)	ug/kg	23 U	240 U	23 U	-	-	22 U	35 U
Pesticides								
4,4'-DDD	ug/kg	1.6 U	33 U	1.6 U	-	-	20 J	18 U
4,4'-DDE	ug/kg	2.7 J	34 U	1.6 U	-	-	7.3 U	18 U
4,4'-DDT	ug/kg	4.7 J	25 U	1.2 U	-	-	8.5 U	18 U
Aldrin	ug/kg	0.82 U	17 U	0.82 U	-	-	15 U	18 U
alpha-BHC	ug/kg	0.97 U	20 U	0.97 U	-	-	9.7 U	18 U
alpha-Chlordane	ug/kg	1.6 U	33 U	1.6 U	-	-	23 U	18 U
beta-BHC	ug/kg	1.8 U	39 U	1.8 U	-	-	24 U	18 U
delta-BHC	ug/kg	1.8 U	38 U	1.8 U	-	-	7.9 U	18 U
Dieldrin	ug/kg	1.2 U	24 U	1.2 U	-	-	5.4 U	18 U
Endosulfan I	ug/kg	1.3 U	27 U	1.3 U	-	-	7.9 U	18 U
Endosulfan II	ug/kg	1.6 U	33 U	1.6 U	-	-	11 U	18 U
Endosulfan sulfate	ug/kg	1.4 U	28 U	1.4 U	-	-	7.3 U	18 U
Endrin	ug/kg	2.0 U	42 U	2.0 U	-	-	8.5 U	18 U
Endrin aldehyde	ug/kg	1.4 U	29 U	1.4 U	-	-	11 U	18 U
Endrin ketone	ug/kg	0.95 U	20 U	0.95 U	-	-	6.7 U	18 U
gamma-BHC (lindane)	ug/kg	1.9 U	40 U	1.9 U	-	-	18 U	18 U
gamma-Chlordane	ug/kg	1.8 J	27 U	1.3 U	-	-	9.1 U	18 U
Heptachlor	ug/kg	1.7 U	35 U	1.7 U	-	-	4.7 U	18 U
Heptachlor epoxide	ug/kg	1.5 U	32 U	1.5 U	-	-	15 U	18 U
Methoxychlor	ug/kg	7.0 U	150 U	7.0 U	-	-	7.3 U	35 U
Toxaphene	ug/kg	27 U	560 U	27 U	-	-	220 U	700 U
Herbicides								
2,4,5-T	ug/kg	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/kg	-	-	-	-	-	-	21 U

Table 6

Summary of Analytical Results
Soil/Fill Samples - EU9
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-91**	**SS-92**	**SS-93**	**SS-161-AS**	**SS-162-AS**	**TP-17**	**TT-13**
Sample ID:		**SS-38443-103118-JC-091**	**SS-38443-103118-JC-092**	**SS-38443-103118-JC-093**	**SS-38443-103118-JC-161**	**SS-38443-103118-JC-162**	**S-38443-110217-BW-016**	**S-38443-092508-KMV-017**
Sample Date:		**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**11/2/2017**	**9/25/2008**
Sample Depth:		**0.5-2.5 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.5-1 ft BGS**	**0.17-0.67 ft BGS**	**8-10 ft BGS**	**7 ft BGS**
Parameters	**Units**							
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	-	-	-	-	-	-	84 UJ
Dioxin/Furans								
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	1.2 U	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	19	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	0.80 J	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	2.7 J	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	0.18 U	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	0.35 J	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	0.18 J	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	0.20 J	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	0.38 J	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	0.090 U	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	0.36 J	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	0.082 U	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	0.26 J	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	0.20 J	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	0.21 J	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	0.38 J	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	0.081 J	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	1.7 J	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	5.2 J	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	4.4 J	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	3.7 J	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	7.7 J	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	8.9 J	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	8.5 J	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	2.8 J	-
Asbestos								
Asbestos	%	-	-	-	ND	ND	-	-
General Chemistry								
Cyanide (total)	mg/kg	0.19 U	0.21 U	0.23 J	-	-	0.54 J	0.52 U
Total solids	%	-	-	-	-	-	-	95.6

Notes
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 6

Summary of Analytical Results
Soil/Fill Samples - EU9
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**VAS-21B**
Sample ID:		**S-38443-060209-DR-001**
Sample Date:		**6/2/2009**
Sample Depth:		**3-5 ft BGS**
Parameters	**Units**	
Volatiles		
1,1,1-Trichloroethane	ug/kg	4.3 U
1,1,2,2-Tetrachloroethane	ug/kg	4.3 U
1,1,2-Trichloroethane	ug/kg	4.3 U
1,1-Dichloroethane	ug/kg	4.3 U
1,1-Dichloroethene	ug/kg	4.3 U
1,2,4-Trichlorobenzene	ug/kg	4.3 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	8.6 U
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	4.3 U
1,2-Dichlorobenzene	ug/kg	4.3 U
1,2-Dichloroethane	ug/kg	4.3 U
1,2-Dichloropropane	ug/kg	4.3 U
1,3-Dichlorobenzene	ug/kg	4.3 U
1,4-Dichlorobenzene	ug/kg	4.3 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	17 U
2-Hexanone	ug/kg	17 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	17 U
Acetone	ug/kg	17 U
Benzene	ug/kg	4.3 U
Bromodichloromethane	ug/kg	4.3 U
Bromoform	ug/kg	4.3 U
Bromomethane (Methyl bromide)	ug/kg	4.3 U
Carbon disulfide	ug/kg	4.3 U
Carbon tetrachloride	ug/kg	4.3 U
Chlorobenzene	ug/kg	4.3 U
Chloroethane	ug/kg	4.3 U
Chloroform (Trichloromethane)	ug/kg	4.3 U
Chloromethane (Methyl chloride)	ug/kg	4.3 U
cis-1,2-Dichloroethene	ug/kg	4.3 U
cis-1,3-Dichloropropene	ug/kg	4.3 U
Cyclohexane	ug/kg	8.6 U
Dibromochloromethane	ug/kg	4.3 U
Dichlorodifluoromethane (CFC-12)	ug/kg	4.3 U
Ethylbenzene	ug/kg	4.3 U
Isopropyl benzene	ug/kg	4.3 U
Methyl acetate	ug/kg	8.6 U
Methyl cyclohexane	ug/kg	8.6 U
Methyl tert butyl ether (MTBE)	ug/kg	17 U
Methylene chloride	ug/kg	4.3 U
Styrene	ug/kg	4.3 U
Tetrachloroethene	ug/kg	4.3 U
Toluene	ug/kg	4.3 U
trans-1,2-Dichloroethene	ug/kg	4.3 U
trans-1,3-Dichloropropene	ug/kg	4.3 U
Trichloroethene	ug/kg	4.3 U

Table 6

Summary of Analytical Results
Soil/Fill Samples - EU9
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**VAS-21B**
Sample ID:		**S-38443-060209-DR-001**
Sample Date:		**6/2/2009**
Sample Depth:		**3-5 ft BGS**
Parameters	**Units**	
Trichlorofluoromethane (CFC-11)	ug/kg	4.3 U
Trifluorotrichloroethane (CFC-113)	ug/kg	4.3 U
Vinyl chloride	ug/kg	4.3 U
Xylenes (total)	ug/kg	8.6 U
Semi-Volatiles		
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	1100 U
2,4,5-Trichlorophenol	ug/kg	1700 U
2,4,6-Trichlorophenol	ug/kg	1700 U
2,4-Dichlorophenol	ug/kg	1700 U
2,4-Dimethylphenol	ug/kg	1700 U
2,4-Dinitrophenol	ug/kg	3700 U
2,4-Dinitrotoluene	ug/kg	2200 U
2,6-Dinitrotoluene	ug/kg	2200 U
2-Chloronaphthalene	ug/kg	550 U
2-Chlorophenol	ug/kg	550 U
2-Methylnaphthalene	ug/kg	74 U
2-Methylphenol	ug/kg	2200 U
2-Nitroaniline	ug/kg	2200 U
2-Nitrophenol	ug/kg	550 U
3&4-Methylphenol	ug/kg	-
3,3'-Dichlorobenzidine	ug/kg	1100 U
3-Nitroaniline	ug/kg	2200 U
4,6-Dinitro-2-methylphenol	ug/kg	1700 U
4-Bromophenyl phenyl ether	ug/kg	550 U
4-Chloro-3-methylphenol	ug/kg	1700 U
4-Chloroaniline	ug/kg	1700 U
4-Chlorophenyl phenyl ether	ug/kg	550 U
4-Methylphenol	ug/kg	2200 U
4-Nitroaniline	ug/kg	2200 U
4-Nitrophenol	ug/kg	3700 U
Acenaphthene	ug/kg	74 U
Acenaphthylene	ug/kg	74 U
Acetophenone	ug/kg	1100 U
Anthracene	ug/kg	280
Atrazine	ug/kg	2200 U
Benzaldehyde	ug/kg	1100 U
Benzo(a)anthracene	ug/kg	360
Benzo(a)pyrene	ug/kg	410
Benzo(b)fluoranthene	ug/kg	480
Benzo(g,h,i)perylene	ug/kg	320
Benzo(k)fluoranthene	ug/kg	310
Biphenyl (1,1-Biphenyl)	ug/kg	550 U
bis(2-Chloroethoxy)methane	ug/kg	1100 U
bis(2-Chloroethyl)ether	ug/kg	1100 U

Table 6

Summary of Analytical Results
Soil/Fill Samples - EU9
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**VAS-21B**
Sample ID:		**S-38443-060209-DR-001**
Sample Date:		**6/2/2009**
Sample Depth:		**3-5 ft BGS**
Parameters	**Units**	
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	550 U
Butyl benzylphthalate (BBP)	ug/kg	550 U
Caprolactam	ug/kg	3700 U
Carbazole	ug/kg	550 U
Chrysene	ug/kg	380
Dibenz(a,h)anthracene	ug/kg	74 U
Dibenzofuran	ug/kg	550 U
Diethyl phthalate	ug/kg	550 U
Dimethyl phthalate	ug/kg	550 U
Di-n-butylphthalate (DBP)	ug/kg	550 U
Di-n-octyl phthalate (DnOP)	ug/kg	550 U
Fluoranthene	ug/kg	690
Fluorene	ug/kg	74 U
Hexachlorobenzene	ug/kg	74 U
Hexachlorobutadiene	ug/kg	550 U
Hexachlorocyclopentadiene	ug/kg	3700 U
Hexachloroethane	ug/kg	550 U
Indeno(1,2,3-cd)pyrene	ug/kg	300
Isophorone	ug/kg	550 U
Naphthalene	ug/kg	74 U
Nitrobenzene	ug/kg	1100 U
N-Nitrosodi-n-propylamine	ug/kg	550 U
N-Nitrosodiphenylamine	ug/kg	550 U
Pentachlorophenol	ug/kg	1700 U
Phenanthrene	ug/kg	360
Phenol	ug/kg	550 U
Pyrene	ug/kg	520
Metals		
Aluminum	mg/kg	5450
Antimony	mg/kg	0.68 J
Arsenic	mg/kg	7.6
Barium	mg/kg	106 J
Beryllium	mg/kg	0.54 J
Cadmium	mg/kg	0.91
Calcium	mg/kg	108000
Chromium	mg/kg	12.7
Chromium III (trivalent)	mg/kg	-
Chromium VI (hexavalent)	mg/kg	-
Cobalt	mg/kg	4.7 J
Copper	mg/kg	66.7 J
Iron	mg/kg	11300
Lead	mg/kg	124 J
Magnesium	mg/kg	32800
Manganese	mg/kg	362

Table 6

Summary of Analytical Results
Soil/Fill Samples - EU9
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**VAS-21B**
Sample ID:		**S-38443-060209-DR-001**
Sample Date:		**6/2/2009**
Sample Depth:		**3-5 ft BGS**
Parameters	**Units**	
Mercury	mg/kg	0.096 J
Nickel	mg/kg	12.8
Potassium	mg/kg	785
Selenium	mg/kg	27.7 U
Silver	mg/kg	1.1 U
Sodium	mg/kg	554 U
Thallium	mg/kg	0.19
Vanadium	mg/kg	17.1
Zinc	mg/kg	291
PCBs		
Aroclor-1016 (PCB-1016)	ug/kg	37 U
Aroclor-1221 (PCB-1221)	ug/kg	37 U
Aroclor-1232 (PCB-1232)	ug/kg	37 U
Aroclor-1242 (PCB-1242)	ug/kg	37 U
Aroclor-1248 (PCB-1248)	ug/kg	37 U
Aroclor-1254 (PCB-1254)	ug/kg	37 U
Aroclor-1260 (PCB-1260)	ug/kg	37 U
Pesticides		
4,4'-DDD	ug/kg	-
4,4'-DDE	ug/kg	-
4,4'-DDT	ug/kg	-
Aldrin	ug/kg	-
alpha-BHC	ug/kg	-
alpha-Chlordane	ug/kg	-
beta-BHC	ug/kg	-
delta-BHC	ug/kg	-
Dieldrin	ug/kg	-
Endosulfan I	ug/kg	-
Endosulfan II	ug/kg	-
Endosulfan sulfate	ug/kg	-
Endrin	ug/kg	-
Endrin aldehyde	ug/kg	-
Endrin ketone	ug/kg	-
gamma-BHC (lindane)	ug/kg	-
gamma-Chlordane	ug/kg	-
Heptachlor	ug/kg	-
Heptachlor epoxide	ug/kg	-
Methoxychlor	ug/kg	-
Toxaphene	ug/kg	-
Herbicides		
2,4,5-T	ug/kg	-
2,4,5-TP (Silvex)	ug/kg	-

Table 6

Summary of Analytical Results
Soil/Fill Samples - EU9
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**VAS-21B**
Sample ID:		**S-38443-060209-DR-001**
Sample Date:		**6/2/2009**
Sample Depth:		**3-5 ft BGS**
Parameters	**Units**	
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	-
Dioxin/Furans		
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-
Asbestos		
Asbestos	%	-
General Chemistry		
Cyanide (total)	mg/kg	-
Total solids	%	90.3

Notes
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 7

Summary of Analytical Results
Soil/Fill Samples - EU10
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH97-17**	**BH97-17**	**BH117-18**	**BH118-18**	**BH118-18**	**BH119-18**	**SS-32**
Sample ID:		**S-38443-120817-JC-005**	**S-38443-120817-JC-006**	**S-38443-011818-JC-050**	**S-38443-011818-JC-051**	**S-38443-011818-JC-052**	**S-38443-011818-JC-053**	**SS-38443-103118-JC-032**
Sample Date:		**12/8/2017**	**12/8/2017**	**1/18/2018**	**1/18/2018**	**1/18/2018**	**1/18/2018**	**10/31/2018**
Sample Depth:		**13-15 ft BGS**	**13-15 ft BGS**	**10-12 ft BGS**	**3-5 ft BGS**	**3-5 ft BGS**	**9-11 ft BGS**	**0.25-2.25 ft BGS**
			Duplicate			**Duplicate**		
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/kg	0.24 U	0.23 U	0.20 UJ	0.24 UJ	0.27 UJ	0.21 UJ	0.97 U
1,1,2,2-Tetrachloroethane	ug/kg	0.27 U	0.26 U	0.23 U	0.27 U	0.31 U	0.24 U	1.7 U
1,1,2-Trichloroethane	ug/kg	0.41 U	0.39 U	0.34 U	0.41 U	0.46 U	0.36 U	1.3 U
1,1-Dichloroethane	ug/kg	0.34 U	0.33 U	0.29 U	0.35 U	0.39 U	0.31 U	0.82 U
1,1-Dichloroethene	ug/kg	0.56 U	0.54 U	0.48 U	0.57 U	0.63 U	0.50 U	1.1 U
1,2,4-Trichlorobenzene	ug/kg	0.25 U	0.24 U	0.21 U	0.25 U	0.28 U	0.22 U	0.68 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	0.71 U	0.67 U	0.60 U	0.72 U	0.80 U	0.63 U	4.3 U
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	0.36 U	0.35 U	0.31 U	0.37 U	0.41 U	0.32 U	0.91 U
1,2-Dichlorobenzene	ug/kg	0.23 U	0.22 U	0.19 U	0.23 U	0.26 U	0.20 U	1.3 U
1,2-Dichloroethane	ug/kg	0.30 U	0.29 U	0.26 U	0.31 U	0.34 U	0.27 U	0.92 U
1,2-Dichloropropane	ug/kg	0.32 U	0.31 U	0.27 U	0.33 U	0.36 U	0.29 U	1.0 U
1,3-Dichlorobenzene	ug/kg	0.30 U	0.29 U	0.26 U	0.31 U	0.34 U	0.27 U	0.97 U
1,4-Dichlorobenzene	ug/kg	0.36 U	0.35 U	0.31 U	0.37 U	0.41 U	0.32 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	3.5 J	3.1 J	1.1 U	7.3 J	6.4 J	1.2 U	4.2 U
2-Hexanone	ug/kg	0.60 U	0.58 U	0.51 U	0.61 U	0.68 U	0.54 U	4.8 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	0.93 U	0.88 U	0.79 U	0.94 U	1.0 U	0.82 U	4.4 U
Acetone	ug/kg	17 J	20	8.8 U	42	37	9.0 U	25 U
Benzene	ug/kg	0.33 U	0.32 U	0.28 U	0.34 U	0.38 U	0.30 U	0.83 U
Bromodichloromethane	ug/kg	0.34 U	0.33 U	0.29 U	0.35 U	0.39 U	0.31 U	0.81 U
Bromoform	ug/kg	0.42 U	0.40 U	0.35 U	0.42 U	0.47 U	0.37 U	2.8 U
Bromomethane (Methyl bromide)	ug/kg	0.61 U	0.59 U	0.52 U	0.62 U	0.69 U	0.55 U	1.2 U
Carbon disulfide	ug/kg	0.22 U	0.21 U	0.19 U	0.34 J	0.38 J	0.19 U	1.4 U
Carbon tetrachloride	ug/kg	0.26 U	0.25 U	0.22 U	0.26 U	0.29 U	0.23 U	3.9 U
Chlorobenzene	ug/kg	0.34 U	0.33 U	0.29 U	0.35 U	0.39 U	0.31 U	1.1 U
Chloroethane	ug/kg	0.40 U	0.38 U	0.34 U	0.40 U	0.45 U	0.35 U	1.4 U
Chloroform (Trichloromethane)	ug/kg	0.24 U	0.23 U	0.20 U	0.24 U	0.27 U	0.21 U	0.94 U
Chloromethane (Methyl chloride)	ug/kg	0.40 U	0.38 U	0.34 U	0.40 U	0.45 U	0.35 U	1.2 U
cis-1,2-Dichloroethene	ug/kg	0.29 U	0.28 U	0.25 U	0.30 U	0.33 U	0.26 U	0.77 U
cis-1,3-Dichloropropene	ug/kg	0.27 U	0.26 U	0.23 U	0.27 U	0.31 U	0.24 U	1.7 U
Cyclohexane	ug/kg	0.22 U	0.21 U	0.19 U	0.22 U	0.25 U	0.19 U	1.6 U
Dibromochloromethane	ug/kg	0.31 U	0.30 U	0.27 U	0.32 U	0.35 U	0.28 U	3.3 U
Dichlorodifluoromethane (CFC-12)	ug/kg	0.36 U	0.35 U	0.31 U	0.37 U	0.41 U	0.32 U	1.1 U
Ethylbenzene	ug/kg	0.28 U	0.27 U	0.24 U	0.28 U	0.32 U	0.25 U	1.2 U
Isopropyl benzene	ug/kg	0.21 U	0.20 U	0.18 U	0.21 U	0.23 U	0.19 U	0.99 U
Methyl acetate	ug/kg	1.2 U	1.2 U	1.0 U	1.2 U	1.4 U	1.1 U	4.0 U
Methyl cyclohexane	ug/kg	0.24 U	0.23 U	0.20 U	0.24 U	0.27 U	0.21 U	1.5 U
Methyl tert butyl ether (MTBE)	ug/kg	0.28 U	0.27 U	0.24 U	0.28 U	0.32 U	0.25 U	0.97 U
Methylene chloride	ug/kg	0.49 U	0.46 U	5.3 U	5.0 U	6.8 U	5.4 U	14 U
Styrene	ug/kg	0.28 U	0.27 U	0.24 U	0.28 U	0.32 U	0.25 U	1.4 U
Tetrachloroethene	ug/kg	0.39 U	0.37 U	0.33 U	0.39 U	0.43 U	0.34 U	0.87 U
Toluene	ug/kg	0.35 U	0.34 U	0.30 U	0.36 U	0.40 U	0.31 U	0.92 U
trans-1,2-Dichloroethene	ug/kg	0.40 U	0.38 U	0.34 U	0.40 U	0.45 U	0.35 U	0.55 U
trans-1,3-Dichloropropene	ug/kg	0.22 U	0.21 U	0.19 U	0.22 U	0.25 U	0.19 U	1.2 U
Trichloroethene	ug/kg	0.43 U	0.41 U	0.36 U	0.43 U	0.48 U	0.38 U	0.75 U
Trichlorofluoromethane (CFC-11)	ug/kg	0.25 U	0.24 U	0.21 U	0.25 U	0.28 U	0.22 U	1.3 U

Table 7

Summary of Analytical Results
Soil/Fill Samples - EU10
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH97-17**	**BH97-17**	**BH117-18**	**BH118-18**	**BH118-18**	**BH119-18**	**SS-32**
Sample ID:		**S-38443-120817-JC-005**	**S-38443-120817-JC-006**	**S-38443-011818-JC-050**	**S-38443-011818-JC-051**	**S-38443-011818-JC-052**	**S-38443-011818-JC-053**	**SS-38443-103118-JC-032**
Sample Date:		**12/8/2017**	**12/8/2017**	**1/18/2018**	**1/18/2018**	**1/18/2018**	**1/18/2018**	**10/31/2018**
Sample Depth:		**13-15 ft BGS**	**13-15 ft BGS**	**10-12 ft BGS**	**3-5 ft BGS**	**3-5 ft BGS**	**9-11 ft BGS**	**0.25-2.25 ft BGS**
			Duplicate			**Duplicate**		
Parameters	**Units**							
Trifluorotrichloroethane (CFC-113)	ug/kg	0.51 U	0.49 U	0.43 U	0.52 U	0.58 U	0.45 U	1.5 U
Vinyl chloride	ug/kg	0.29 U	0.28 J	0.25 U	0.30 U	0.33 U	0.26 U	0.99 U
Xylenes (total)	ug/kg	0.42 U	0.40 U	0.35 U	0.42 U	0.47 U	0.37 U	1.9 U
Semi-Volatiles								
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	11 U	11 U	11 U	10 U	11 U	11 U	10 U
2,4,5-Trichlorophenol	ug/kg	29 U	29 U	29 U	26 U	28 U	29 U	71 U
2,4,6-Trichlorophenol	ug/kg	10 U	10 U	10 U	9.4 U	10 U	10 U	66 U
2,4-Dichlorophenol	ug/kg	23 U	23 U	23 U	21 U	22 U	23 U	45 U
2,4-Dimethylphenol	ug/kg	23 U	23 U	23 U	21 U	22 U	23 U	41 U
2,4-Dinitrophenol	ug/kg	24 U	24 U	24 U	22 U	24 U	25 U	150 U
2,4-Dinitrotoluene	ug/kg	20 U	20 U	20 U	18 U	19 U	20 U	64 U
2,6-Dinitrotoluene	ug/kg	24 U	24 U	24 U	22 U	24 U	25 U	58 U
2-Chloronaphthalene	ug/kg	0.52 U	0.52 U	0.52 U	0.47 U	0.50 U	0.53 U	14 U
2-Chlorophenol	ug/kg	9.5 U	9.4 U	9.5 U	8.6 U	9.2 U	9.6 U	10 U
2-Methylnaphthalene	ug/kg	5.5 J	7.1 J	4.5 J	11 J	35 J	50	69
2-Methylphenol	ug/kg	13 U	13 U	13 U	12 U	12 U	13 U	32 U
2-Nitroaniline	ug/kg	11 U	10 U	11 U	9.6 U	10 U	11 U	41 U
2-Nitrophenol	ug/kg	9.6 U	9.6 U	9.6 U	8.7 U	9.3 U	9.7 U	13 U
3&4-Methylphenol	ug/kg	23 U	23 U	23 U	21 U	22 U	23 U	30 U
3,3'-Dichlorobenzidine	ug/kg	21 U	21 U	21 U	19 U	20 U	21 U	44 U
3-Nitroaniline	ug/kg	19 U	18 U	19 U	17 U	18 U	19 U	51 U
4,6-Dinitro-2-methylphenol	ug/kg	11 U	11 U	11 U	9.7 U	10 U	11 U	83 U
4-Bromophenyl phenyl ether	ug/kg	15 U	15 U	15 U	14 U	15 U	15 U	14 U
4-Chloro-3-methylphenol	ug/kg	24 U	24 U	24 U	22 U	24 U	25 U	47 U
4-Chloroaniline	ug/kg	20 U	20 U	20 U	18 U	19 U	20 U	31 U
4-Chlorophenyl phenyl ether	ug/kg	15 U	15 U	15 U	14 U	15 U	15 U	14 U
4-Nitroaniline	ug/kg	30 U	30 U	30 U	27 U	29 U	31 U	62 U
4-Nitrophenol	ug/kg	20 U	20 U	20 U	18 U	19 U	20 U	97 U
Acenaphthene	ug/kg	0.88 U	0.87 U	12	4.3 J	16	0.89 U	17
Acenaphthylene	ug/kg	7.4 J	12	0.41 U	0.37 U	6.2 J	7.5 J	28
Acetophenone	ug/kg	11 U	11 U	11 U	9.7 U	10 U	11 U	11 U
Anthracene	ug/kg	8.5	11	39	5.0 J	34 J	48	39
Atrazine	ug/kg	11 U	10 U	11 U	9.6 U	10 U	11 U	37 U
Benzaldehyde	ug/kg	14 U	14 U	14 U	13 U	13 U	14 U	24 U
Benzo(a)anthracene	ug/kg	27	39	160	61	100	740	180
Benzo(a)pyrene	ug/kg	32	44	190	120	130	630	210
Benzo(b)fluoranthene	ug/kg	42	70	270	320	290	910	340
Benzo(g,h,i)perylene	ug/kg	33	40	160	170	140	340	93
Benzo(k)fluoranthene	ug/kg	15	28	80	91	91	380	130
Biphenyl (1,1-Biphenyl)	ug/kg	4.1 U	4.0 U	4.1 U	4.4 J	9.3 J	7.5 J	18 U
bis(2-Chloroethoxy)methane	ug/kg	26 U	25 U	26 U	23 U	25 U	26 U	12 U
bis(2-Chloroethyl)ether	ug/kg	2.3 U	2.3 U	2.3 U	2.1 U	2.2 U	2.3 U	12 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	22 U	22 U	38 J	20 U	21 U	22 U	110
Butyl benzylphthalate (BBP)	ug/kg	12 U	12 U	12 U	11 U	11 U	12 U	23 U
Caprolactam	ug/kg	43 U	43 U	43 U	39 U	41 U	43 U	78 U

Table 7

Summary of Analytical Results
Soil/Fill Samples - EU10
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH97-17**	**BH97-17**	**BH117-18**	**BH118-18**	**BH118-18**	**BH119-18**	**SS-32**
Sample ID:		**S-38443-120817-JC-005**	**S-38443-120817-JC-006**	**S-38443-011818-JC-050**	**S-38443-011818-JC-051**	**S-38443-011818-JC-052**	**S-38443-011818-JC-053**	**SS-38443-103118-JC-032**
Sample Date:		**12/8/2017**	**12/8/2017**	**1/18/2018**	**1/18/2018**	**1/18/2018**	**1/18/2018**	**10/31/2018**
Sample Depth:		**13-15 ft BGS**	**13-15 ft BGS**	**10-12 ft BGS**	**3-5 ft BGS**	**3-5 ft BGS**	**9-11 ft BGS**	**0.25-2.25 ft BGS**
			Duplicate			**Duplicate**		
Parameters	**Units**							
Carbazole	ug/kg	31 U	31 U	31 U	28 U	30 U	51 J	42 J
Chrysene	ug/kg	30	45	170	120	150	730	220
Dibenz(a,h)anthracene	ug/kg	0.77 U	0.76 U	35	50	40	100	31
Dibenzofuran	ug/kg	0.77 U	0.76 U	0.77 U	0.69 U	24 J	17 J	24 J
Diethyl phthalate	ug/kg	19 U	18 U	19 U	17 U	18 U	43 J	32 U
Dimethyl phthalate	ug/kg	20 U	20 U	20 U	18 U	19 U	20 U	14 U
Di-n-butylphthalate (DBP)	ug/kg	20 J	17 U	17 U	16 U	17 U	18 U	23 U
Di-n-octyl phthalate (DnOP)	ug/kg	9.2 U	9.1 U	9.2 U	8.3 U	8.9 U	9.3 U	29 U
Fluoranthene	ug/kg	48	81	380	52 J	200 J	1100	300
Fluorene	ug/kg	0.62 U	0.61 U	13	4.0 J	17	6.5 J	17
Hexachlorobenzene	ug/kg	2.4 U	2.4 U	2.4 U	2.2 U	2.4 U	2.5 U	2.9 U
Hexachlorobutadiene	ug/kg	6.5 U	6.4 U	6.5 U	5.9 U	6.3 U	6.6 U	12 U
Hexachlorocyclopentadiene	ug/kg	9.4 U	R	9.4 U	8.5 U	9.1 U	9.5 U	64 U
Hexachloroethane	ug/kg	10 U	10 U	10 U	9.5 U	10 U	11 U	9.3 U
Indeno(1,2,3-cd)pyrene	ug/kg	26	34	130	140	110	310	94
Isophorone	ug/kg	15 U	15 U	15 U	14 U	15 U	15 U	12 U
Naphthalene	ug/kg	5.6 J	8.3	7.2 J	15 J	40 J	40	57
Nitrobenzene	ug/kg	2.6 U	2.5 U	2.6 U	2.3 U	2.5 U	2.6 U	13 U
N-Nitrosodi-n-propylamine	ug/kg	7.3 U	7.3 U	7.3 U	6.6 U	7.1 U	7.4 U	11 U
N-Nitrosodiphenylamine	ug/kg	24 U	24 U	24 U	22 U	24 U	25 U	12 U
Pentachlorophenol	ug/kg	11 U	10 U	11 U	9.6 U	10 U	11 U	60 UJ
Phenanthrene	ug/kg	28	51	170	38 J	190 J	190	200
Phenol	ug/kg	8.5 U	8.4 U	8.5 U	7.7 U	8.2 U	8.6 U	8.3 U
Pyrene	ug/kg	53	84	290	45 J	150 J	830	300
Metals								
Aluminum	mg/kg	11000	9100	8000	2000	2900	6100	2400
Antimony	mg/kg	0.26 J	0.29 J	0.34 UJ	2.0 J	1.3 J	1.2 J	0.10 U
Arsenic	mg/kg	10	9.2	12	5.9	7.6	15	4.0
Barium	mg/kg	73	84	77	21	62	90	20
Beryllium	mg/kg	0.65	0.61	0.54	0.25	0.26	0.49	0.33
Cadmium	mg/kg	0.12 J	0.17 J	0.21	0.34	0.59	0.55	0.13 J
Calcium	mg/kg	14000	16000	16000	1400 J	16000 J	58000	140000
Chromium	mg/kg	15	15	17	40	53	23	6.2
Chromium III (trivalent)	mg/kg	14	15	17	39	53	23	6.2
Chromium VI (hexavalent)	mg/kg	0.88 J	0.31 J	1.4 U	0.30 J	0.27 U	1.4 U	0.25 U
Cobalt	mg/kg	7.8	8.8	6.5	3.1	4.7	6.5	2.6
Copper	mg/kg	22	22	16	75	92	53	8.1
Iron	mg/kg	21000	19000	18000	33000	47000	43000	7400
Lead	mg/kg	23	29	15	27	45	38	4.5
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-
Magnesium	mg/kg	7100	7200	8900	610 J	5700 J	18000	43000
Manganese	mg/kg	370	400	450 J	470 J	890 J	380 J	370
Mercury	mg/kg	0.073 J	0.050 J	0.027 J	0.021 U	0.054 J	0.23	0.021 U

Table 7

Summary of Analytical Results
Soil/Fill Samples - EU10
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH97-17**	**BH97-17**	**BH117-18**	**BH118-18**	**BH118-18**	**BH119-18**	**SS-32**
Sample ID:		**S-38443-120817-JC-005**	**S-38443-120817-JC-006**	**S-38443-011818-JC-050**	**S-38443-011818-JC-051**	**S-38443-011818-JC-052**	**S-38443-011818-JC-053**	**SS-38443-103118-JC-032**
Sample Date:		**12/8/2017**	**12/8/2017**	**1/18/2018**	**1/18/2018**	**1/18/2018**	**1/18/2018**	**10/31/2018**
Sample Depth:		**13-15 ft BGS**	**13-15 ft BGS**	**10-12 ft BGS**	**3-5 ft BGS**	**3-5 ft BGS**	**9-11 ft BGS**	**0.25-2.25 ft BGS**
			Duplicate			**Duplicate**		
Parameters	**Units**							
Nickel	mg/kg	19	17	15	29	41	19	7.4
Potassium	mg/kg	1300	1200	1000	140 J	330	1300	510
Selenium	mg/kg	1.2	1.2	0.74 J	0.35 J	0.44 J	2.3	0.32 J
Silver	mg/kg	0.036 J	0.043 J	0.042 J	0.085 J	0.14 J	0.093 J	0.018 U
Sodium	mg/kg	110 U	100 U	60 J	55 J	73 J	150 J	130 J
Thallium	mg/kg	0.24 J	0.25 J	0.18 J	0.089 J	0.097 J	0.18 J	0.10 J
Vanadium	mg/kg	28	26	27	4.6	8.0	19	9.4
Zinc	mg/kg	67	74	58	98	59	270	31
PCBs								
Aroclor-1016 (PCB-1016)	ug/kg	25 U	26 U	25 U	23 U	25 U	25 U	22 U
Aroclor-1221 (PCB-1221)	ug/kg	28 U	28 U	27 U	25 U	27 U	27 U	24 U
Aroclor-1232 (PCB-1232)	ug/kg	26 U	27 U	26 U	24 U	26 U	26 U	23 U
Aroclor-1242 (PCB-1242)	ug/kg	22 U	22 U	22 U	20 U	21 U	21 U	19 U
Aroclor-1248 (PCB-1248)	ug/kg	28 U	28 U	27 U	25 U	27 U	27 U	24 U
Aroclor-1254 (PCB-1254)	ug/kg	26 U	27 U	26 U	24 U	26 U	26 U	23 U
Aroclor-1260 (PCB-1260)	ug/kg	25 U	26 U	25 U	23 U	25 U	25 U	22 U
Pesticides								
4,4'-DDD	ug/kg	4.0 U	37 U	3.8 U	3.4 U	3.6 U	3.8 U	1.5 U
4,4'-DDE	ug/kg	1.4 U	14 U	1.4 U	1.2 U	1.3 UJ	1.4 U	1.5 U
4,4'-DDT	ug/kg	1.7 U	16 U	1.6 U	1.5 U	1.5 U	1.6 U	1.2 U
Aldrin	ug/kg	2.9 U	27 U	2.8 U	2.5 U	2.6 U	2.8 U	0.78 U
alpha-BHC	ug/kg	1.9 U	18 U	1.9 U	1.7 U	1.8 U	1.9 U	0.93 U
alpha-Chlordane	ug/kg	4.6 U	43 U	4.4 U	4.0 U	4.2 U	4.4 U	1.5 U
beta-BHC	ug/kg	4.7 U	44 U	4.5 U	4.1 U	4.3 U	4.5 U	1.8 U
delta-BHC	ug/kg	1.6 U	15 U	1.5 U	1.4 U	72 U	1.5 U	1.7 U
Dieldrin	ug/kg	1.1 U	10 U	1.0 U	0.94 U	0.99 U	1.0 U	1.1 U
Endosulfan I	ug/kg	1.6 U	15 U	1.5 U	1.4 U	1.4 U	1.5 U	1.2 U
Endosulfan II	ug/kg	2.2 U	20 U	2.1 U	1.9 U	2.0 U	2.1 U	1.5 U
Endosulfan sulfate	ug/kg	1.4 U	14 U	1.4 U	1.2 U	66 U	1.4 U	1.3 U
Endrin	ug/kg	1.7 U	16 U	1.6 U	1.5 U	1.5 UJ	1.6 U	1.9 U
Endrin aldehyde	ug/kg	2.2 U	20 U	2.1 U	1.9 U	99 U	2.1 U	1.3 U
Endrin ketone	ug/kg	1.3 U	12 U	1.3 U	1.1 U	1.2 U	1.3 U	0.91 U
gamma-BHC (lindane)	ug/kg	3.5 U	33 U	3.4 U	3.0 U	3.2 U	3.4 U	1.8 U
gamma-Chlordane	ug/kg	1.8 U	17 U	1.7 U	1.6 U	1.7 U	1.7 U	1.3 U
Heptachlor	ug/kg	0.94 U	8.9 U	0.90 U	0.81 U	0.86 U	0.91 U	1.6 U
Heptachlor epoxide	ug/kg	2.9 U	27 U	2.8 U	2.5 U	2.6 U	2.8 U	1.5 U
Methoxychlor	ug/kg	1.4 U	14 U	1.5 NJ	1.2 U	1.3 U	1.4 U	6.7 U
Toxaphene	ug/kg	44 U	420 U	43 U	38 U	41 U	43 U	25 U
Herbicides								
2,4,5-T	ug/kg	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/kg	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	-	-	-	-	-	-	-

Table 7

Summary of Analytical Results
Soil/Fill Samples - EU10
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH97-17**	**BH97-17**	**BH117-18**	**BH118-18**	**BH118-18**	**BH119-18**	**SS-32**
Sample ID:		**S-38443-120817-JC-005**	**S-38443-120817-JC-006**	**S-38443-011818-JC-050**	**S-38443-011818-JC-051**	**S-38443-011818-JC-052**	**S-38443-011818-JC-053**	**SS-38443-103118-JC-032**
Sample Date:		**12/8/2017**	**12/8/2017**	**1/18/2018**	**1/18/2018**	**1/18/2018**	**1/18/2018**	**10/31/2018**
Sample Depth:		**13-15 ft BGS**	**13-15 ft BGS**	**10-12 ft BGS**	**3-5 ft BGS**	**3-5 ft BGS**	**9-11 ft BGS**	**0.25-2.25 ft BGS**
			Duplicate			**Duplicate**		
Parameters	**Units**							
Dioxin/Furans								
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	11 J	11	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	160	150	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	13	11	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	14	14	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	0.45 J	0.51 J	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	0.82 J	0.87 J	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	0.22 J	0.23 J	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	1.2 J	1.2 J	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	0.91 J	0.95 J	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	0.24 U	0.15 U	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	0.68 J	0.60 J	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	0.21 U	0.17 U	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	0.14 U	0.32 J	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	0.45 J	0.44 J	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	0.19 U	0.41 J	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	0.82 J	1.2	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	0.068 U	0.18 J	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	30 J	28 J	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	27 J	28 J	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	30 J	25 J	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	7.0 J	6.9 J	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	54 J	40 J	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	18 J	20 J	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	64 J	49 J	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	1.9 J	1.9 J	-	-	-	-	-
Asbestos								
Asbestos	%	ND	-	ND	ND	-	ND	-
Chrysotile asbestos	%	-	-	-	-	-	-	-
General Chemistry								
Cyanide (total)	mg/kg	0.27 U	0.24 U	0.11 J	0.077 J	0.15 J	7.6	0.20 U

Notes
< - Less than reported value.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 7

Summary of Analytical Results
Soil/Fill Samples - EU10
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-78**	**SS-79**	**SS-80**	**SS-81**	**SS-82**	**SS-83**	**SS-84**
Sample ID:		**SS-38443-103118-JC-078**	**SS-38443-103118-JC-079**	**SS-38443-103118-JC-080**	**SS-38443-103118-JC-081**	**SS-38443-103118-JC-082**	**SS-38443-103118-JC-083**	**SS-38443-103118-JC-084**
Sample Date:		**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.33-2.33 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/kg	0.74 U	0.82 U	0.88 U	0.81 U	0.79 U	0.99 U	0.74 U
1,1,2,2-Tetrachloroethane	ug/kg	1.3 U	1.4 U	R	1.4 U	1.4 U	R	1.3 U
1,1,2-Trichloroethane	ug/kg	1.0 U	1.1 U	1.2 U	1.1 U	1.1 U	R	1.0 U
1,1-Dichloroethane	ug/kg	0.63 U	0.69 U	0.75 U	0.68 U	0.66 U	0.84 U	0.63 U
1,1-Dichloroethene	ug/kg	0.82 U	0.90 U	0.97 U	0.89 U	0.86 U	1.1 U	0.82 U
1,2,4-Trichlorobenzene	ug/kg	0.52 U	0.57 U	R	0.56 U	0.55 U	R	0.52 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	3.3 U	3.6 U	R	3.6 U	3.5 U	R	3.3 U
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	0.70 U	0.77 U	0.83 U	0.76 U	0.74 U	R	0.70 U
1,2-Dichlorobenzene	ug/kg	1.0 U	1.1 U	R	1.1 U	1.1 U	R	1.0 U
1,2-Dichloroethane	ug/kg	0.70 U	0.77 U	0.83 U	0.76 U	0.74 U	0.93 U	0.70 U
1,2-Dichloropropane	ug/kg	0.77 U	0.85 U	0.92 U	0.84 U	0.81 U	1.0 U	0.77 U
1,3-Dichlorobenzene	ug/kg	0.74 U	0.81 U	R	0.81 U	0.78 U	R	0.74 U
1,4-Dichlorobenzene	ug/kg	0.80 U	0.88 U	R	0.87 U	0.84 U	R	0.80 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	15 J	3.5 U	3.8 U	3.5 U	19	4.3 U	13 J
2-Hexanone	ug/kg	3.7 U	4.1 U	4.4 U	4.0 U	3.9 U	R	3.7 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	3.4 U	3.7 U	4.0 U	3.7 U	3.6 U	R	3.4 U
Acetone	ug/kg	68	21 U	23 J	21 U	100	25 J	100
Benzene	ug/kg	0.63 U	0.70 U	0.75 U	0.69 U	0.67 U	0.84 U	0.63 U
Bromodichloromethane	ug/kg	0.61 U	0.68 U	0.73 U	0.67 U	0.65 U	0.82 U	0.61 U
Bromoform	ug/kg	2.2 U	2.4 U	2.6 U	2.4 U	2.3 U	R	2.2 U
Bromomethane (Methyl bromide)	ug/kg	0.89 U	0.99 U	1.1 U	0.97 U	0.95 U	1.2 U	0.89 U
Carbon disulfide	ug/kg	1.1 U	1.2 U	1.3 U	1.1 U	1.1 U	1.4 U	1.0 U
Carbon tetrachloride	ug/kg	2.9 U	3.2 U	3.5 U	3.2 U	3.1 U	3.9 U	2.9 U
Chlorobenzene	ug/kg	0.83 U	0.91 U	0.99 U	0.90 U	0.88 U	R	0.83 U
Chloroethane	ug/kg	1.1 U	1.2 U	1.3 U	1.2 U	1.2 U	1.5 U	1.1 U
Chloroform (Trichloromethane)	ug/kg	0.71 U	0.79 U	0.85 U	0.78 U	0.75 U	0.95 U	0.71 U
Chloromethane (Methyl chloride)	ug/kg	0.94 U	1.0 U	1.1 U	1.0 U	1.0 U	1.3 U	0.94 U
cis-1,2-Dichloroethene	ug/kg	0.59 U	0.65 U	0.70 U	0.64 U	0.62 U	0.93 J	0.59 U
cis-1,3-Dichloropropene	ug/kg	1.3 U	1.4 U	1.5 U	1.4 U	1.4 U	1.7 U	1.3 U
Cyclohexane	ug/kg	1.2 U	1.4 U	1.5 U	1.4 U	1.3 U	1.7 U	1.2 U
Dibromochloromethane	ug/kg	2.5 U	2.8 U	3.0 U	2.7 U	2.7 U	R	2.5 U
Dichlorodifluoromethane (CFC-12)	ug/kg	0.85 UJ	0.94 U	1.0 UJ	0.93 U	0.90 U	1.1 UJ	0.85 U
Ethylbenzene	ug/kg	0.95 U	1.0 U	1.1 U	1.0 U	1.0 U	R	0.95 U
Isopropyl benzene	ug/kg	0.75 U	0.83 U	0.89 U	0.82 U	0.80 U	R	0.75 U
Methyl acetate	ug/kg	3.1 UJ	3.4 U	3.7 UJ	3.4 U	3.3 U	4.1 UJ	3.1 U
Methyl cyclohexane	ug/kg	1.1 U	1.2 U	1.3 U	1.2 U	1.2 U	1.5 U	1.1 U
Methyl tert butyl ether (MTBE)	ug/kg	0.74 U	0.82 U	0.88 U	0.81 U	0.79 U	0.99 U	0.74 U
Methylene chloride	ug/kg	11 U	12 U	13 U	12 U	11 U	14 U	11 U
Styrene	ug/kg	1.0 U	1.2 U	1.2 U	1.1 U	1.1 U	R	1.0 U
Tetrachloroethene	ug/kg	0.66 U	0.73 U	0.79 U	0.72 U	0.70 U	R	0.66 U
Toluene	ug/kg	0.70 U	0.77 U	0.83 U	0.76 U	0.74 U	R	1.7 J
trans-1,2-Dichloroethene	ug/kg	0.42 U	0.46 U	0.50 U	0.46 U	0.45 U	0.56 U	0.42 U
trans-1,3-Dichloropropene	ug/kg	0.93 U	1.0 U	1.1 U	1.0 U	0.99 U	R	0.93 U
Trichloroethene	ug/kg	0.57 U	0.63 U	0.68 U	0.62 U	0.61 U	0.76 U	0.57 U
Trichlorofluoromethane (CFC-11)	ug/kg	0.97 U	1.1 U	1.2 U	1.1 U	1.0 U	1.3 U	0.97 U

Table 7

Summary of Analytical Results
Soil/Fill Samples - EU10
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-78**	**SS-79**	**SS-80**	**SS-81**	**SS-82**	**SS-83**	**SS-84**
Sample ID:		**SS-38443-103118-JC-078**	**SS-38443-103118-JC-079**	**SS-38443-103118-JC-080**	**SS-38443-103118-JC-081**	**SS-38443-103118-JC-082**	**SS-38443-103118-JC-083**	**SS-38443-103118-JC-084**
Sample Date:		**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.33-2.33 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**							
Trifluorotrichloroethane (CFC-113)	ug/kg	1.2 U	1.3 U	1.4 U	1.3 U	1.2 U	1.5 U	1.2 U
Vinyl chloride	ug/kg	0.76 U	0.84 U	0.90 U	0.83 U	0.80 U	1.0 U	0.76 U
Xylenes (total)	ug/kg	1.4 U	1.6 U	1.7 U	1.6 U	1.5 U	R	1.5 J
Semi-Volatiles								
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	11 U	12 U	11 U	11 U	11 U	22 U	11 U
2,4,5-Trichlorophenol	ug/kg	78 U	85 U	75 U	78 U	77 U	150 U	78 U
2,4,6-Trichlorophenol	ug/kg	73 U	79 U	70 U	73 U	71 U	140 U	72 U
2,4-Dichlorophenol	ug/kg	50 U	54 U	48 U	50 U	49 U	95 U	49 U
2,4-Dimethylphenol	ug/kg	45 U	49 U	44 U	45 U	45 U	87 U	45 U
2,4-Dinitrophenol	ug/kg	160 U	170 U	150 U	160 U	160 U	310 U	160 U
2,4-Dinitrotoluene	ug/kg	70 U	76 U	68 U	70 U	69 U	130 U	70 U
2,6-Dinitrotoluene	ug/kg	64 U	69 U	61 U	64 U	62 U	120 U	63 U
2-Chloronaphthalene	ug/kg	16 U	17 U	15 U	16 U	16 U	30 U	16 U
2-Chlorophenol	ug/kg	11 U	12 U	11 U	11 U	11 U	22 U	11 U
2-Methylnaphthalene	ug/kg	460	710	46	770	26	110	74
2-Methylphenol	ug/kg	35 U	84 J	34 U	35 U	34 U	67 U	35 U
2-Nitroaniline	ug/kg	45 U	49 U	44 U	45 U	45 U	87 U	45 U
2-Nitrophenol	ug/kg	15 U	16 U	14 U	15 U	14 U	28 U	15 U
3&4-Methylphenol	ug/kg	33 U	210 J	32 U	33 U	32 U	63 U	33 U
3,3'-Dichlorobenzidine	ug/kg	49 U	53 U	47 U	49 U	48 U	93 U	48 U
3-Nitroaniline	ug/kg	56 U	60 U	53 U	56 U	55 U	110 U	55 U
4,6-Dinitro-2-methylphenol	ug/kg	91 U	98 U	87 U	91 U	89 U	170 U	90 U
4-Bromophenyl phenyl ether	ug/kg	16 U	17 U	15 U	16 U	16 U	30 U	16 U
4-Chloro-3-methylphenol	ug/kg	51 U	55 U	49 U	51 U	50 U	98 U	51 U
4-Chloroaniline	ug/kg	34 U	37 U	33 U	34 U	33 U	65 U	34 U
4-Chlorophenyl phenyl ether	ug/kg	16 U	17 U	15 U	16 U	16 U	30 U	16 U
4-Nitroaniline	ug/kg	68 U	74 U	65 U	68 U	67 U	130 U	67 U
4-Nitrophenol	ug/kg	110 U	120 U	100 U	110 U	100 U	200 U	110 U
Acenaphthene	ug/kg	31	3.5 U	3.1 U	26	3.2 U	54	3.2 U
Acenaphthylene	ug/kg	51	28	34	4.6 U	4.5 U	140	13 J
Acetophenone	ug/kg	12 U	79 J	12 U	64 J	12 U	24 U	12 U
Anthracene	ug/kg	65	110	38	57	8.8 J	270	14 J
Atrazine	ug/kg	41 U	44 U	39 U	41 U	40 U	78 U	40 U
Benzaldehyde	ug/kg	26 U	110 J	25 U	69 J	26 U	50 U	26 U
Benzo(a)anthracene	ug/kg	200	520	160	180	24	970	66
Benzo(a)pyrene	ug/kg	180	270	150	170	28	840	73
Benzo(b)fluoranthene	ug/kg	270	520	250	310	61	1300	120
Benzo(g,h,i)perylene	ug/kg	150	300	130	120	33	530	77
Benzo(k)fluoranthene	ug/kg	53	110	95	80	21	450	33
Biphenyl (1,1-Biphenyl)	ug/kg	26 J	110	19 U	59	19 U	37 U	19 U
bis(2-Chloroethoxy)methane	ug/kg	14 U	15 U	13 U	14 U	13 U	26 U	13 U
bis(2-Chloroethyl)ether	ug/kg	14 U	15 U	13 U	14 U	13 U	26 U	13 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	58 U	63 U	56 U	73 J	57 U	110 U	57 U
Butyl benzylphthalate (BBP)	ug/kg	25 U	27 U	24 U	25 U	24 U	48 U	25 U
Caprolactam	ug/kg	85 U	92 U	82 U	85 U	83 U	160 U	84 U

Table 7

Summary of Analytical Results
Soil/Fill Samples - EU10
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-78**	**SS-79**	**SS-80**	**SS-81**	**SS-82**	**SS-83**	**SS-84**
Sample ID:		**SS-38443-103118-JC-078**	**SS-38443-103118-JC-079**	**SS-38443-103118-JC-080**	**SS-38443-103118-JC-081**	**SS-38443-103118-JC-082**	**SS-38443-103118-JC-083**	**SS-38443-103118-JC-084**
Sample Date:		**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.33-2.33 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**							
Carbazole	ug/kg	33 J	23 U	21 U	44 J	21 U	280	21 U
Chrysene	ug/kg	210	790	170	220	38	870	82
Dibenz(a,h)anthracene	ug/kg	34	88	41	26	11 J	150	17
Dibenzofuran	ug/kg	88	270	18 J	170	14 U	63 J	17 J
Diethyl phthalate	ug/kg	35 U	38 U	34 U	35 U	34 U	67 U	35 U
Dimethyl phthalate	ug/kg	16 U	17 U	15 U	16 U	16 U	30 U	16 U
Di-n-butylphthalate (DBP)	ug/kg	25 U	27 U	24 U	25 U	24 U	48 U	25 U
Di-n-octyl phthalate (DnOP)	ug/kg	32 U	34 U	30 U	32 U	31 U	61 U	31 U
Fluoranthene	ug/kg	370	310	300	300	41	2100	130
Fluorene	ug/kg	42	3.4 U	12 J	33	3.0 U	120	3.1 U
Hexachlorobenzene	ug/kg	3.2 U	3.5 U	3.1 U	3.2 U	3.2 U	6.2 U	3.2 U
Hexachlorobutadiene	ug/kg	14 U	15 U	13 U	14 U	13 U	26 U	13 U
Hexachlorocyclopentadiene	ug/kg	70 U	76 U	68 U	70 U	69 U	130 U	70 U
Hexachloroethane	ug/kg	10 U	11 U	9.8 U	10 U	10 U	20 U	10 U
Indeno(1,2,3-cd)pyrene	ug/kg	120	160	110	63	32	490	62
Isophorone	ug/kg	14 U	15 U	13 U	14 U	13 U	26 U	13 U
Naphthalene	ug/kg	190	390	33	460	25	75	45
Nitrobenzene	ug/kg	15 U	16 U	14 U	15 U	14 U	28 U	15 U
N-Nitrosodi-n-propylamine	ug/kg	12 U	14 U	12 U	13 U	12 U	24 U	12 U
N-Nitrosodiphenylamine	ug/kg	14 U	15 U	13 U	14 U	13 U	26 U	13 U
Pentachlorophenol	ug/kg	66 U	71 U	63 U	66 UJ	65 U	130 U	65 U
Phenanthrene	ug/kg	280	1000	170	510	46	1300	86
Phenol	ug/kg	9.1 U	180	8.7 U	12 J	8.9 U	17 U	9.0 U
Pyrene	ug/kg	320	320	250	340	30	1500	120
Metals								
Aluminum	mg/kg	9600	12000	4600	6000	3000	3800	11000
Antimony	mg/kg	0.43	0.57	0.88	0.29 J	0.82	0.33 J	0.25 J
Arsenic	mg/kg	8.2	27	14	6.4	6.8	6.0	8.6
Barium	mg/kg	130	690	120	98	93	71	93
Beryllium	mg/kg	0.73	2.8	1.2	0.65	0.35	0.41	0.68
Cadmium	mg/kg	0.46	0.53	0.35	0.94	0.44	0.31	0.20 J
Calcium	mg/kg	43000	38000	73000	42000	87000	96000	18000
Chromium	mg/kg	16	14	15	16	80	9.6	15
Chromium III (trivalent)	mg/kg	16	14	15	16	80	9.6	15
Chromium VI (hexavalent)	mg/kg	0.27 U	0.30 U	0.42 J	0.28 U	0.27 U	0.26 U	0.44 J
Cobalt	mg/kg	6.3	8.9	6.3	5.5	4.4	3.2	7.7
Copper	mg/kg	30	57	90	23	66	23	20
Iron	mg/kg	15000	13000	8800	12000	27000	8100	18000
Lead	mg/kg	60	140	100	54	40	70	35
Lead - coarse fraction	mg/kg	-	52 J	-	44 J	-	-	-
Lead - fine fraction	mg/kg	-	99	-	74	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	64	-	48	-	-	-
Magnesium	mg/kg	15000	5700	25000	14000	22000	38000	7300
Manganese	mg/kg	490	220	240	210	550	250	350
Mercury	mg/kg	0.11 J	0.27	0.092 J	0.067 J	0.031 J	0.024 J	0.042 J

Table 7

Summary of Analytical Results
Soil/Fill Samples - EU10
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-78**	**SS-79**	**SS-80**	**SS-81**	**SS-82**	**SS-83**	**SS-84**
Sample ID:		**SS-38443-103118-JC-078**	**SS-38443-103118-JC-079**	**SS-38443-103118-JC-080**	**SS-38443-103118-JC-081**	**SS-38443-103118-JC-082**	**SS-38443-103118-JC-083**	**SS-38443-103118-JC-084**
Sample Date:		**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.33-2.33 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**							
Nickel	mg/kg	14	19	14	14	31	8.6	17
Potassium	mg/kg	1000	730	660	750	590	650	1000
Selenium	mg/kg	0.72 J	1.1	0.96 J	0.76 J	0.37 J	0.69 J	0.82 J
Silver	mg/kg	0.18 J	0.13 J	0.075 J	0.23	0.091 J	0.060 J	0.053 J
Sodium	mg/kg	97 J	640	170 J	160 J	100 J	130 J	91 J
Thallium	mg/kg	0.25	0.27	0.38	0.19	0.10 J	0.13 J	0.28
Vanadium	mg/kg	26	36	23	19	14	17	28
Zinc	mg/kg	100	120	180	100	39	73	67
PCBs								
Aroclor-1016 (PCB-1016)	ug/kg	25 U	27 U	23 U	25 U	24 U	23 U	25 U
Aroclor-1221 (PCB-1221)	ug/kg	27 U	29 U	25 U	27 U	26 U	26 U	27 U
Aroclor-1232 (PCB-1232)	ug/kg	26 U	28 U	24 U	26 U	25 U	24 U	26 U
Aroclor-1242 (PCB-1242)	ug/kg	21 U	23 U	20 U	22 U	21 U	20 U	21 U
Aroclor-1248 (PCB-1248)	ug/kg	27 U	29 U	25 U	27 U	26 U	26 U	27 U
Aroclor-1254 (PCB-1254)	ug/kg	41 J	28 U	24 U	550	25 U	40 J	760 J
Aroclor-1260 (PCB-1260)	ug/kg	25 U	27 U	23 U	25 U	24 U	23 U	25 U
Pesticides								
4,4'-DDD	ug/kg	4.3 J	18 U	8.0 U	1.7 U	1.6 U	1.6 U	8.2 U
4,4'-DDE	ug/kg	5.2 J	18 U	8.2 U	1.7 U	1.7 U	1.6 U	30
4,4'-DDT	ug/kg	2.9 J	14 U	6.1 U	6.6 J	1.2 U	1.2 U	13 J
Aldrin	ug/kg	0.86 U	9.4 U	4.2 U	0.87 U	0.84 U	0.82 U	4.3 U
alpha-BHC	ug/kg	1.9 J	11 U	13 J	1.0 U	1.0 U	0.97 U	5.1 U
alpha-Chlordane	ug/kg	1.7 U	18 U	8.1 U	1.7 J	1.6 U	1.6 U	8.4 U
beta-BHC	ug/kg	2.2 J	21 U	9.4 U	7.3 J	5.1 J	1.8 U	9.6 U
delta-BHC	ug/kg	1.9 U	21 U	9.2 U	1.9 U	1.9 U	1.8 U	9.4 U
Dieldrin	ug/kg	3.3 J	13 U	6.0 U	37 J	1.2 U	1.2 U	6.1 U
Endosulfan I	ug/kg	1.3 U	15 U	6.5 U	1.4 U	1.3 U	1.3 U	6.7 U
Endosulfan II	ug/kg	1.7 U	18 U	8.0 U	1.7 U	1.6 U	1.6 U	8.2 U
Endosulfan sulfate	ug/kg	1.4 U	16 U	6.9 U	1.4 U	1.4 U	1.4 U	7.1 U
Endrin	ug/kg	2.1 U	23 U	10 U	2.2 U	2.1 U	2.0 U	11 U
Endrin aldehyde	ug/kg	1.5 U	16 U	7.1 U	2.4 J	1.4 U	1.4 U	7.3 U
Endrin ketone	ug/kg	0.99 U	11 U	4.8 U	1.0 U	0.98 U	0.95 U	5.0 U
gamma-BHC (lindane)	ug/kg	2.0 U	22 U	9.7 U	2.0 U	2.0 U	1.9 U	10 U
gamma-Chlordane	ug/kg	1.8 J	15 U	6.7 U	1.8 J	1.3 U	1.3 U	6.9 U
Heptachlor	ug/kg	1.8 U	19 U	8.6 U	1.8 U	1.7 U	1.7 U	8.8 U
Heptachlor epoxide	ug/kg	1.6 U	18 U	7.8 U	4.2 J	1.6 U	1.5 U	8.0 U
Methoxychlor	ug/kg	7.3 U	80 U	36 U	7.4 U	7.2 U	7.0 U	37 U
Toxaphene	ug/kg	28 U	310 U	140 U	28 U	27 U	27 U	140 U
Herbicides								
2,4,5-T	ug/kg	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/kg	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	-	-	-	-	-	-	-

Table 7

Summary of Analytical Results
Soil/Fill Samples - EU10
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-78**	**SS-79**	**SS-80**	**SS-81**	**SS-82**	**SS-83**	**SS-84**
Sample ID:		**SS-38443-103118-JC-078**	**SS-38443-103118-JC-079**	**SS-38443-103118-JC-080**	**SS-38443-103118-JC-081**	**SS-38443-103118-JC-082**	**SS-38443-103118-JC-083**	**SS-38443-103118-JC-084**
Sample Date:		**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.33-2.33 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**							
Dioxin/Furans								
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Asbestos								
Asbestos	%	-	-	-	-	-	-	-
Chrysotile asbestos	%	-	-	-	-	-	-	-
General Chemistry								
Cyanide (total)	mg/kg	0.23 U	0.30 J	0.20 U	0.23 J	0.35 J	0.21 U	0.23 U

Notes
< - Less than reported value.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 7

Summary of Analytical Results
Soil/Fill Samples - EU10
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-85**	**SS-163-AS**	**SS-164-AS**
Sample ID:		**SS-38443-103118-JC-085**	**SS-38443-103118-JC-163**	**SS-38443-103118-JC-164**
Sample Date:		**10/31/2018**	**10/31/2018**	**10/31/2018**
Sample Depth:		**0.25-2.25 ft BGS**	**0.33-0.83 ft BGS**	**0.25-0.75 ft BGS**
Parameters	**Units**			
Volatiles				
1,1,1-Trichloroethane	ug/kg	-	-	-
1,1,2,2-Tetrachloroethane	ug/kg	-	-	-
1,1,2-Trichloroethane	ug/kg	-	-	-
1,1-Dichloroethane	ug/kg	-	-	-
1,1-Dichloroethene	ug/kg	-	-	-
1,2,4-Trichlorobenzene	ug/kg	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	-	-	-
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	-	-	-
1,2-Dichlorobenzene	ug/kg	-	-	-
1,2-Dichloroethane	ug/kg	-	-	-
1,2-Dichloropropane	ug/kg	-	-	-
1,3-Dichlorobenzene	ug/kg	-	-	-
1,4-Dichlorobenzene	ug/kg	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	-	-	-
2-Hexanone	ug/kg	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	-	-	-
Acetone	ug/kg	-	-	-
Benzene	ug/kg	-	-	-
Bromodichloromethane	ug/kg	-	-	-
Bromoform	ug/kg	-	-	-
Bromomethane (Methyl bromide)	ug/kg	-	-	-
Carbon disulfide	ug/kg	-	-	-
Carbon tetrachloride	ug/kg	-	-	-
Chlorobenzene	ug/kg	-	-	-
Chloroethane	ug/kg	-	-	-
Chloroform (Trichloromethane)	ug/kg	-	-	-
Chloromethane (Methyl chloride)	ug/kg	-	-	-
cis-1,2-Dichloroethene	ug/kg	-	-	-
cis-1,3-Dichloropropene	ug/kg	-	-	-
Cyclohexane	ug/kg	-	-	-
Dibromochloromethane	ug/kg	-	-	-
Dichlorodifluoromethane (CFC-12)	ug/kg	-	-	-
Ethylbenzene	ug/kg	-	-	-
Isopropyl benzene	ug/kg	-	-	-
Methyl acetate	ug/kg	-	-	-
Methyl cyclohexane	ug/kg	-	-	-
Methyl tert butyl ether (MTBE)	ug/kg	-	-	-
Methylene chloride	ug/kg	-	-	-
Styrene	ug/kg	-	-	-
Tetrachloroethene	ug/kg	-	-	-
Toluene	ug/kg	-	-	-
trans-1,2-Dichloroethene	ug/kg	-	-	-
trans-1,3-Dichloropropene	ug/kg	-	-	-
Trichloroethene	ug/kg	-	-	-
Trichlorofluoromethane (CFC-11)	ug/kg	-	-	-

Table 7

Summary of Analytical Results
Soil/Fill Samples - EU10
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-85**	**SS-163-AS**	**SS-164-AS**
Sample ID:		**SS-38443-103118-JC-085**	**SS-38443-103118-JC-163**	**SS-38443-103118-JC-164**
Sample Date:		**10/31/2018**	**10/31/2018**	**10/31/2018**
Sample Depth:		**0.25-2.25 ft BGS**	**0.33-0.83 ft BGS**	**0.25-0.75 ft BGS**
Parameters	**Units**			
Trifluorotrichloroethane (CFC-113)	ug/kg	-	-	-
Vinyl chloride	ug/kg	-	-	-
Xylenes (total)	ug/kg	-	-	-
Semi-Volatiles				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	-	-	-
2,4,5-Trichlorophenol	ug/kg	-	-	-
2,4,6-Trichlorophenol	ug/kg	-	-	-
2,4-Dichlorophenol	ug/kg	-	-	-
2,4-Dimethylphenol	ug/kg	-	-	-
2,4-Dinitrophenol	ug/kg	-	-	-
2,4-Dinitrotoluene	ug/kg	-	-	-
2,6-Dinitrotoluene	ug/kg	-	-	-
2-Chloronaphthalene	ug/kg	-	-	-
2-Chlorophenol	ug/kg	-	-	-
2-Methylnaphthalene	ug/kg	-	-	-
2-Methylphenol	ug/kg	-	-	-
2-Nitroaniline	ug/kg	-	-	-
2-Nitrophenol	ug/kg	-	-	-
3&4-Methylphenol	ug/kg	-	-	-
3,3'-Dichlorobenzidine	ug/kg	-	-	-
3-Nitroaniline	ug/kg	-	-	-
4,6-Dinitro-2-methylphenol	ug/kg	-	-	-
4-Bromophenyl phenyl ether	ug/kg	-	-	-
4-Chloro-3-methylphenol	ug/kg	-	-	-
4-Chloroaniline	ug/kg	-	-	-
4-Chlorophenyl phenyl ether	ug/kg	-	-	-
4-Nitroaniline	ug/kg	-	-	-
4-Nitrophenol	ug/kg	-	-	-
Acenaphthene	ug/kg	-	-	-
Acenaphthylene	ug/kg	-	-	-
Acetophenone	ug/kg	-	-	-
Anthracene	ug/kg	-	-	-
Atrazine	ug/kg	-	-	-
Benzaldehyde	ug/kg	-	-	-
Benzo(a)anthracene	ug/kg	-	-	-
Benzo(a)pyrene	ug/kg	-	-	-
Benzo(b)fluoranthene	ug/kg	-	-	-
Benzo(g,h,i)perylene	ug/kg	-	-	-
Benzo(k)fluoranthene	ug/kg	-	-	-
Biphenyl (1,1-Biphenyl)	ug/kg	-	-	-
bis(2-Chloroethoxy)methane	ug/kg	-	-	-
bis(2-Chloroethyl)ether	ug/kg	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	-	-	-
Butyl benzylphthalate (BBP)	ug/kg	-	-	-
Caprolactam	ug/kg	-	-	-

Table 7

Summary of Analytical Results
Soil/Fill Samples - EU10
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-85**	**SS-163-AS**	**SS-164-AS**
Sample ID:		**SS-38443-103118-JC-085**	**SS-38443-103118-JC-163**	**SS-38443-103118-JC-164**
Sample Date:		**10/31/2018**	**10/31/2018**	**10/31/2018**
Sample Depth:		**0.25-2.25 ft BGS**	**0.33-0.83 ft BGS**	**0.25-0.75 ft BGS**
Parameters	**Units**			
Carbazole	ug/kg	-	-	-
Chrysene	ug/kg	-	-	-
Dibenz(a,h)anthracene	ug/kg	-	-	-
Dibenzofuran	ug/kg	-	-	-
Diethyl phthalate	ug/kg	-	-	-
Dimethyl phthalate	ug/kg	-	-	-
Di-n-butylphthalate (DBP)	ug/kg	-	-	-
Di-n-octyl phthalate (DnOP)	ug/kg	-	-	-
Fluoranthene	ug/kg	-	-	-
Fluorene	ug/kg	-	-	-
Hexachlorobenzene	ug/kg	-	-	-
Hexachlorobutadiene	ug/kg	-	-	-
Hexachlorocyclopentadiene	ug/kg	-	-	-
Hexachloroethane	ug/kg	-	-	-
Indeno(1,2,3-cd)pyrene	ug/kg	-	-	-
Isophorone	ug/kg	-	-	-
Naphthalene	ug/kg	-	-	-
Nitrobenzene	ug/kg	-	-	-
N-Nitrosodi-n-propylamine	ug/kg	-	-	-
N-Nitrosodiphenylamine	ug/kg	-	-	-
Pentachlorophenol	ug/kg	-	-	-
Phenanthrene	ug/kg	-	-	-
Phenol	ug/kg	-	-	-
Pyrene	ug/kg	-	-	-
Metals				
Aluminum	mg/kg	-	-	-
Antimony	mg/kg	-	-	-
Arsenic	mg/kg	-	-	-
Barium	mg/kg	-	-	-
Beryllium	mg/kg	-	-	-
Cadmium	mg/kg	-	-	-
Calcium	mg/kg	-	-	-
Chromium	mg/kg	-	-	-
Chromium III (trivalent)	mg/kg	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-
Cobalt	mg/kg	-	-	-
Copper	mg/kg	-	-	-
Iron	mg/kg	-	-	-
Lead	mg/kg	-	-	-
Lead - coarse fraction	mg/kg	-	-	-
Lead - fine fraction	mg/kg	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-
Magnesium	mg/kg	-	-	-
Manganese	mg/kg	-	-	-
Mercury	mg/kg	-	-	-

Table 7

Summary of Analytical Results
Soil/Fill Samples - EU10
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-85**	**SS-163-AS**	**SS-164-AS**
Sample ID:		**SS-38443-103118-JC-085**	**SS-38443-103118-JC-163**	**SS-38443-103118-JC-164**
Sample Date:		**10/31/2018**	**10/31/2018**	**10/31/2018**
Sample Depth:		**0.25-2.25 ft BGS**	**0.33-0.83 ft BGS**	**0.25-0.75 ft BGS**
Parameters	**Units**			
Nickel	mg/kg	-	-	-
Potassium	mg/kg	-	-	-
Selenium	mg/kg	-	-	-
Silver	mg/kg	-	-	-
Sodium	mg/kg	-	-	-
Thallium	mg/kg	-	-	-
Vanadium	mg/kg	-	-	-
Zinc	mg/kg	-	-	-
PCBs				
Aroclor-1016 (PCB-1016)	ug/kg	-	-	-
Aroclor-1221 (PCB-1221)	ug/kg	-	-	-
Aroclor-1232 (PCB-1232)	ug/kg	-	-	-
Aroclor-1242 (PCB-1242)	ug/kg	-	-	-
Aroclor-1248 (PCB-1248)	ug/kg	-	-	-
Aroclor-1254 (PCB-1254)	ug/kg	-	-	-
Aroclor-1260 (PCB-1260)	ug/kg	-	-	-
Pesticides				
4,4'-DDD	ug/kg	-	-	-
4,4'-DDE	ug/kg	-	-	-
4,4'-DDT	ug/kg	-	-	-
Aldrin	ug/kg	-	-	-
alpha-BHC	ug/kg	-	-	-
alpha-Chlordane	ug/kg	-	-	-
beta-BHC	ug/kg	-	-	-
delta-BHC	ug/kg	-	-	-
Dieldrin	ug/kg	-	-	-
Endosulfan I	ug/kg	-	-	-
Endosulfan II	ug/kg	-	-	-
Endosulfan sulfate	ug/kg	-	-	-
Endrin	ug/kg	-	-	-
Endrin aldehyde	ug/kg	-	-	-
Endrin ketone	ug/kg	-	-	-
gamma-BHC (lindane)	ug/kg	-	-	-
gamma-Chlordane	ug/kg	-	-	-
Heptachlor	ug/kg	-	-	-
Heptachlor epoxide	ug/kg	-	-	-
Methoxychlor	ug/kg	-	-	-
Toxaphene	ug/kg	-	-	-
Herbicides				
2,4,5-T	ug/kg	14 U	-	-
2,4,5-TP (Silvex)	ug/kg	15 U	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	54 U	-	-

Table 7

Summary of Analytical Results
Soil/Fill Samples - EU10
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-85**	**SS-163-AS**	**SS-164-AS**
Sample ID:		**SS-38443-103118-JC-085**	**SS-38443-103118-JC-163**	**SS-38443-103118-JC-164**
Sample Date:		**10/31/2018**	**10/31/2018**	**10/31/2018**
Sample Depth:		**0.25-2.25 ft BGS**	**0.33-0.83 ft BGS**	**0.25-0.75 ft BGS**
Parameters	**Units**			
Dioxin/Furans				
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-
Asbestos				
Asbestos	%	-	-	ND
Chrysotile asbestos	%	-	0.25 <	-
General Chemistry				
Cyanide (total)	mg/kg	-	-	-

Notes
< - Less than reported value.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 8

Summary of Analytical Results
Soil/Fill Samples - EU11
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH89-13**	**BH114-18**	**BH114-18**	**BH115-18**	**BH116-18**	**BH175-17**	**BH175-17**
Sample ID:		**S-38443-062413-SM-029**	**S-38443-011118-JC-040**	**S-38443-011118-JC-041**	**S-38443-011118-JC-039**	**S-38443-011118-JC-038**	**S-38443-121817-JC-008**	**S-38443-121817-JC-009**
Sample Date:		**6/24/2013**	**1/11/2018**	**1/11/2018**	**1/11/2018**	**1/11/2018**	**12/18/2017**	**12/18/2017**
Sample Depth:		**18-20 ft BGS**	**3-5 ft BGS**	**3-5 ft BGS**	**3-5 ft BGS**	**11-13 ft BGS**	**13-15 ft BGS**	**15.5-17.5 ft BGS**
				Duplicate				
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/kg	5.3 U	0.21 U	0.20 U	0.34 U	0.22 U	-	0.23 U
1,1,2,2-Tetrachloroethane	ug/kg	5.3 U	0.24 U	0.22 U	0.39 U	0.25 U	-	R
1,1,2-Trichloroethane	ug/kg	5.3 U	0.36 U	0.34 U	0.58 U	0.37 U	-	0.40 U
1,1-Dichloroethane	ug/kg	5.3 U	0.30 U	0.29 U	0.49 U	0.31 U	-	0.34 U
1,1-Dichloroethene	ug/kg	5.3 U	0.50 U	0.47 U	0.80 U	0.51 U	-	0.55 U
1,2,4-Trichlorobenzene	ug/kg	5.3 U	0.22 U	0.21 U	0.36 U	0.23 U	-	R
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	11 U	0.62 U	0.59 U	1.0 U	0.64 U	-	R
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	5.3 U	0.32 U	0.30 U	0.52 U	0.33 U	-	0.36 U
1,2-Dichlorobenzene	ug/kg	5.3 U	0.20 U	0.19 U	0.33 U	0.21 U	-	R
1,2-Dichloroethane	ug/kg	5.3 U	0.27 U	0.25 U	0.43 U	0.27 U	-	0.30 U
1,2-Dichloropropane	ug/kg	5.3 U	0.28 U	0.27 U	0.46 U	0.29 U	-	0.32 U
1,3-Dichlorobenzene	ug/kg	5.3 U	0.27 U	0.25 U	0.43 U	0.27 U	-	R
1,4-Dichlorobenzene	ug/kg	5.3 U	0.32 U	0.30 U	0.52 U	0.33 U	-	R
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	21 U	1.2 U	1.1 U	1.9 U	1.2 U	-	1.3 U
2-Hexanone	ug/kg	21 U	0.53 U	0.50 U	0.86 U	0.55 U	-	0.59 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	21 U	0.82 U	0.77 U	1.3 U	0.84 U	-	0.91 U
Acetone	ug/kg	21 U	2.8 U	2.6 U	19 U	2.9 U	-	26 U
Benzene	ug/kg	5.3 U	0.29 U	0.28 U	0.48 U	0.30 U	-	0.33 U
Bromodichloromethane	ug/kg	5.3 U	0.30 U	0.29 U	0.49 U	0.31 U	-	0.34 U
Bromoform	ug/kg	5.3 U	0.37 U	0.35 U	0.59 U	0.38 U	-	0.41 U
Bromomethane (Methyl bromide)	ug/kg	5.3 UJ	0.54 U	0.51 U	0.88 U	0.56 U	-	0.60 U
Carbon disulfide	ug/kg	5.3 U	0.19 U	0.18 U	0.31 U	0.20 U	-	0.21 U
Carbon tetrachloride	ug/kg	5.3 U	0.23 U	0.22 U	0.37 U	0.24 U	-	0.25 U
Chlorobenzene	ug/kg	5.3 U	0.30 U	0.29 U	0.49 U	0.31 U	-	0.34 U
Chloroethane	ug/kg	5.3 UJ	0.35 U	0.33 U	0.56 U	0.36 U	-	0.39 U
Chloroform (Trichloromethane)	ug/kg	0.40 J	0.21 U	0.20 U	0.34 U	0.22 U	-	0.23 U
Chloromethane (Methyl chloride)	ug/kg	5.3 U	0.35 U	0.33 U	0.56 U	0.36 U	-	0.39 U
cis-1,2-Dichloroethene	ug/kg	5.3 U	0.26 U	0.24 U	0.42 U	0.27 U	-	0.29 U
cis-1,3-Dichloropropene	ug/kg	5.3 U	0.24 U	0.22 U	0.39 U	0.25 U	-	0.26 U
Cyclohexane	ug/kg	11 U	0.19 U	0.18 U	0.31 U	0.20 U	-	0.21 U
Dibromochloromethane	ug/kg	5.3 U	0.28 U	0.26 U	0.45 U	0.28 U	-	0.31 U
Dichlorodifluoromethane (CFC-12)	ug/kg	5.3 U	0.32 U	0.30 U	0.52 U	0.33 U	-	0.36 U
Ethylbenzene	ug/kg	5.3 U	0.30 J	0.23 U	8.6 J	0.26 U	-	0.27 U
Isopropyl benzene	ug/kg	5.3 U	0.18 U	0.17 U	1.4 J	0.19 U	-	0.20 U
Methyl acetate	ug/kg	11 U	1.1 U	1.0 U	1.7 U	1.1 U	-	1.2 U
Methyl cyclohexane	ug/kg	11 U	0.25 J	0.20 U	0.34 U	0.22 U	-	0.23 U
Methyl tert butyl ether (MTBE)	ug/kg	5.3 U	0.25 U	0.23 U	0.40 U	0.26 U	-	0.27 U
Methylene chloride	ug/kg	16 U	14 U	14 U	19 U	16 U	-	0.24 U
Styrene	ug/kg	5.3 U	0.25 U	0.23 U	0.40 U	0.26 U	-	0.27 U
Tetrachloroethene	ug/kg	0.69 J	0.34 U	0.32 U	0.55 U	0.35 U	-	0.38 U
Toluene	ug/kg	5.3 U	0.67 J	0.32 J	2.5 J	0.32 U	-	0.35 U
trans-1,2-Dichloroethene	ug/kg	5.3 U	0.35 U	0.33 U	0.56 U	0.36 U	-	0.39 U
trans-1,3-Dichloropropene	ug/kg	5.3 U	0.19 U	0.18 U	0.31 U	0.20 U	-	0.21 U
Trichloroethene	ug/kg	36	0.45 J	0.35 U	3.5 J	0.39 U	-	0.42 U
Trichlorofluoromethane (CFC-11)	ug/kg	5.3 U	0.22 U	0.21 U	0.36 U	0.23 U	-	0.24 U

Table 8

Summary of Analytical Results
Soil/Fill Samples - EU11
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH89-13**	**BH114-18**	**BH114-18**	**BH115-18**	**BH116-18**	**BH175-17**	**BH175-17**
Sample ID:		**S-38443-062413-SM-029**	**S-38443-011118-JC-040**	**S-38443-011118-JC-041**	**S-38443-011118-JC-039**	**S-38443-011118-JC-038**	**S-38443-121817-JC-008**	**S-38443-121817-JC-009**
Sample Date:		**6/24/2013**	**1/11/2018**	**1/11/2018**	**1/11/2018**	**1/11/2018**	**12/18/2017**	**12/18/2017**
Sample Depth:		**18-20 ft BGS**	**3-5 ft BGS**	**3-5 ft BGS**	**3-5 ft BGS**	**11-13 ft BGS**	**13-15 ft BGS**	**15.5-17.5 ft BGS**
				Duplicate				
Parameters	**Units**							
Trifluorotrichloroethane (CFC-113)	ug/kg	5.3 U	0.45 U	0.42 U	0.73 U	0.46 U	-	0.50 U
Vinyl chloride	ug/kg	5.3 U	0.26 U	0.24 U	0.42 U	0.27 U	-	0.29 U
Xylenes (total)	ug/kg	11 U	0.37 U	0.35 U	6.4 J	0.38 U	-	0.41 U
Semi-Volatiles								
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	-	11 U	10 U	14 U	24 U	-	11 U
2,4,5-Trichlorophenol	ug/kg	-	29 U	27 U	37 U	63 U	-	29 U
2,4,6-Trichlorophenol	ug/kg	-	10 U	9.6 U	13 UJ	22 U	-	10 U
2,4-Dichlorophenol	ug/kg	-	23 U	22 U	30 U	51 U	-	23 U
2,4-Dimethylphenol	ug/kg	-	23 U	22 U	30 UJ	51 U	-	23 U
2,4-Dinitrophenol	ug/kg	-	24 U	23 U	31 U	53 U	-	24 U
2,4-Dinitrotoluene	ug/kg	-	19 U	18 U	25 U	43 U	-	20 U
2,6-Dinitrotoluene	ug/kg	-	24 U	23 U	31 U	53 U	-	24 U
2-Chloronaphthalene	ug/kg	-	0.51 U	0.48 U	0.67 U	1.1 U	-	0.52 U
2-Chlorophenol	ug/kg	-	9.4 U	8.8 U	12 U	21 U	-	9.5 U
2-Methylnaphthalene	ug/kg	-	19	8.4	21	120	-	140
2-Methylphenol	ug/kg	-	13 U	12 U	16 UJ	28 U	-	13 U
2-Nitroaniline	ug/kg	-	10 U	9.8 U	14 U	23 U	-	11 U
2-Nitrophenol	ug/kg	-	9.5 U	8.9 U	12 U	21 U	-	9.6 U
3&4-Methylphenol	ug/kg	-	23 U	22 U	30 UJ	51 U	-	23 U
3,3'-Dichlorobenzidine	ug/kg	-	21 U	19 U	R	45 U	-	21 U
3-Nitroaniline	ug/kg	-	18 U	17 U	24 U	40 U	-	19 U
4,6-Dinitro-2-methylphenol	ug/kg	-	10 U	9.9 U	14 U	23 U	-	11 U
4-Bromophenyl phenyl ether	ug/kg	-	15 U	14 U	19 U	33 U	-	15 U
4-Chloro-3-methylphenol	ug/kg	-	24 U	23 U	31 U	53 U	-	24 U
4-Chloroaniline	ug/kg	-	19 U	18 U	25 U	43 U	-	20 U
4-Chlorophenyl phenyl ether	ug/kg	-	15 U	14 U	19 U	33 U	-	15 U
4-Methylphenol	ug/kg	-	-	-	-	-	-	-
4-Nitroaniline	ug/kg	-	30 U	28 U	39 U	66 U	-	30 U
4-Nitrophenol	ug/kg	-	19 U	18 U	25 U	43 U	-	20 U
Acenaphthene	ug/kg	-	0.87 U	0.82 U	6.9 J	24	-	0.88 U
Acenaphthylene	ug/kg	-	4.0 J	0.38 U	0.52 U	35	-	6.1 J
Acetophenone	ug/kg	-	10 U	9.9 U	14 U	23 U	-	16 J
Anthracene	ug/kg	-	4.3 J	6.0 J	6.9 J	100	-	31
Atrazine	ug/kg	-	10 U	9.8 U	14 U	23 U	-	11 U
Benzaldehyde	ug/kg	-	14 U	13 U	18 U	30 U	-	24 J
Benzo(a)anthracene	ug/kg	-	35	64	30 J	360	-	63
Benzo(a)pyrene	ug/kg	-	28	60	25 J	430	-	35
Benzo(b)fluoranthene	ug/kg	-	45	77	48 J	620	-	140
Benzo(g,h,i)perylene	ug/kg	-	27	41	24 J	190	-	38
Benzo(k)fluoranthene	ug/kg	-	14	31	16 J	240	-	41
Biphenyl (1,1-Biphenyl)	ug/kg	-	4.0 U	3.8 U	5.2 U	36 J	-	33 J
bis(2-Chloroethoxy)methane	ug/kg	-	25 U	24 U	33 U	56 U	-	25 U
bis(2-Chloroethyl)ether	ug/kg	-	2.3 U	2.2 U	3.0 U	5.1 U	-	2.3 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	-	28 J	23 J	28 U	48 U	-	91
Butyl benzylphthalate (BBP)	ug/kg	-	11 U	11 U	15 U	25 U	-	12 U

Table 8

Summary of Analytical Results
Soil/Fill Samples - EU11
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH89-13**	**BH114-18**	**BH114-18**	**BH115-18**	**BH116-18**	**BH175-17**	**BH175-17**
Sample ID:		**S-38443-062413-SM-029**	**S-38443-011118-JC-040**	**S-38443-011118-JC-041**	**S-38443-011118-JC-039**	**S-38443-011118-JC-038**	**S-38443-121817-JC-008**	**S-38443-121817-JC-009**
Sample Date:		**6/24/2013**	**1/11/2018**	**1/11/2018**	**1/11/2018**	**1/11/2018**	**12/18/2017**	**12/18/2017**
Sample Depth:		**18-20 ft BGS**	**3-5 ft BGS**	**3-5 ft BGS**	**3-5 ft BGS**	**11-13 ft BGS**	**13-15 ft BGS**	**15.5-17.5 ft BGS**
				Duplicate				
Parameters	**Units**							
Caprolactam	ug/kg	-	42 U	40 U	55 U	93 U	-	43 U
Carbazole	ug/kg	-	31 U	29 U	40 U	68 U	-	31 U
Chrysene	ug/kg	-	43	85	42 J	470	-	110
Dibenz(a,h)anthracene	ug/kg	-	0.75 U	10	0.98 UJ	63	-	0.76 U
Dibenzofuran	ug/kg	-	0.75 U	0.71 U	11 J	68 J	-	32 J
Diethyl phthalate	ug/kg	-	18 U	21 J	24 U	40 U	-	19 U
Dimethyl phthalate	ug/kg	-	19 U	18 U	25 U	43 U	-	20 U
Di-n-butylphthalate (DBP)	ug/kg	-	17 U	16 U	22 U	38 U	-	17 U
Di-n-octyl phthalate (DnOP)	ug/kg	-	9.0 U	8.5 U	12 U	20 U	-	9.2 U
Fluoranthene	ug/kg	-	46	67	86 J	720	-	90
Fluorene	ug/kg	-	0.60 U	0.57 U	0.79 U	53	-	20
Hexachlorobenzene	ug/kg	-	2.4 U	2.3 U	3.1 U	5.3 U	-	2.4 U
Hexachlorobutadiene	ug/kg	-	6.4 U	6.0 U	8.3 U	14 U	-	13 J
Hexachlorocyclopentadiene	ug/kg	-	9.2 U	8.7 U	R	20 U	-	9.4 U
Hexachloroethane	ug/kg	-	10 U	9.7 U	13 U	23 U	-	10 U
Indeno(1,2,3-cd)pyrene	ug/kg	-	18	26	15 J	180	-	34
Isophorone	ug/kg	-	15 U	14 U	19 U	33 U	-	15 U
Naphthalene	ug/kg	-	12	5.7 J	20	110	-	98
Nitrobenzene	ug/kg	-	2.5 U	2.4 U	3.3 U	5.6 U	-	2.5 U
N-Nitrosodi-n-propylamine	ug/kg	-	7.2 U	6.8 U	9.4 U	16 U	-	7.3 U
N-Nitrosodiphenylamine	ug/kg	-	24 U	23 U	31 UJ	53 U	-	24 U
Pentachlorophenol	ug/kg	-	10 U	9.8 U	R	23 U	-	11 U
Phenanthrene	ug/kg	-	26	24	90 J	570	-	190
Phenol	ug/kg	-	8.3 U	7.9 U	11 U	18 U	-	53 J
Pyrene	ug/kg	-	59	100	73 J	610	-	78
Metals								
Aluminum	mg/kg	-	5900 J	3900 J	14000 J	12000 J	-	2100
Antimony	mg/kg	-	0.60 J	0.23 J	1.1 J	2.8 J	-	0.34 J
Arsenic	mg/kg	-	11	7.9	45	13	-	12
Barium	mg/kg	-	68 J	42 J	440 J	200 J	-	63
Beryllium	mg/kg	-	0.48	0.28	6.5	0.96	-	0.41
Cadmium	mg/kg	-	0.42	0.40	0.31	19	-	0.63
Calcium	mg/kg	-	87000	150000	3400	65000	-	580
Chromium	mg/kg	-	12	8.8	33	13	7.1	23
Chromium III (trivalent)	mg/kg	-	12	8.8	32	13	7.1	23
Chromium VI (hexavalent)	mg/kg	-	0.32 J	0.26 U	0.69 J	1.5 U	1.6 U	0.28 U
Cobalt	mg/kg	-	5.4	4.3	22	6.3	-	3.7
Copper	mg/kg	-	24	13	64	410	-	47
Iron	mg/kg	-	13000	9300	8200	22000	-	34000
Lead	mg/kg	-	27	18	34	120	-	14
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-
Magnesium	mg/kg	-	38000	36000	820	32000	-	550
Manganese	mg/kg	-	470	710	46	420	-	300

Table 8

Summary of Analytical Results
Soil/Fill Samples - EU11
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH89-13**	**BH114-18**	**BH114-18**	**BH115-18**	**BH116-18**	**BH175-17**	**BH175-17**
Sample ID:		**S-38443-062413-SM-029**	**S-38443-011118-JC-040**	**S-38443-011118-JC-041**	**S-38443-011118-JC-039**	**S-38443-011118-JC-038**	**S-38443-121817-JC-008**	**S-38443-121817-JC-009**
Sample Date:		**6/24/2013**	**1/11/2018**	**1/11/2018**	**1/11/2018**	**1/11/2018**	**12/18/2017**	**12/18/2017**
Sample Depth:		**18-20 ft BGS**	**3-5 ft BGS**	**3-5 ft BGS**	**3-5 ft BGS**	**11-13 ft BGS**	**13-15 ft BGS**	**15.5-17.5 ft BGS**
				Duplicate				
Parameters	**Units**							
Mercury	mg/kg	-	0.024 J	0.026 J	0.55	0.32	-	0.019 U
Nickel	mg/kg	-	14	10	36	35	-	25
Potassium	mg/kg	-	690	480	1600	820	-	170 J
Selenium	mg/kg	-	0.71 J	0.47 J	3.1	7.3	-	4.6
Silver	mg/kg	-	0.051 J	0.029 J	0.10 J	0.44	-	0.069 J
Sodium	mg/kg	-	130 J	130 J	450	210 J	-	130 J
Thallium	mg/kg	-	0.22	0.20 J	1.4	0.26	-	0.23 J
Vanadium	mg/kg	-	17	11	72	18	-	6.0
Zinc	mg/kg	-	140	52	48	1200	-	30
PCBs								
Aroclor-1016 (PCB-1016)	ug/kg	-	25 U	24 U	33 U	27 U	-	25 U
Aroclor-1221 (PCB-1221)	ug/kg	-	28 U	26 U	36 U	30 U	-	27 U
Aroclor-1232 (PCB-1232)	ug/kg	-	26 U	25 U	34 U	29 U	-	26 U
Aroclor-1242 (PCB-1242)	ug/kg	-	22 U	21 U	28 U	24 U	-	22 U
Aroclor-1248 (PCB-1248)	ug/kg	-	28 U	26 U	36 U	30 U	-	27 U
Aroclor-1254 (PCB-1254)	ug/kg	-	26 U	25 U	34 U	29 U	-	37 J
Aroclor-1260 (PCB-1260)	ug/kg	-	25 U	24 U	33 U	27 U	-	25 U
Pesticides								
4,4'-DDD	ug/kg	-	3.8 U	3.6 U	4.9 U	41 U	-	19 U
4,4'-DDE	ug/kg	-	1.4 U	1.3 U	1.8 U	15 U	-	6.9 U
4,4'-DDT	ug/kg	-	1.6 U	1.5 U	3.1 J	17 U	-	8.0 U
Aldrin	ug/kg	-	2.8 U	2.6 U	3.6 U	30 U	-	14 U
alpha-BHC	ug/kg	-	1.8 U	1.7 U	2.4 U	20 U	-	9.2 U
alpha-Chlordane	ug/kg	-	4.4 U	4.1 U	5.7 U	47 U	-	22 U
beta-BHC	ug/kg	-	4.5 U	4.2 U	5.8 U	49 U	-	22 U
delta-BHC	ug/kg	-	1.5 U	1.4 U	1.9 U	16 U	-	7.5 U
Dieldrin	ug/kg	-	1.0 U	0.97 U	1.3 U	11 U	-	5.2 U
Endosulfan I	ug/kg	-	1.5 U	1.4 U	1.9 U	16 U	-	7.5 U
Endosulfan II	ug/kg	-	2.1 U	1.9 U	2.7 U	22 U	-	10 U
Endosulfan sulfate	ug/kg	-	1.4 U	1.3 U	1.8 U	15 U	-	6.9 U
Endrin	ug/kg	-	1.6 U	1.5 U	2.1 U	17 U	-	8.0 U
Endrin aldehyde	ug/kg	-	2.1 U	1.9 U	5.4 J	22 U	-	10 U
Endrin ketone	ug/kg	-	1.3 U	1.2 U	1.6 U	14 U	-	6.3 U
gamma-BHC (lindane)	ug/kg	-	3.3 U	3.1 U	4.3 U	36 U	-	17 U
gamma-Chlordane	ug/kg	-	1.7 U	1.6 U	2.2 U	19 U	-	8.6 U
Heptachlor	ug/kg	-	0.90 U	0.84 U	1.2 U	9.7 U	-	4.5 U
Heptachlor epoxide	ug/kg	-	2.8 U	2.6 U	3.6 U	30 U	-	14 U
Methoxychlor	ug/kg	-	2.7 J	1.3 U	1.8 U	15 U	-	6.9 U
Toxaphene	ug/kg	-	43 U	40 U	55 U	460 U	-	210 U
Herbicides								
2,4,5-T	ug/kg	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/kg	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	-	-	-	-	-	-	-

Table 8

Summary of Analytical Results
Soil/Fill Samples - EU11
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH89-13**	**BH114-18**	**BH114-18**	**BH115-18**	**BH116-18**	**BH175-17**	**BH175-17**
Sample ID:		**S-38443-062413-SM-029**	**S-38443-011118-JC-040**	**S-38443-011118-JC-041**	**S-38443-011118-JC-039**	**S-38443-011118-JC-038**	**S-38443-121817-JC-008**	**S-38443-121817-JC-009**
Sample Date:		**6/24/2013**	**1/11/2018**	**1/11/2018**	**1/11/2018**	**1/11/2018**	**12/18/2017**	**12/18/2017**
Sample Depth:		**18-20 ft BGS**	**3-5 ft BGS**	**3-5 ft BGS**	**3-5 ft BGS**	**11-13 ft BGS**	**13-15 ft BGS**	**15.5-17.5 ft BGS**
				Duplicate				
Parameters	**Units**							
Dioxin/Furans								
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Asbestos								
Asbestos	%	-	ND	-	ND	-	-	ND
Chrysotile asbestos	%	-	-	-	-	2	-	-
General Chemistry								
Cyanide (total)	mg/kg	-	0.15 U	0.13 U	0.25 U	0.59 U	-	0.13 J
Total solids	%	-	-	-	-	-	-	-

Notes
J - Estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 8

Summary of Analytical Results
Soil/Fill Samples - EU11
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-25**	**SS-70**	**SS-71**	**SS-72**	**SS-73**	**SS-74**	**SS-75**
Sample ID:		**S-38443-110117-BW-011**	**SS-38443-103018-JC-070**	**SS-38443-103018-JC-071**	**SS-38443-103018-JC-072**	**SS-38443-103018-JC-073**	**SS-38443-103018-JC-074**	**SS-38443-103018-JC-075**
Sample Date:		**11/1/2017**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.5-2.25 ft BGS**	**0.17-2.17 ft BGS**	**0-2 ft BGS**	**0.5-2.5 ft BGS**
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/kg	0.54 J	0.73 U	0.85 U	0.76 U	1.0 U	0.78 U	0.89 U
1,1,2,2-Tetrachloroethane	ug/kg	0.30 U	1.3 U	1.5 U	1.3 U	1.8 U	1.4 U	1.6 U
1,1,2-Trichloroethane	ug/kg	0.45 U	1.0 U	1.2 U	1.1 U	1.4 U	1.1 U	1.2 U
1,1-Dichloroethane	ug/kg	0.38 U	0.62 U	0.72 U	0.65 U	0.87 U	0.66 U	0.76 U
1,1-Dichloroethene	ug/kg	0.62 U	0.81 U	0.94 U	0.84 U	1.1 U	0.86 U	0.99 U
1,2,4-Trichlorobenzene	ug/kg	0.27 U	0.51 U	0.59 U	0.53 U	0.72 U	0.55 U	0.62 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	0.78 U	3.2 U	3.7 U	3.4 U	4.5 U	3.4 U	3.9 U
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	0.40 U	0.69 U	0.80 U	0.72 U	0.97 U	0.73 U	0.84 U
1,2-Dichlorobenzene	ug/kg	0.25 U	1.0 U	1.2 U	1.0 U	1.4 U	1.1 U	1.2 U
1,2-Dichloroethane	ug/kg	0.33 U	0.69 U	0.80 U	0.72 U	0.97 U	0.74 U	0.84 U
1,2-Dichloropropane	ug/kg	0.35 U	0.76 U	0.88 U	0.79 U	1.1 U	0.81 U	0.93 U
1,3-Dichlorobenzene	ug/kg	0.33 U	0.73 U	0.85 U	0.76 U	1.0 U	0.78 U	0.89 U
1,4-Dichlorobenzene	ug/kg	0.40 U	0.79 U	0.92 U	0.82 U	1.1 U	0.84 U	0.96 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	1.5 U	3.2 U	4.4 J	12 J	5.1 J	3.4 U	4.2 J
2-Hexanone	ug/kg	0.66 U	3.7 U	4.2 U	3.8 U	5.1 U	3.9 U	4.5 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	1.0 U	3.3 U	3.9 U	3.5 U	4.7 U	3.5 U	4.1 U
Acetone	ug/kg	3.5 U	19 U	53	57	60	20 U	25 J
Benzene	ug/kg	0.37 U	0.63 U	0.73 U	0.65 U	0.88 U	0.67 U	0.76 U
Bromodichloromethane	ug/kg	0.38 U	0.61 U	0.71 U	0.63 U	0.85 U	0.65 U	0.74 U
Bromoform	ug/kg	0.46 U	2.2 U	2.5 U	2.2 U	3.0 U	2.3 U	2.6 U
Bromomethane (Methyl bromide)	ug/kg	0.67 U	0.89 U	1.0 U	0.92 U	1.2 U	0.94 U	1.1 U
Carbon disulfide	ug/kg	0.24 U	1.0 U	1.2 U	1.1 U	1.5 U	1.1 U	1.3 U
Carbon tetrachloride	ug/kg	0.29 U	2.9 U	3.4 U	3.0 U	4.1 U	3.1 U	3.6 U
Chlorobenzene	ug/kg	0.38 U	0.82 U	0.95 U	0.85 U	1.2 U	0.87 U	1.0 U
Chloroethane	ug/kg	0.43 U	1.1 U	1.3 U	1.1 U	1.5 U	1.2 U	1.3 U
Chloroform (Trichloromethane)	ug/kg	0.26 U	0.71 U	0.82 U	0.73 U	0.99 U	0.75 U	0.86 U
Chloromethane (Methyl chloride)	ug/kg	0.43 U	0.93 U	1.1 U	0.97 U	1.3 U	0.99 U	1.1 U
cis-1,2-Dichloroethene	ug/kg	0.39 J	0.58 U	0.68 U	1.6 J	0.82 U	0.62 U	0.71 U
cis-1,3-Dichloropropene	ug/kg	0.30 U	1.3 U	1.5 U	1.3 U	1.8 U	1.4 U	1.6 U
Cyclohexane	ug/kg	0.24 U	1.2 U	1.4 U	1.3 U	1.7 U	1.3 U	1.5 U
Dibromochloromethane	ug/kg	0.34 U	2.5 U	2.9 U	2.6 U	3.5 U	2.7 U	3.0 U
Dichlorodifluoromethane (CFC-12)	ug/kg	0.40 U	0.85 U	0.98 U	0.88 U	1.2 U	0.90 U	1.0 U
Ethylbenzene	ug/kg	0.31 U	0.94 U	1.1 U	0.98 U	1.3 U	1.0 U	1.1 U
Isopropyl benzene	ug/kg	0.23 U	0.75 U	0.86 U	0.78 U	1.0 U	0.79 U	0.91 U
Methyl acetate	ug/kg	1.3 U	3.0 U	3.5 U	3.2 U	4.3 U	3.2 U	3.7 U
Methyl cyclohexane	ug/kg	0.26 U	1.1 U	1.3 U	1.1 U	1.5 U	1.2 U	1.3 U
Methyl tert butyl ether (MTBE)	ug/kg	0.31 U	0.73 U	0.85 U	0.76 U	1.0 U	0.78 U	0.89 U
Methylene chloride	ug/kg	0.27 U	11 U	12 U	11 U	15 U	11 U	13 U
Styrene	ug/kg	0.31 U	1.0 U	1.2 U	1.1 U	1.5 U	1.1 U	1.3 U
Tetrachloroethene	ug/kg	1.1 J	0.65 U	0.76 U	0.68 U	0.92 U	0.70 U	0.80 U
Toluene	ug/kg	0.39 U	0.69 U	0.80 U	0.72 U	0.97 U	0.74 U	0.84 U
trans-1,2-Dichloroethene	ug/kg	0.43 U	0.42 U	0.48 U	0.43 U	0.59 U	0.44 U	0.51 U
trans-1,3-Dichloropropene	ug/kg	0.24 U	0.93 U	1.1 U	0.96 U	1.3 U	0.99 U	1.1 U
Trichloroethene	ug/kg	67	0.57 U	1.7 J	0.59 U	1.7 J	0.60 U	0.69 U
Trichlorofluoromethane (CFC-11)	ug/kg	0.27 U	0.97 U	1.1 U	1.0 U	1.4 U	1.0 U	1.2 U

Table 8

Summary of Analytical Results
Soil/Fill Samples - EU11
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-25**	**SS-70**	**SS-71**	**SS-72**	**SS-73**	**SS-74**	**SS-75**
Sample ID:		**S-38443-110117-BW-011**	**SS-38443-103018-JC-070**	**SS-38443-103018-JC-071**	**SS-38443-103018-JC-072**	**SS-38443-103018-JC-073**	**SS-38443-103018-JC-074**	**SS-38443-103018-JC-075**
Sample Date:		**11/1/2017**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.5-2.25 ft BGS**	**0.17-2.17 ft BGS**	**0-2 ft BGS**	**0.5-2.5 ft BGS**
Parameters	**Units**							
Trifluorotrichloroethane (CFC-113)	ug/kg	0.56 U	1.1 U	1.3 U	1.2 U	1.6 U	1.2 U	1.4 U
Vinyl chloride	ug/kg	0.32 U	0.75 U	0.87 U	0.78 U	1.1 U	0.80 U	0.91 U
Xylenes (total)	ug/kg	0.46 U	1.4 U	1.6 U	1.5 U	2.0 U	1.5 U	1.7 U
Semi-Volatiles								
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	10 U	11 U	11 U	11 U	11 U	21 U	11 U
2,4,5-Trichlorophenol	ug/kg	27 U	74 U	76 U	75 U	78 U	150 U	79 U
2,4,6-Trichlorophenol	ug/kg	9.6 U	69 U	70 U	69 U	73 U	140 U	74 U
2,4-Dichlorophenol	ug/kg	22 U	47 U	48 U	48 U	50 U	93 U	51 U
2,4-Dimethylphenol	ug/kg	22 U	43 U	44 U	43 U	45 U	85 U	46 U
2,4-Dinitrophenol	ug/kg	23 U	150 U	160 U	150 U	160 U	300 U	160 U
2,4-Dinitrotoluene	ug/kg	18 U	66 U	68 U	67 U	70 U	130 U	71 U
2,6-Dinitrotoluene	ug/kg	23 U	60 U	61 U	61 U	64 U	120 U	64 U
2-Chloronaphthalene	ug/kg	0.49 U	15 U	15 U	15 U	16 U	30 U	16 U
2-Chlorophenol	ug/kg	8.8 U	11 U	11 U	11 U	11 U	21 U	11 U
2-Methylnaphthalene	ug/kg	32	77	15 J	47	610	44	74
2-Methylphenol	ug/kg	12 U	33 U	34 U	34 U	35 U	66 U	36 U
2-Nitroaniline	ug/kg	9.8 U	43 U	44 U	43 U	45 U	85 U	46 U
2-Nitrophenol	ug/kg	9.0 U	14 U	14 U	14 U	15 U	28 U	15 U
3&4-Methylphenol	ug/kg	22 U	31 U	32 U	31 U	33 U	61 U	33 U
3,3'-Dichlorobenzidine	ug/kg	19 U	46 U	47 U	47 U	49 U	91 U	49 U
3-Nitroaniline	ug/kg	17 U	52 U	54 U	53 U	56 U	100 U	56 U
4,6-Dinitro-2-methylphenol	ug/kg	9.9 U	86 U	88 U	87 U	91 U	170 U	92 U
4-Bromophenyl phenyl ether	ug/kg	14 U	15 U	15 U	15 U	16 U	30 U	16 U
4-Chloro-3-methylphenol	ug/kg	23 U	48 U	49 U	49 U	51 U	95 U	52 U
4-Chloroaniline	ug/kg	18 U	32 U	33 U	33 U	34 U	64 U	34 U
4-Chlorophenyl phenyl ether	ug/kg	14 U	15 U	15 U	15 U	16 U	30 U	16 U
4-Methylphenol	ug/kg	-	-	-	-	-	-	-
4-Nitroaniline	ug/kg	28 U	64 U	66 U	65 U	68 U	130 U	69 U
4-Nitrophenol	ug/kg	18 U	100 U	100 U	100 U	110 U	200 U	110 U
Acenaphthene	ug/kg	5.0 J	12 J	3.1 U	17	17	48	36
Acenaphthylene	ug/kg	5.1 J	13 J	46	120	64	21 J	56
Acetophenone	ug/kg	26 J	12 U	12 U	12 U	53 J	23 U	13 U
Anthracene	ug/kg	27	33	14 J	78	50	200	180
Atrazine	ug/kg	9.8 U	39 U	39 U	39 U	41 U	76 U	41 U
Benzaldehyde	ug/kg	25 J	25 U	25 U	25 U	55 J	49 U	26 U
Benzo(a)anthracene	ug/kg	25	130	61	400	410	1200	470
Benzo(a)pyrene	ug/kg	33	120	80	380	410	1400	440
Benzo(b)fluoranthene	ug/kg	59	200	100	580	570	2000	550
Benzo(g,h,i)perylene	ug/kg	27	85	100	190	210	940	200
Benzo(k)fluoranthene	ug/kg	28	67	28	190	220	640	230
Biphenyl (1,1-Biphenyl)	ug/kg	7.4 J	18 U	19 U	18 U	56 J	36 U	20 U
bis(2-Chloroethoxy)methane	ug/kg	24 U	13 U	13 U	13 U	14 U	25 U	14 U
bis(2-Chloroethyl)ether	ug/kg	2.2 U	13 U	13 U	13 U	14 U	25 U	14 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	630	55 U	56 U	55 U	58 U	110 U	69 J
Butyl benzylphthalate (BBP)	ug/kg	11 U	41 J	24 U	24 U	25 U	47 U	25 U

Table 8

Summary of Analytical Results
Soil/Fill Samples - EU11
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-25**	**SS-70**	**SS-71**	**SS-72**	**SS-73**	**SS-74**	**SS-75**
Sample ID:		**S-38443-110117-BW-011**	**SS-38443-103018-JC-070**	**SS-38443-103018-JC-071**	**SS-38443-103018-JC-072**	**SS-38443-103018-JC-073**	**SS-38443-103018-JC-074**	**SS-38443-103018-JC-075**
Sample Date:		**11/1/2017**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.5-2.25 ft BGS**	**0.17-2.17 ft BGS**	**0-2 ft BGS**	**0.5-2.5 ft BGS**
Parameters	**Units**							
Caprolactam	ug/kg	44 J	80 U	82 U	81 U	85 U	160 U	86 U
Carbazole	ug/kg	29 U	39 J	25 J	62	46 J	120	83
Chrysene	ug/kg	40	190	74	490	510	1300	480
Dibenz(a,h)anthracene	ug/kg	0.71 U	28	19	57	74	220	61
Dibenzofuran	ug/kg	13 J	25 J	14 U	20 J	150	49 J	54 J
Diethyl phthalate	ug/kg	17 U	33 U	34 U	34 U	35 U	66 U	36 U
Dimethyl phthalate	ug/kg	18 U	15 U	15 U	15 U	16 U	30 U	16 U
Di-n-butylphthalate (DBP)	ug/kg	16 U	24 U	24 U	27 J	25 U	47 U	25 U
Di-n-octyl phthalate (DnOP)	ug/kg	8.5 U	30 U	31 U	30 U	32 U	59 U	32 U
Fluoranthene	ug/kg	52	270	62	740	400	2000	830
Fluorene	ug/kg	6.5 J	14 J	3.8 J	42	23	56	85
Hexachlorobenzene	ug/kg	2.3 U	3.1 U	3.1 U	3.1 U	3.2 U	6.0 U	3.3 U
Hexachlorobutadiene	ug/kg	6.0 U	13 U	13 U	13 U	14 U	25 U	14 U
Hexachlorocyclopentadiene	ug/kg	8.7 U	66 U	68 U	67 U	70 U	130 U	71 U
Hexachloroethane	ug/kg	9.7 U	9.6 U	9.9 U	9.8 U	10 U	19 U	10 U
Indeno(1,2,3-cd)pyrene	ug/kg	23	60	55	160	190	910	190
Isophorone	ug/kg	14 U	13 U	13 U	13 U	14 U	25 U	14 U
Naphthalene	ug/kg	34	48	11 J	44	400	33	50
Nitrobenzene	ug/kg	2.4 U	14 U	14 U	14 U	15 U	28 U	15 U
N-Nitrosodi-n-propylamine	ug/kg	6.8 U	12 U	12 U	12 U	13 U	23 U	13 U
N-Nitrosodiphenylamine	ug/kg	23 U	13 U	13 U	13 U	14 U	25 U	14 U
Pentachlorophenol	ug/kg	9.8 U	62 UJ	64 UJ	63 UJ	66 UJ	120 UJ	67 UJ
Phenanthrene	ug/kg	67	220	34	400	440	900	600
Phenol	ug/kg	7.9 U	8.6 U	8.8 U	8.7 U	9.1 U	17 U	9.2 U
Pyrene	ug/kg	56	240	90	760	460	1800	860
Metals								
Aluminum	mg/kg	3500 J	4500	9000	4200	4100	3300	11000
Antimony	mg/kg	0.69 J	0.19 J	0.27 J	0.25 J	0.19 J	0.39 J	2.4 J
Arsenic	mg/kg	3.9	6.5	13	6.1	5.2	7.1	11
Barium	mg/kg	35 J	40	79	85	54	60	99
Beryllium	mg/kg	0.22	0.28	0.49	0.40	0.37	0.23	1.1
Cadmium	mg/kg	0.67	0.24	0.71	0.35	1.0	1.0	0.21
Calcium	mg/kg	52000	110000	63000	100000 J	150000	99000	36000 J
Chromium	mg/kg	25	7.4	13	7.7	7.2	24	15
Chromium III (trivalent)	mg/kg	-	7.4	13	7.7	7.2	24	15
Chromium VI (hexavalent)	mg/kg	-	0.26 U	0.27 U	0.26 U	0.28 U	0.26 U	1.4 U
Cobalt	mg/kg	4.7	3.7	5.4	3.5	3.5	3.8	6.9
Copper	mg/kg	120	19	16	38	11	39	85
Iron	mg/kg	15000	17000	14000	8900	8200	20000	25000
Lead	mg/kg	140 J	35 J	17 J	160	19 J	41 J	71
Lead - coarse fraction	mg/kg	-	31	-	82	-	-	-
Lead - fine fraction	mg/kg	-	85	-	150	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	35	-	89	-	-	-
Magnesium	mg/kg	26000	50000	32000	39000 J	83000	32000	15000 J
Manganese	mg/kg	390	390	480	330	280	390	290

Table 8

Summary of Analytical Results
Soil/Fill Samples - EU11
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-25**	**SS-70**	**SS-71**	**SS-72**	**SS-73**	**SS-74**	**SS-75**
Sample ID:		**S-38443-110117-BW-011**	**SS-38443-103018-JC-070**	**SS-38443-103018-JC-071**	**SS-38443-103018-JC-072**	**SS-38443-103018-JC-073**	**SS-38443-103018-JC-074**	**SS-38443-103018-JC-075**
Sample Date:		**11/1/2017**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.5-2.25 ft BGS**	**0.17-2.17 ft BGS**	**0-2 ft BGS**	**0.5-2.5 ft BGS**
Parameters	**Units**							
Mercury	mg/kg	0.026 J	0.19	0.023 J	0.056 J	0.037 J	0.15	0.85
Nickel	mg/kg	19 J	12	12	11	7.6	20	19
Potassium	mg/kg	410	710	900	600	660	480	1300
Selenium	mg/kg	0.93 U	0.17 J	0.36 J	0.30 J	0.20 J	0.19 J	0.50 J
Silver	mg/kg	0.16 J	0.042 J	0.039 J	0.059 J	0.044 J	0.11 J	0.097 J
Sodium	mg/kg	100 U	130 J	170 J	320	240	120 J	590
Thallium	mg/kg	0.12 J	0.13 J	0.16 J	0.12 J	0.13 J	0.095 U	0.24
Vanadium	mg/kg	8.6	33	23	13	12	15	28
Zinc	mg/kg	58	52 J	74 J	100 J	38 J	88 J	100 J
PCBs								
Aroclor-1016 (PCB-1016)	ug/kg	26 U	23 U	24 U	24 U	24 U	23 U	25 U
Aroclor-1221 (PCB-1221)	ug/kg	25 U	25 U	26 U	26 U	27 U	25 U	27 U
Aroclor-1232 (PCB-1232)	ug/kg	17 U	24 U	25 U	25 U	25 U	24 U	26 U
Aroclor-1242 (PCB-1242)	ug/kg	21 U	20 U	20 U	20 U	21 U	20 U	21 U
Aroclor-1248 (PCB-1248)	ug/kg	18 U	25 U	26 U	26 U	27 U	25 U	27 U
Aroclor-1254 (PCB-1254)	ug/kg	390	24 U	25 U	96	25 U	140	910
Aroclor-1260 (PCB-1260)	ug/kg	19 U	23 J	36 J	24 U	24 U	23 U	25 U
Pesticides								
4,4'-DDD	ug/kg	71 U	16 U	16 U	16 U	16 U	15 U	17 U
4,4'-DDE	ug/kg	26 U	16 U	16 U	16 U	17 U	16 U	17 U
4,4'-DDT	ug/kg	30 U	12 U	12 U	12 U	13 U	12 U	13 U
Aldrin	ug/kg	52 U	8.2 U	8.3 U	8.3 U	8.5 U	8.0 U	8.6 U
alpha-BHC	ug/kg	35 U	9.6 U	9.8 U	9.8 U	10 U	9.4 U	10 U
alpha-Chlordane	ug/kg	82 U	16 U	16 U	16 U	17 U	16 U	17 U
beta-BHC	ug/kg	84 U	18 U	19 U	19 U	19 U	18 U	19 U
delta-BHC	ug/kg	28 U	18 U	18 U	91 U	19 U	17 U	19 U
Dieldrin	ug/kg	19 U	12 U	12 U	12 U	12 U	11 U	12 U
Endosulfan I	ug/kg	28 U	13 U	13 U	13 U	13 U	12 U	13 U
Endosulfan II	ug/kg	39 U	16 U	16 U	16 U	16 U	15 U	17 U
Endosulfan sulfate	ug/kg	26 U	14 U	14 U	14 U	14 U	13 U	14 U
Endrin	ug/kg	30 U	20 U	20 U	20 U	21 U	20 U	21 U
Endrin aldehyde	ug/kg	39 U	14 U	14 U	14 U	15 U	14 U	15 U
Endrin ketone	ug/kg	24 U	9.4 U	9.6 U	9.6 U	9.9 U	9.2 U	10 U
gamma-BHC (lindane)	ug/kg	63 U	19 U	19 U	19 U	20 U	19 U	20 U
gamma-Chlordane	ug/kg	32 U	13 U	13 U	13 U	14 U	13 U	14 U
Heptachlor	ug/kg	17 U	17 U	17 U	17 U	17 U	16 U	18 U
Heptachlor epoxide	ug/kg	52 U	15 U	15 U	15 U	16 U	15 U	16 U
Methoxychlor	ug/kg	26 U	69 U	71 U	70 U	73 U	68 U	73 U
Toxaphene	ug/kg	800 U	260 U	270 U	270 U	280 U	260 U	280 U
Herbicides								
2,4,5-T	ug/kg	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/kg	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	-	-	-	-	-	-	-

Table 8

Summary of Analytical Results
Soil/Fill Samples - EU11
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-25**	**SS-70**	**SS-71**	**SS-72**	**SS-73**	**SS-74**	**SS-75**
Sample ID:		**S-38443-110117-BW-011**	**SS-38443-103018-JC-070**	**SS-38443-103018-JC-071**	**SS-38443-103018-JC-072**	**SS-38443-103018-JC-073**	**SS-38443-103018-JC-074**	**SS-38443-103018-JC-075**
Sample Date:		**11/1/2017**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.5-2.25 ft BGS**	**0.17-2.17 ft BGS**	**0-2 ft BGS**	**0.5-2.5 ft BGS**
Parameters	**Units**							
Dioxin/Furans								
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Asbestos								
Asbestos	%	-	-	-	-	-	-	-
Chrysotile asbestos	%	-	-	-	-	-	-	-
General Chemistry								
Cyanide (total)	mg/kg	0.46 U	0.18 U	0.20 U	0.22 U	0.21 J	0.20 U	0.27 J
Total solids	%	-	-	-	-	-	-	-

Notes
J - Estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 8

Summary of Analytical Results
Soil/Fill Samples - EU11
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-76**	**SS-77**	**SS-165-AS**	**SS-166-AS**	**TP-13**	**TT-11**	**TT-11**
Sample ID:		**SS-38443-103018-JC-076**	**SS-38443-103018-JC-077**	**SS-38443-103018-JC-165**	**SS-38443-103018-JC-166**	**S-38443-110117-BW-012**	**S-38443-100208-KMV-041**	**S-38443-100208-KMV-042**
Sample Date:		**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**11/1/2017**	**10/2/2008**	**10/2/2008**
Sample Depth:		**0-2 ft BGS**	**0.5-2.5 ft BGS**	**0.5-1 ft BGS**	**0.5-1 ft BGS**	**8-10 ft BGS**	**5 ft BGS**	**10 ft BGS**
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/kg	0.96 U	-	-	-	77 U	4.4 U	5.3 U
1,1,2,2-Tetrachloroethane	ug/kg	R	-	-	-	66 U	4.4 U	5.3 U
1,1,2-Trichloroethane	ug/kg	1.3 U	-	-	-	63 U	4.4 U	5.3 U
1,1-Dichloroethane	ug/kg	0.81 U	-	-	-	85 U	4.4 U	5.3 U
1,1-Dichloroethene	ug/kg	1.1 U	-	-	-	99 U	4.4 U	5.3 U
1,2,4-Trichlorobenzene	ug/kg	R	-	-	-	71 U	4.4 U	5.3 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	R	-	-	-	130 U	8.9 U	11 U
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	0.90 U	-	-	-	63 U	4.4 U	5.3 U
1,2-Dichlorobenzene	ug/kg	R	-	-	-	49 U	4.4 U	5.3 U
1,2-Dichloroethane	ug/kg	0.90 U	-	-	-	82 U	4.4 U	5.3 U
1,2-Dichloropropane	ug/kg	0.99 U	-	-	-	82 U	4.4 U	5.3 U
1,3-Dichlorobenzene	ug/kg	R	-	-	-	100 U	4.4 U	5.3 U
1,4-Dichlorobenzene	ug/kg	R	-	-	-	74 U	4.4 U	5.3 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	4.2 U	-	-	-	140 U	18 U	21 U
2-Hexanone	ug/kg	4.8 U	-	-	-	240 U	18 U	21 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	4.3 U	-	-	-	110 U	18 U	21 U
Acetone	ug/kg	25 U	-	-	-	270 U	18 U	R
Benzene	ug/kg	0.82 U	-	-	-	66 U	4.4 U	5.3 U
Bromodichloromethane	ug/kg	0.79 U	-	-	-	49 U	4.4 U	5.3 U
Bromoform	ug/kg	2.8 U	-	-	-	63 U	4.4 U	5.3 U
Bromomethane (Methyl bromide)	ug/kg	1.2 U	-	-	-	77 UJ	4.4 U	5.3 U
Carbon disulfide	ug/kg	1.4 U	-	-	-	49 U	4.4 U	5.3 U
Carbon tetrachloride	ug/kg	3.8 U	-	-	-	74 U	4.4 U	5.3 U
Chlorobenzene	ug/kg	1.1 U	-	-	-	82 U	4.4 U	5.3 U
Chloroethane	ug/kg	1.4 U	-	-	-	77 U	4.4 U	5.3 U
Chloroform (Trichloromethane)	ug/kg	0.92 U	-	-	-	66 U	4.4 U	5.3 U
Chloromethane (Methyl chloride)	ug/kg	1.2 U	-	-	-	49 U	4.4 U	5.3 U
cis-1,2-Dichloroethene	ug/kg	1.2 U	-	-	-	96 U	4.4 U	5.3 U
cis-1,3-Dichloropropene	ug/kg	1.7 U	-	-	-	63 U	4.4 U	5.3 U
Cyclohexane	ug/kg	1.6 U	-	-	-	82 U	8.9 U	11 U
Dibromochloromethane	ug/kg	3.2 U	-	-	-	93 U	4.4 U	5.3 U
Dichlorodifluoromethane (CFC-12)	ug/kg	1.1 U	-	-	-	60 U	4.4 U	5.3 U
Ethylbenzene	ug/kg	1.2 U	-	-	-	96 U	4.4 U	5.3 U
Isopropyl benzene	ug/kg	0.97 U	-	-	-	93 U	4.4 U	5.3 U
Methyl acetate	ug/kg	4.0 U	-	-	-	210 U	8.9 U	11 U
Methyl cyclohexane	ug/kg	1.4 U	-	-	-	100 U	8.9 U	11 U
Methyl tert butyl ether (MTBE)	ug/kg	0.96 U	-	-	-	71 U	18 U	21 U
Methylene chloride	ug/kg	14 U	-	-	-	180 U	4.4 U	5.3 U
Styrene	ug/kg	1.4 U	-	-	-	27 U	4.4 U	5.3 U
Tetrachloroethene	ug/kg	0.85 U	-	-	-	58 U	4.4 U	5.3 U
Toluene	ug/kg	0.90 U	-	-	-	75 J	4.4 U	5.3 U
trans-1,2-Dichloroethene	ug/kg	0.54 U	-	-	-	96 U	4.4 U	5.3 U
trans-1,3-Dichloropropene	ug/kg	1.2 U	-	-	-	41 U	4.4 U	5.3 U
Trichloroethene	ug/kg	1.1 J	-	-	-	2400	4.4 U	5.3 U
Trichlorofluoromethane (CFC-11)	ug/kg	1.3 U	-	-	-	93 U	4.4 U	5.3 U

Table 8

Summary of Analytical Results
Soil/Fill Samples - EU11
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-76**	**SS-77**	**SS-165-AS**	**SS-166-AS**	**TP-13**	**TT-11**	**TT-11**
Sample ID:		**SS-38443-103018-JC-076**	**SS-38443-103018-JC-077**	**SS-38443-103018-JC-165**	**SS-38443-103018-JC-166**	**S-38443-110117-BW-012**	**S-38443-100208-KMV-041**	**S-38443-100208-KMV-042**
Sample Date:		**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**11/1/2017**	**10/2/2008**	**10/2/2008**
Sample Depth:		**0-2 ft BGS**	**0.5-2.5 ft BGS**	**0.5-1 ft BGS**	**0.5-1 ft BGS**	**8-10 ft BGS**	**5 ft BGS**	**10 ft BGS**
Parameters	**Units**							
Trifluorotrichloroethane (CFC-113)	ug/kg	1.5 U	-	-	-	63 U	4.4 U	5.3 U
Vinyl chloride	ug/kg	0.98 U	-	-	-	47 U	4.4 U	5.3 U
Xylenes (total)	ug/kg	1.9 U	-	-	-	77 U	1.1 J	11 U
Semi-Volatiles								
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	12 U	-	-	-	11 U	110 U	220 U
2,4,5-Trichlorophenol	ug/kg	80 U	-	-	-	28 U	160 U	330 U
2,4,6-Trichlorophenol	ug/kg	74 U	-	-	-	9.9 U	160 U	330 U
2,4-Dichlorophenol	ug/kg	51 U	-	-	-	22 U	160 U	330 U
2,4-Dimethylphenol	ug/kg	46 U	-	-	-	22 U	160 U	330 U
2,4-Dinitrophenol	ug/kg	170 U	-	-	-	23 U	360 U	720 U
2,4-Dinitrotoluene	ug/kg	72 U	-	-	-	19 U	220 U	430 U
2,6-Dinitrotoluene	ug/kg	65 U	-	-	-	23 U	220 U	430 U
2-Chloronaphthalene	ug/kg	16 U	-	-	-	0.50 U	54 U	110 U
2-Chlorophenol	ug/kg	12 U	-	-	-	9.1 U	54 U	110 U
2-Methylnaphthalene	ug/kg	72	-	-	-	72	7.2 U	18
2-Methylphenol	ug/kg	36 U	-	-	-	12 U	220 U	430 U
2-Nitroaniline	ug/kg	46 U	-	-	-	10 U	220 U	430 U
2-Nitrophenol	ug/kg	15 U	-	-	-	9.2 U	54 U	110 U
3&4-Methylphenol	ug/kg	34 U	-	-	-	22 U	-	-
3,3'-Dichlorobenzidine	ug/kg	50 U	-	-	-	20 U	110 U	220 U
3-Nitroaniline	ug/kg	57 U	-	-	-	18 U	220 U	430 U
4,6-Dinitro-2-methylphenol	ug/kg	93 U	-	-	-	10 U	160 U	330 U
4-Bromophenyl phenyl ether	ug/kg	16 U	-	-	-	14 U	54 U	110 U
4-Chloro-3-methylphenol	ug/kg	52 U	-	-	-	23 U	160 U	330 U
4-Chloroaniline	ug/kg	35 U	-	-	-	19 U	160 U	330 U
4-Chlorophenyl phenyl ether	ug/kg	16 U	-	-	-	14 U	54 U	110 U
4-Methylphenol	ug/kg	-	-	-	-	-	220 U	430 U
4-Nitroaniline	ug/kg	70 U	-	-	-	29 U	220 U	430 U
4-Nitrophenol	ug/kg	110 U	-	-	-	19 U	360 U	720 U
Acenaphthene	ug/kg	3.3 U	-	-	-	0.85 U	7.4	56
Acenaphthylene	ug/kg	4.7 U	-	-	-	6.9 J	25	45
Acetophenone	ug/kg	13 U	-	-	-	29 J	110 U	220 U
Anthracene	ug/kg	2.8 U	-	-	-	12	40	180
Atrazine	ug/kg	42 U	-	-	-	10 U	220 U	430 U
Benzaldehyde	ug/kg	27 U	-	-	-	30 J	110 U	220 U
Benzo(a)anthracene	ug/kg	11 J	-	-	-	37	240	760
Benzo(a)pyrene	ug/kg	11 U	-	-	-	30	270	660
Benzo(b)fluoranthene	ug/kg	14 J	-	-	-	53	350	850
Benzo(g,h,i)perylene	ug/kg	8.5 J	-	-	-	24	200	420
Benzo(k)fluoranthene	ug/kg	8.1 U	-	-	-	15	170	360
Biphenyl (1,1-Biphenyl)	ug/kg	20 U	-	-	-	14 J	54 U	110 U
bis(2-Chloroethoxy)methane	ug/kg	14 U	-	-	-	24 U	110 U	220 U
bis(2-Chloroethyl)ether	ug/kg	14 U	-	-	-	2.2 U	110 U	220 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	59 U	-	-	-	54 U	54 U	110 U
Butyl benzylphthalate (BBP)	ug/kg	26 U	-	-	-	11 U	54 U	110 U

Table 8

Summary of Analytical Results
Soil/Fill Samples - EU11
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-76**	**SS-77**	**SS-165-AS**	**SS-166-AS**	**TP-13**	**TT-11**	**TT-11**
Sample ID:		**SS-38443-103018-JC-076**	**SS-38443-103018-JC-077**	**SS-38443-103018-JC-165**	**SS-38443-103018-JC-166**	**S-38443-110117-BW-012**	**S-38443-100208-KMV-041**	**S-38443-100208-KMV-042**
Sample Date:		**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**11/1/2017**	**10/2/2008**	**10/2/2008**
Sample Depth:		**0-2 ft BGS**	**0.5-2.5 ft BGS**	**0.5-1 ft BGS**	**0.5-1 ft BGS**	**8-10 ft BGS**	**5 ft BGS**	**10 ft BGS**
Parameters	**Units**							
Caprolactam	ug/kg	87 U	-	-	-	41 U	360 U	720 U
Carbazole	ug/kg	22 U	-	-	-	30 U	54 U	78 J
Chrysene	ug/kg	17	-	-	-	54	250	770
Dibenz(a,h)anthracene	ug/kg	8.0 U	-	-	-	0.73 U	36	110
Dibenzofuran	ug/kg	24 J	-	-	-	12 J	54 U	110 U
Diethyl phthalate	ug/kg	36 U	-	-	-	18 U	54 U	110 U
Dimethyl phthalate	ug/kg	16 U	-	-	-	19 U	54 U	110 U
Di-n-butylphthalate (DBP)	ug/kg	26 U	-	-	-	17 U	54 U	110 U
Di-n-octyl phthalate (DnOP)	ug/kg	33 U	-	-	-	8.8 U	54 U	110 U
Fluoranthene	ug/kg	16 J	-	-	-	75	400	1500
Fluorene	ug/kg	3.2 U	-	-	-	8.5	9.8	59
Hexachlorobenzene	ug/kg	3.3 U	-	-	-	2.3 U	7.2 U	14 U
Hexachlorobutadiene	ug/kg	14 U	-	-	-	6.2 U	54 U	110 U
Hexachlorocyclopentadiene	ug/kg	72 U	-	-	-	9.0 U	360 U	720 U
Hexachloroethane	ug/kg	10 U	-	-	-	10 U	54 U	110 U
Indeno(1,2,3-cd)pyrene	ug/kg	8.6 U	-	-	-	17	190	390
Isophorone	ug/kg	14 U	-	-	-	14 U	54 U	110 U
Naphthalene	ug/kg	41	-	-	-	77	7.2 U	25
Nitrobenzene	ug/kg	15 U	-	-	-	2.4 U	110 U	220 U
N-Nitrosodi-n-propylamine	ug/kg	13 U	-	-	-	7.0 U	54 U	110 U
N-Nitrosodiphenylamine	ug/kg	14 U	-	-	-	23 U	54 U	110 U
Pentachlorophenol	ug/kg	67 UJ	-	-	-	10 U	160 U	330 U
Phenanthrene	ug/kg	60	-	-	-	87	130	850
Phenol	ug/kg	9.3 U	-	-	-	8.1 U	54 U	110 U
Pyrene	ug/kg	19	-	-	-	77	340	1300
Metals								
Aluminum	mg/kg	4500	-	-	-	4000 J	5640	6450
Antimony	mg/kg	0.23 J	-	-	-	0.30 J	6.5 UJ	1.7 J
Arsenic	mg/kg	8.1	-	-	-	11	5.8	10.6
Barium	mg/kg	240	-	-	-	69 J	35.6	88.3
Beryllium	mg/kg	0.62	-	-	-	0.83	0.21 J	0.34 J
Cadmium	mg/kg	0.61	-	-	-	0.24	0.54 U	0.74
Calcium	mg/kg	28000	-	-	-	33000	54000 J	28900 J
Chromium	mg/kg	12	-	-	-	26	7.9	18.8
Chromium III (trivalent)	mg/kg	12	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	0.60 J	-	-	-	-	-	-
Cobalt	mg/kg	6.2	-	-	-	6.6	3.7 J	7.4
Copper	mg/kg	25	-	-	-	51	12.1	325
Iron	mg/kg	12000	-	-	-	21000	10100	63700
Lead	mg/kg	51 J	-	-	-	31 J	15.8 J	132 J
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-
Magnesium	mg/kg	12000	-	-	-	4400	28100	11000
Manganese	mg/kg	550	-	-	-	470	225 J	734 J

Table 8

Summary of Analytical Results
Soil/Fill Samples - EU11
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-76**	**SS-77**	**SS-165-AS**	**SS-166-AS**	**TP-13**	**TT-11**	**TT-11**
Sample ID:		**SS-38443-103018-JC-076**	**SS-38443-103018-JC-077**	**SS-38443-103018-JC-165**	**SS-38443-103018-JC-166**	**S-38443-110117-BW-012**	**S-38443-100208-KMV-041**	**S-38443-100208-KMV-042**
Sample Date:		**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**11/1/2017**	**10/2/2008**	**10/2/2008**
Sample Depth:		**0-2 ft BGS**	**0.5-2.5 ft BGS**	**0.5-1 ft BGS**	**0.5-1 ft BGS**	**8-10 ft BGS**	**5 ft BGS**	**10 ft BGS**
Parameters	**Units**							
Mercury	mg/kg	0.18	-	-	-	0.082 J	0.047 J	0.36
Nickel	mg/kg	17	-	-	-	23 J	10.4	17.8
Potassium	mg/kg	700	-	-	-	310	542 J	783 J
Selenium	mg/kg	0.45 J	-	-	-	2.6	27.0 U	27.1 U
Silver	mg/kg	0.078 J	-	-	-	0.071 J	1.1 U	1.1 U
Sodium	mg/kg	78 J	-	-	-	170 U	101 J	543 U
Thallium	mg/kg	0.17 J	-	-	-	0.39 J	0.15 U	0.17 U
Vanadium	mg/kg	16	-	-	-	14	14.3 J	36.2 J
Zinc	mg/kg	93 J	-	-	-	40	36.2 J	298 J
PCBs								
Aroclor-1016 (PCB-1016)	ug/kg	25 U	-	-	-	26 U	36 U	36 U
Aroclor-1221 (PCB-1221)	ug/kg	27 U	-	-	-	25 U	36 U	36 U
Aroclor-1232 (PCB-1232)	ug/kg	26 U	-	-	-	18 U	36 U	36 U
Aroclor-1242 (PCB-1242)	ug/kg	22 U	-	-	-	22 U	36 U	36 U
Aroclor-1248 (PCB-1248)	ug/kg	27 U	-	-	-	19 U	36 U	36 U
Aroclor-1254 (PCB-1254)	ug/kg	26 U	-	-	-	33 J	36 U	20 J
Aroclor-1260 (PCB-1260)	ug/kg	25 U	-	-	-	20 U	36 U	36 U
Pesticides								
4,4'-DDD	ug/kg	17 U	-	-	-	36 U	92 U	92 U
4,4'-DDE	ug/kg	17 U	-	-	-	13 U	24 J	43 J
4,4'-DDT	ug/kg	13 U	-	-	-	15 U	92 UJ	92 UJ
Aldrin	ug/kg	8.7 U	-	-	-	26 U	92 U	92 U
alpha-BHC	ug/kg	10 U	-	-	-	18 U	92 U	92 U
alpha-Chlordane	ug/kg	17 U	-	-	-	42 U	92 U	92 U
beta-BHC	ug/kg	20 U	-	-	-	43 U	92 U	92 U
delta-BHC	ug/kg	19 U	-	-	-	14 U	92 U	92 U
Dieldrin	ug/kg	12 U	-	-	-	9.9 U	92 U	92 U
Endosulfan I	ug/kg	14 U	-	-	-	14 U	92 U	92 U
Endosulfan II	ug/kg	17 U	-	-	-	20 U	92 U	92 U
Endosulfan sulfate	ug/kg	15 U	-	-	-	13 U	92 U	92 U
Endrin	ug/kg	22 U	-	-	-	15 U	92 U	92 U
Endrin aldehyde	ug/kg	15 U	-	-	-	20 U	92 U	92 U
Endrin ketone	ug/kg	10 U	-	-	-	12 U	92 U	92 U
gamma-BHC (lindane)	ug/kg	20 U	-	-	-	32 U	92 U	92 U
gamma-Chlordane	ug/kg	14 U	-	-	-	16 U	29 J	92 U
Heptachlor	ug/kg	18 U	-	-	-	8.5 U	92 U	92 U
Heptachlor epoxide	ug/kg	16 U	-	-	-	26 U	92 U	92 U
Methoxychlor	ug/kg	74 U	-	-	-	13 U	180 UJ	180 UJ
Toxaphene	ug/kg	280 U	-	-	-	410 U	3600 U	3600 U
Herbicides								
2,4,5-T	ug/kg	-	16 U	-	-	-	-	-
2,4,5-TP (Silvex)	ug/kg	-	17 U	-	-	-	22 U	22 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	-	61 U	-	-	-	87 UJ	87 UJ

Table 8

Summary of Analytical Results
Soil/Fill Samples - EU11
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-76**	**SS-77**	**SS-165-AS**	**SS-166-AS**	**TP-13**	**TT-11**	**TT-11**
Sample ID:		**SS-38443-103018-JC-076**	**SS-38443-103018-JC-077**	**SS-38443-103018-JC-165**	**SS-38443-103018-JC-166**	**S-38443-110117-BW-012**	**S-38443-100208-KMV-041**	**S-38443-100208-KMV-042**
Sample Date:		**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**11/1/2017**	**10/2/2008**	**10/2/2008**
Sample Depth:		**0-2 ft BGS**	**0.5-2.5 ft BGS**	**0.5-1 ft BGS**	**0.5-1 ft BGS**	**8-10 ft BGS**	**5 ft BGS**	**10 ft BGS**
Parameters	**Units**							
Dioxin/Furans								
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	9.4 U	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	150	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	7.1	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	27	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	0.23 U	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	1.2 J	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	0.51 J	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	0.85 J	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	4.5 J	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	0.15 U	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	2.3 J	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	0.27 J	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	0.66 J	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	0.63 J	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	0.39 J	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	1.1	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	0.17 J	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	18 J	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	51 J	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	14 J	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	32 J	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	12 J	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	31 J	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	19 J	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	2.6 J	-	-
Asbestos								
Asbestos	%	-	-	ND	ND	-	-	-
Chrysotile asbestos	%	-	-	-	-	-	-	-
General Chemistry								
Cyanide (total)	mg/kg	0.22 J	-	-	-	0.50 U	0.54 U	0.54 U
Total solids	%	-	-	-	-	-	92.5	92.2

Notes
J - Estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 8

Summary of Analytical Results
Soil/Fill Samples - EU11
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-11**	**TT-12**	**TT-12**	**TT-12**
Sample ID:		**S-38443-100208-KMV-043**	**S-38443-100208-KMV-038**	**S-38443-100208-KMV-039**	**S-38443-100208-KMV-040**
Sample Date:		**10/2/2008**	**10/2/2008**	**10/2/2008**	**10/2/2008**
Sample Depth:		**21 ft BGS**	**5 ft BGS**	**10 ft BGS**	**21 ft BGS**
Parameters	**Units**				
Volatiles					
1,1,1-Trichloroethane	ug/kg	4.7 U	4.4 U	4.2 U	4.0 U
1,1,2,2-Tetrachloroethane	ug/kg	4.7 U	4.4 U	4.2 U	4.0 U
1,1,2-Trichloroethane	ug/kg	4.7 U	4.4 U	4.2 U	4.0 U
1,1-Dichloroethane	ug/kg	4.7 U	4.4 U	4.2 U	4.0 U
1,1-Dichloroethene	ug/kg	4.7 U	4.4 U	4.2 U	4.0 U
1,2,4-Trichlorobenzene	ug/kg	4.7 U	4.4 U	4.2 U	4.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	9.4 U	8.9 U	8.5 U	8.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	4.7 U	4.4 U	4.2 U	4.0 U
1,2-Dichlorobenzene	ug/kg	4.7 U	4.4 U	4.2 U	4.0 U
1,2-Dichloroethane	ug/kg	4.7 U	4.4 U	4.2 U	4.0 U
1,2-Dichloropropane	ug/kg	4.7 U	4.4 U	4.2 U	4.0 U
1,3-Dichlorobenzene	ug/kg	4.7 U	4.4 U	4.2 U	4.0 U
1,4-Dichlorobenzene	ug/kg	4.7 U	4.4 U	4.2 U	4.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	19 U	18 U	17 U	16 U
2-Hexanone	ug/kg	19 U	18 U	17 U	16 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	19 U	18 U	17 U	16 U
Acetone	ug/kg	R	R	17 U	16 U
Benzene	ug/kg	4.7 U	4.4 U	4.2 U	4.0 U
Bromodichloromethane	ug/kg	4.7 U	4.4 U	4.2 U	4.0 U
Bromoform	ug/kg	4.7 U	4.4 U	4.2 U	4.0 U
Bromomethane (Methyl bromide)	ug/kg	4.7 U	4.4 U	4.2 U	4.0 U
Carbon disulfide	ug/kg	4.7 U	4.4 U	4.2 U	4.0 U
Carbon tetrachloride	ug/kg	4.7 U	4.4 U	4.2 U	4.0 U
Chlorobenzene	ug/kg	4.7 U	4.4 U	4.2 U	0.57 J
Chloroethane	ug/kg	4.7 U	4.4 U	4.2 U	4.0 U
Chloroform (Trichloromethane)	ug/kg	4.7 U	4.4 U	4.2 U	4.0 U
Chloromethane (Methyl chloride)	ug/kg	4.7 U	4.4 U	4.2 U	4.0 U
cis-1,2-Dichloroethene	ug/kg	4.7 U	4.4 U	4.2 U	0.30 J
cis-1,3-Dichloropropene	ug/kg	4.7 U	4.4 U	4.2 U	4.0 U
Cyclohexane	ug/kg	9.4 U	8.9 U	8.5 U	8.0 U
Dibromochloromethane	ug/kg	4.7 U	4.4 U	4.2 U	4.0 U
Dichlorodifluoromethane (CFC-12)	ug/kg	4.7 U	4.4 U	4.2 U	4.0 U
Ethylbenzene	ug/kg	4.7 U	4.4 U	4.2 U	4.0 U
Isopropyl benzene	ug/kg	4.7 U	4.4 U	4.2 U	4.0 U
Methyl acetate	ug/kg	9.4 U	8.9 U	8.5 U	8.0 U
Methyl cyclohexane	ug/kg	9.4 U	8.9 U	8.5 U	8.0 U
Methyl tert butyl ether (MTBE)	ug/kg	19 U	18 U	17 U	16 U
Methylene chloride	ug/kg	0.65 J	4.4 U	4.2 U	4.0 U
Styrene	ug/kg	4.7 U	4.4 U	4.2 U	4.0 U
Tetrachloroethene	ug/kg	4.7 U	4.4 U	4.2 U	4.0 U
Toluene	ug/kg	4.7 U	4.4 U	4.2 U	0.75 J
trans-1,2-Dichloroethene	ug/kg	4.7 U	4.4 U	4.2 U	4.0 U
trans-1,3-Dichloropropene	ug/kg	4.7 U	4.4 U	4.2 U	4.0 U
Trichloroethene	ug/kg	10	4.4 U	4.2 U	1.1 J
Trichlorofluoromethane (CFC-11)	ug/kg	4.7 U	4.4 U	4.2 U	4.0 U

Table 8

Summary of Analytical Results
Soil/Fill Samples - EU11
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-11**	**TT-12**	**TT-12**	**TT-12**
Sample ID:		**S-38443-100208-KMV-043**	**S-38443-100208-KMV-038**	**S-38443-100208-KMV-039**	**S-38443-100208-KMV-040**
Sample Date:		**10/2/2008**	**10/2/2008**	**10/2/2008**	**10/2/2008**
Sample Depth:		**21 ft BGS**	**5 ft BGS**	**10 ft BGS**	**21 ft BGS**
Parameters	**Units**				
Trifluorotrichloroethane (CFC-113)	ug/kg	4.7 U	4.4 U	4.2 U	4.0 U
Vinyl chloride	ug/kg	4.7 U	4.4 U	4.2 U	4.0 U
Xylenes (total)	ug/kg	9.4 U	8.9 U	1.0 J	8.0 U
Semi-Volatiles					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	110 U	110 U	110 U	110 U
2,4,5-Trichlorophenol	ug/kg	160 U	170 U	160 U	170 U
2,4,6-Trichlorophenol	ug/kg	160 U	170 U	160 U	170 U
2,4-Dichlorophenol	ug/kg	160 U	170 U	160 U	170 U
2,4-Dimethylphenol	ug/kg	160 U	170 U	160 U	170 U
2,4-Dinitrophenol	ug/kg	360 U	370 U	360 U	370 U
2,4-Dinitrotoluene	ug/kg	220 U	220 U	220 U	220 U
2,6-Dinitrotoluene	ug/kg	220 U	220 U	220 U	220 U
2-Chloronaphthalene	ug/kg	54 U	55 U	54 U	55 U
2-Chlorophenol	ug/kg	54 U	55 U	54 U	55 U
2-Methylnaphthalene	ug/kg	7.2 U	7.4 U	7.2 U	7.4 U
2-Methylphenol	ug/kg	220 U	220 U	220 U	220 U
2-Nitroaniline	ug/kg	220 U	220 U	220 U	220 U
2-Nitrophenol	ug/kg	54 U	55 U	54 U	55 U
3&4-Methylphenol	ug/kg	-	-	-	-
3,3'-Dichlorobenzidine	ug/kg	110 U	110 U	110 U	110 U
3-Nitroaniline	ug/kg	220 U	220 U	220 U	220 U
4,6-Dinitro-2-methylphenol	ug/kg	160 U	170 U	160 U	170 U
4-Bromophenyl phenyl ether	ug/kg	54 U	55 U	54 U	55 U
4-Chloro-3-methylphenol	ug/kg	160 U	170 U	160 U	170 U
4-Chloroaniline	ug/kg	160 U	170 U	160 U	170 U
4-Chlorophenyl phenyl ether	ug/kg	54 U	55 U	54 U	55 U
4-Methylphenol	ug/kg	220 U	220 U	220 U	220 U
4-Nitroaniline	ug/kg	220 U	220 U	220 U	220 U
4-Nitrophenol	ug/kg	360 U	370 U	360 U	370 U
Acenaphthene	ug/kg	7.2 U	7.4 U	7.2 U	7.4 U
Acenaphthylene	ug/kg	7.2 U	7.4 U	7.2 U	7.4 U
Acetophenone	ug/kg	110 U	110 U	110 U	110 U
Anthracene	ug/kg	7.2 U	7.4 U	7.2 U	7.4 U
Atrazine	ug/kg	220 U	220 U	220 U	220 U
Benzaldehyde	ug/kg	110 U	110 U	110 U	110 U
Benzo(a)anthracene	ug/kg	7.2 U	14	35	15
Benzo(a)pyrene	ug/kg	7.2 U	13	36	14
Benzo(b)fluoranthene	ug/kg	7.2 U	15	39	18
Benzo(g,h,i)perylene	ug/kg	7.2 U	14	21	11
Benzo(k)fluoranthene	ug/kg	7.2 U	7.6	18	7.7
Biphenyl (1,1-Biphenyl)	ug/kg	54 U	55 U	54 U	55 U
bis(2-Chloroethoxy)methane	ug/kg	110 U	110 U	110 U	110 U
bis(2-Chloroethyl)ether	ug/kg	110 U	110 U	110 U	110 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	54 U	55 U	54 U	55 U
Butyl benzylphthalate (BBP)	ug/kg	54 U	55 U	54 U	55 U

Table 8

Summary of Analytical Results
Soil/Fill Samples - EU11
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-11**	**TT-12**	**TT-12**	**TT-12**
Sample ID:		**S-38443-100208-KMV-043**	**S-38443-100208-KMV-038**	**S-38443-100208-KMV-039**	**S-38443-100208-KMV-040**
Sample Date:		**10/2/2008**	**10/2/2008**	**10/2/2008**	**10/2/2008**
Sample Depth:		**21 ft BGS**	**5 ft BGS**	**10 ft BGS**	**21 ft BGS**
Parameters	**Units**				
Caprolactam	ug/kg	360 U	370 U	360 U	370 U
Carbazole	ug/kg	54 U	55 U	54 U	55 U
Chrysene	ug/kg	7.2 U	13	32	15
Dibenz(a,h)anthracene	ug/kg	7.2 U	7.4 U	7.2 U	7.4 U
Dibenzofuran	ug/kg	54 U	55 U	54 U	55 U
Diethyl phthalate	ug/kg	54 U	55 U	54 U	55 U
Dimethyl phthalate	ug/kg	54 U	55 U	54 U	55 U
Di-n-butylphthalate (DBP)	ug/kg	54 U	55 U	54 U	55 U
Di-n-octyl phthalate (DnOP)	ug/kg	54 U	55 U	54 U	55 U
Fluoranthene	ug/kg	7.2 U	24	43	25
Fluorene	ug/kg	7.2 U	7.4 U	7.2 U	7.4 U
Hexachlorobenzene	ug/kg	7.2 U	7.4 U	7.2 U	7.4 U
Hexachlorobutadiene	ug/kg	54 U	55 U	54 U	55 U
Hexachlorocyclopentadiene	ug/kg	360 U	370 U	360 U	370 U
Hexachloroethane	ug/kg	54 U	55 U	54 U	55 U
Indeno(1,2,3-cd)pyrene	ug/kg	7.2 U	8.8	20	8.8
Isophorone	ug/kg	54 U	55 U	54 U	55 U
Naphthalene	ug/kg	7.2 U	7.4 U	7.2 U	7.4 U
Nitrobenzene	ug/kg	110 U	110 U	110 U	110 U
N-Nitrosodi-n-propylamine	ug/kg	54 U	55 U	54 U	55 U
N-Nitrosodiphenylamine	ug/kg	54 U	55 U	54 U	55 U
Pentachlorophenol	ug/kg	160 U	170 U	160 U	170 U
Phenanthrene	ug/kg	7.2 U	11	15	13
Phenol	ug/kg	54 U	55 U	54 U	55 U
Pyrene	ug/kg	7.2 U	21	40	24
Metals					
Aluminum	mg/kg	1420	5330	1980	1240
Antimony	mg/kg	6.5 UJ	6.7 UJ	6.5 UJ	6.6 UJ
Arsenic	mg/kg	3.2	6.0	3.9	2.7
Barium	mg/kg	12.7 J	68.5	37.6	15.1 J
Beryllium	mg/kg	0.54 U	0.22 J	0.12 J	0.051 J
Cadmium	mg/kg	0.54 U	0.18 J	0.099 J	0.057 J
Calcium	mg/kg	162000 J	54800 J	88900 J	74800 J
Chromium	mg/kg	3.2	8.2	3.8	2.4
Chromium III (trivalent)	mg/kg	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-
Cobalt	mg/kg	1.7 J	4.0 J	2.3 J	1.5 J
Copper	mg/kg	6.0	13.8	9.4	7.6
Iron	mg/kg	4640	11700	6020	4060
Lead	mg/kg	2.5 J	27.2 J	16.5 J	6.3 J
Lead - coarse fraction	mg/kg	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-
Magnesium	mg/kg	52800	27500	31900	30300
Manganese	mg/kg	208 J	271 J	164 J	101 J

Table 8

Summary of Analytical Results
Soil/Fill Samples - EU11
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-11**	**TT-12**	**TT-12**	**TT-12**
Sample ID:		**S-38443-100208-KMV-043**	**S-38443-100208-KMV-038**	**S-38443-100208-KMV-039**	**S-38443-100208-KMV-040**
Sample Date:		**10/2/2008**	**10/2/2008**	**10/2/2008**	**10/2/2008**
Sample Depth:		**21 ft BGS**	**5 ft BGS**	**10 ft BGS**	**21 ft BGS**
Parameters	**Units**				
Mercury	mg/kg	0.11 U	0.12	0.087 J	0.063 J
Nickel	mg/kg	4.2 J	11.6	6.0	4.0 J
Potassium	mg/kg	346 J	939 J	437 J	250 J
Selenium	mg/kg	27.0 U	27.7 U	27.1 U	27.7 U
Silver	mg/kg	1.1 U	1.1 U	1.1 U	1.1 U
Sodium	mg/kg	145 J	883	683	291 J
Thallium	mg/kg	0.11 U	0.17 U	0.11 U	0.11 U
Vanadium	mg/kg	5.5 J	14.0 J	6.4 J	4.6 J
Zinc	mg/kg	17.2 J	54.6 J	26.4 J	16.4 J
PCBs					
Aroclor-1016 (PCB-1016)	ug/kg	36 U	37 U	36 U	37 U
Aroclor-1221 (PCB-1221)	ug/kg	36 U	37 U	36 U	37 U
Aroclor-1232 (PCB-1232)	ug/kg	36 U	37 U	36 U	37 U
Aroclor-1242 (PCB-1242)	ug/kg	36 U	37 U	36 U	37 U
Aroclor-1248 (PCB-1248)	ug/kg	36 U	37 U	36 U	37 U
Aroclor-1254 (PCB-1254)	ug/kg	36 U	37 U	36 U	37 U
Aroclor-1260 (PCB-1260)	ug/kg	36 U	37 U	36 U	37 U
Pesticides					
4,4'-DDD	ug/kg	9.2 U	19 U	18 U	9.4 U
4,4'-DDE	ug/kg	9.2 U	19 U	18 U	9.4 U
4,4'-DDT	ug/kg	9.2 UJ	19 UJ	18 UJ	9.4 UJ
Aldrin	ug/kg	9.2 U	19 U	18 U	9.4 U
alpha-BHC	ug/kg	9.2 U	19 U	18 U	9.4 U
alpha-Chlordane	ug/kg	9.2 U	19 U	18 U	9.4 U
beta-BHC	ug/kg	9.2 U	19 U	18 U	9.4 U
delta-BHC	ug/kg	9.2 U	19 U	18 U	9.4 U
Dieldrin	ug/kg	9.2 U	19 U	18 U	9.4 U
Endosulfan I	ug/kg	9.2 U	19 U	18 U	9.4 U
Endosulfan II	ug/kg	9.2 U	19 U	18 U	9.4 U
Endosulfan sulfate	ug/kg	9.2 U	19 U	18 U	9.4 U
Endrin	ug/kg	9.2 U	19 U	18 U	9.4 U
Endrin aldehyde	ug/kg	9.2 U	19 U	18 U	9.4 U
Endrin ketone	ug/kg	9.2 U	19 U	18 U	9.4 U
gamma-BHC (lindane)	ug/kg	9.2 U	19 U	18 U	9.4 U
gamma-Chlordane	ug/kg	9.2 U	19 U	18 U	9.4 U
Heptachlor	ug/kg	9.2 U	19 U	18 U	9.4 U
Heptachlor epoxide	ug/kg	9.2 U	19 U	18 U	9.4 U
Methoxychlor	ug/kg	18 UJ	37 UJ	36 UJ	18 UJ
Toxaphene	ug/kg	360 U	740 U	730 U	370 U
Herbicides					
2,4,5-T	ug/kg	-	-	-	-
2,4,5-TP (Silvex)	ug/kg	22 U	22 U	22 U	22 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	87 UJ	89 UJ	87 UJ	89 UJ

Table 8

Summary of Analytical Results
Soil/Fill Samples - EU11
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-11**	**TT-12**	**TT-12**	**TT-12**
Sample ID:		**S-38443-100208-KMV-043**	**S-38443-100208-KMV-038**	**S-38443-100208-KMV-039**	**S-38443-100208-KMV-040**
Sample Date:		**10/2/2008**	**10/2/2008**	**10/2/2008**	**10/2/2008**
Sample Depth:		**21 ft BGS**	**5 ft BGS**	**10 ft BGS**	**21 ft BGS**
Parameters	**Units**				
Dioxin/Furans					
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-
Asbestos					
Asbestos	%	-	-	-	-
Chrysotile asbestos	%	-	-	-	-
General Chemistry					
Cyanide (total)	mg/kg	0.54 U	0.55 U	0.51 J	0.55 U
Total solids	%	92.5	90.2	92.2	90.3

Notes
J - Estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 9

Summary of Analytical Results
Soil/Fill Samples - EU12
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH83-13**	**BH83-13**	**BH84-13**	**BH84-13**	**BH111-18**	**BH112-17**	**BH113-18**
Sample ID:		**S-38443-062413-SM-030**	**S-38443-062413-SM-041**	**S-38443-062613-JT-048**	**S-38443-062613-JT-049**	**S-38443-011118-JC-042**	**S-38443-121917-JC-014**	**S-38443-010318-JC-026**
Sample Date:		**6/24/2013**	**6/24/2013**	**6/26/2013**	**6/26/2013**	**1/11/2018**	**12/19/2017**	**1/3/2018**
Sample Depth:		**5-7.5 ft BGS**	**20.2-22.2 ft BGS**	**2-4 ft BGS**	**19-21 ft BGS**	**7.5-9.5 ft BGS**	**13-15 ft BGS**	**9-11 ft BGS**
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/kg	5.3 U	6.4 U	4.9 U	5.2 U	0.24 U	0.25 U	0.21 U
1,1,2,2-Tetrachloroethane	ug/kg	5.3 UJ	6.4 UJ	4.9 U	5.2 U	0.27 U	0.28 UJ	0.23 U
1,1,2-Trichloroethane	ug/kg	5.3 U	6.4 U	4.9 U	5.2 U	0.40 U	0.42 U	0.35 U
1,1-Dichloroethane	ug/kg	5.3 U	6.4 U	1.9 J	5.2 U	0.34 U	0.36 U	0.30 U
1,1-Dichloroethene	ug/kg	5.3 U	6.4 U	4.9 U	5.2 U	0.56 U	0.58 U	0.49 U
1,2,4-Trichlorobenzene	ug/kg	5.3 UJ	6.4 UJ	4.9 U	5.2 U	0.25 U	0.26 UJ	0.22 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	11 UJ	13 UJ	9.8 UJ	10 UJ	0.70 U	0.73 UJ	0.61 U
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	5.3 U	6.4 U	4.9 U	5.2 U	0.36 U	0.38 U	0.31 U
1,2-Dichlorobenzene	ug/kg	5.3 UJ	6.4 UJ	4.9 U	5.2 U	0.23 U	0.24 UJ	0.20 U
1,2-Dichloroethane	ug/kg	5.3 U	6.4 U	4.9 U	5.2 U	0.30 U	0.31 U	0.26 U
1,2-Dichloropropane	ug/kg	5.3 U	6.4 U	4.9 U	5.2 U	0.32 U	0.33 U	0.28 U
1,3-Dichlorobenzene	ug/kg	5.3 UJ	6.4 UJ	4.9 U	5.2 U	0.30 U	0.31 UJ	0.26 U
1,4-Dichlorobenzene	ug/kg	5.3 UJ	6.4 UJ	4.9 U	5.2 U	0.36 U	0.38 UJ	0.31 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	9.8 J	16 J	6.1 J	21 U	1.3 U	12 U	1.1 U
2-Hexanone	ug/kg	21 U	26 U	20 U	21 U	0.60 U	0.63 U	0.52 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	21 U	26 U	20 U	21 U	0.92 U	0.96 U	0.80 U
Acetone	ug/kg	94 U	81 U	39 U	21 U	3.2 U	55 J	2.8 U
Benzene	ug/kg	0.32 J	1.6 J	4.9 U	5.2 U	0.33 U	0.98 J	0.29 U
Bromodichloromethane	ug/kg	5.3 U	6.4 U	4.9 U	5.2 U	0.34 U	0.36 U	0.30 U
Bromoform	ug/kg	5.3 U	6.4 U	4.9 U	5.2 U	0.41 U	0.43 U	0.36 U
Bromomethane (Methyl bromide)	ug/kg	5.3 UJ	6.4 UJ	4.9 U	5.2 U	0.61 U	0.64 U	0.53 U
Carbon disulfide	ug/kg	2.8 J	0.58 J	4.9 U	5.2 U	0.22 U	1.2 J	0.19 U
Carbon tetrachloride	ug/kg	5.3 U	6.4 U	4.9 U	5.2 U	0.26 U	0.27 U	0.22 U
Chlorobenzene	ug/kg	5.3 U	2.1 J	1.4 J	5.2 U	0.34 U	0.36 U	0.30 U
Chloroethane	ug/kg	5.3 UJ	6.4 UJ	4.9 U	5.2 U	0.39 U	0.41 U	0.34 U
Chloroform (Trichloromethane)	ug/kg	0.34 J	6.4 U	4.9 U	5.2 U	0.24 U	0.25 U	0.21 U
Chloromethane (Methyl chloride)	ug/kg	5.3 U	6.4 U	4.9 U	5.2 U	0.39 U	0.41 U	0.34 U
cis-1,2-Dichloroethene	ug/kg	5.3 U	6.4 U	4.9 U	5.2 U	0.29 U	0.79 J	0.25 U
cis-1,3-Dichloropropene	ug/kg	5.3 U	6.4 U	4.9 U	5.2 U	0.27 U	0.28 U	0.23 U
Cyclohexane	ug/kg	11 U	1.1 J	9.8 U	10 U	0.36 J	0.37 J	0.19 U
Dibromochloromethane	ug/kg	5.3 U	6.4 U	4.9 U	5.2 U	0.31 U	0.32 U	0.27 U
Dichlorodifluoromethane (CFC-12)	ug/kg	5.3 U	6.4 U	4.9 U	5.2 U	0.36 U	0.38 U	0.31 U
Ethylbenzene	ug/kg	1.4 J	6.4 U	0.95 J	5.2 U	0.28 U	0.37 J	0.24 U
Isopropyl benzene	ug/kg	5.3 U	6.4 U	4.9 U	5.2 U	0.21 U	1.3 J	0.18 U
Methyl acetate	ug/kg	11 U	13 U	9.8 U	10 U	1.2 U	1.3 U	1.1 U
Methyl cyclohexane	ug/kg	11 U	2.7 J	9.8 U	10 U	0.42 J	0.83 J	0.21 U
Methyl tert butyl ether (MTBE)	ug/kg	5.3 U	6.4 U	4.9 U	5.2 U	0.28 U	0.29 U	0.24 U
Methylene chloride	ug/kg	16 U	21 U	7.7 U	7.9 U	16 U	0.26 U	0.63 U
Styrene	ug/kg	5.3 U	6.4 U	4.9 U	5.2 U	0.28 U	0.29 U	0.24 U
Tetrachloroethene	ug/kg	5.3 U	6.4 U	4.9 U	5.2 U	0.38 U	0.40 U	0.33 U
Toluene	ug/kg	5.3 U	6.4 U	4.9 U	0.51 J	0.36 J	0.52 J	0.31 U
trans-1,2-Dichloroethene	ug/kg	5.3 U	6.4 U	4.9 U	5.2 U	0.39 U	0.41 U	0.34 U
trans-1,3-Dichloropropene	ug/kg	5.3 U	6.4 U	4.9 U	5.2 U	0.22 U	0.23 U	0.19 U
Trichloroethene	ug/kg	5.3 U	6.4 U	4.9 U	0.47 J	12	0.44 U	0.37 U
Trichlorofluoromethane (CFC-11)	ug/kg	5.3 U	6.4 U	4.9 U	5.2 U	0.25 U	0.26 U	0.22 U

Table 9

Summary of Analytical Results
Soil/Fill Samples - EU12
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH83-13**	**BH83-13**	**BH84-13**	**BH84-13**	**BH111-18**	**BH112-17**	**BH113-18**
Sample ID:		**S-38443-062413-SM-030**	**S-38443-062413-SM-041**	**S-38443-062613-JT-048**	**S-38443-062613-JT-049**	**S-38443-011118-JC-042**	**S-38443-121917-JC-014**	**S-38443-010318-JC-026**
Sample Date:		**6/24/2013**	**6/24/2013**	**6/26/2013**	**6/26/2013**	**1/11/2018**	**12/19/2017**	**1/3/2018**
Sample Depth:		**5-7.5 ft BGS**	**20.2-22.2 ft BGS**	**2-4 ft BGS**	**19-21 ft BGS**	**7.5-9.5 ft BGS**	**13-15 ft BGS**	**9-11 ft BGS**
Parameters	**Units**							
Trifluorotrichloroethane (CFC-113)	ug/kg	5.3 U	6.4 U	4.9 U	5.2 U	0.51 U	0.53 U	0.44 U
Vinyl chloride	ug/kg	5.3 U	6.4 U	1.7 J	5.2 U	0.29 U	0.30 U	0.25 U
Xylenes (total)	ug/kg	11 U	4.0 J	1.2 J	10 U	0.41 U	1.4 J	0.36 U
Semi-Volatiles								
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	-	-	-	-	23 U	29 U	11 U
2,4,5-Trichlorophenol	ug/kg	-	-	-	-	62 U	77 U	29 U
2,4,6-Trichlorophenol	ug/kg	-	-	-	-	22 U	27 U	10 U
2,4-Dichlorophenol	ug/kg	-	-	-	-	49 U	62 U	23 U
2,4-Dimethylphenol	ug/kg	-	-	-	-	49 U	62 U	23 U
2,4-Dinitrophenol	ug/kg	-	-	-	-	52 U	65 U	24 U
2,4-Dinitrotoluene	ug/kg	-	-	-	-	42 U	52 U	20 U
2,6-Dinitrotoluene	ug/kg	-	-	-	-	52 U	65 U	24 U
2-Chloronaphthalene	ug/kg	-	-	-	-	1.1 U	1.4 U	0.52 U
2-Chlorophenol	ug/kg	-	-	-	-	20 U	25 U	9.4 U
2-Methylnaphthalene	ug/kg	-	-	-	-	39	270	0.57 U
2-Methylphenol	ug/kg	-	-	-	-	27 U	34 U	13 U
2-Nitroaniline	ug/kg	-	-	-	-	23 U	28 U	10 U
2-Nitrophenol	ug/kg	-	-	-	-	21 U	26 U	9.5 U
3&4-Methylphenol	ug/kg	-	-	-	-	49 U	91 J	23 U
3,3'-Dichlorobenzidine	ug/kg	-	-	-	-	45 U	55 U	21 U
3-Nitroaniline	ug/kg	-	-	-	-	40 U	49 U	18 U
4,6-Dinitro-2-methylphenol	ug/kg	-	-	-	-	23 U	28 U	11 U
4-Bromophenyl phenyl ether	ug/kg	-	-	-	-	32 U	40 U	15 U
4-Chloro-3-methylphenol	ug/kg	-	-	-	-	52 U	65 U	24 U
4-Chloroaniline	ug/kg	-	-	-	-	42 U	52 U	20 U
4-Chlorophenyl phenyl ether	ug/kg	-	-	-	-	32 U	40 U	15 U
4-Methylphenol	ug/kg	-	-	-	-	-	-	-
4-Nitroaniline	ug/kg	-	-	-	-	64 U	80 U	30 U
4-Nitrophenol	ug/kg	-	-	-	-	42 U	52 U	20 U
Acenaphthene	ug/kg	-	-	-	-	38	50	0.87 U
Acenaphthylene	ug/kg	-	-	-	-	34	1.1 U	4.3 J
Acetophenone	ug/kg	-	-	-	-	23 U	56 J	11 U
Anthracene	ug/kg	-	-	-	-	240	40	0.90 U
Atrazine	ug/kg	-	-	-	-	23 U	28 U	10 U
Benzaldehyde	ug/kg	-	-	-	-	30 U	47 J	14 U
Benzo(a)anthracene	ug/kg	-	-	-	-	860	15 J	14
Benzo(a)pyrene	ug/kg	-	-	-	-	770	2.0 U	16
Benzo(b)fluoranthene	ug/kg	-	-	-	-	1100	1.8 U	23
Benzo(g,h,i)perylene	ug/kg	-	-	-	-	250	1.1 U	13
Benzo(k)fluoranthene	ug/kg	-	-	-	-	480	2.1 U	8.5
Biphenyl (1,1-Biphenyl)	ug/kg	-	-	-	-	8.7 U	86 J	4.0 U
bis(2-Chloroethoxy)methane	ug/kg	-	-	-	-	54 U	68 U	25 U
bis(2-Chloroethyl)ether	ug/kg	-	-	-	-	4.9 U	6.2 U	2.3 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	-	-	-	-	620	140 J	51 U
Butyl benzylphthalate (BBP)	ug/kg	-	-	-	-	25 U	31 U	11 U

Table 9

Summary of Analytical Results
Soil/Fill Samples - EU12
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH83-13**	**BH83-13**	**BH84-13**	**BH84-13**	**BH111-18**	**BH112-17**	**BH113-18**
Sample ID:		**S-38443-062413-SM-030**	**S-38443-062413-SM-041**	**S-38443-062613-JT-048**	**S-38443-062613-JT-049**	**S-38443-011118-JC-042**	**S-38443-121917-JC-014**	**S-38443-010318-JC-026**
Sample Date:		**6/24/2013**	**6/24/2013**	**6/26/2013**	**6/26/2013**	**1/11/2018**	**12/19/2017**	**1/3/2018**
Sample Depth:		**5-7.5 ft BGS**	**20.2-22.2 ft BGS**	**2-4 ft BGS**	**19-21 ft BGS**	**7.5-9.5 ft BGS**	**13-15 ft BGS**	**9-11 ft BGS**
Parameters	**Units**							
Caprolactam	ug/kg	-	-	-	-	91 U	110 U	42 U
Carbazole	ug/kg	-	-	-	-	67 U	83 U	31 U
Chrysene	ug/kg	-	-	-	-	870	30	16
Dibenz(a,h)anthracene	ug/kg	-	-	-	-	60	2.0 U	0.76 U
Dibenzofuran	ug/kg	-	-	-	-	26 J	49 J	0.76 U
Diethyl phthalate	ug/kg	-	-	-	-	42 J	49 U	56 U
Dimethyl phthalate	ug/kg	-	-	-	-	42 U	52 U	20 U
Di-n-butylphthalate (DBP)	ug/kg	-	-	-	-	37 U	50 J	26 J
Di-n-octyl phthalate (DnOP)	ug/kg	-	-	-	-	20 U	24 U	9.1 U
Fluoranthene	ug/kg	-	-	-	-	1800	55	26
Fluorene	ug/kg	-	-	-	-	51	100	0.61 U
Hexachlorobenzene	ug/kg	-	-	-	-	5.2 U	6.5 U	2.4 U
Hexachlorobutadiene	ug/kg	-	-	-	-	14 U	17 U	6.4 U
Hexachlorocyclopentadiene	ug/kg	-	-	-	-	20 U	25 U	9.3 U
Hexachloroethane	ug/kg	-	-	-	-	22 U	28 U	10 U
Indeno(1,2,3-cd)pyrene	ug/kg	-	-	-	-	260	1.1 U	11
Isophorone	ug/kg	-	-	-	-	32 U	40 U	15 U
Naphthalene	ug/kg	-	-	-	-	39	240	0.94 U
Nitrobenzene	ug/kg	-	-	-	-	5.4 U	6.8 U	2.5 U
N-Nitrosodi-n-propylamine	ug/kg	-	-	-	-	16 U	19 U	7.2 U
N-Nitrosodiphenylamine	ug/kg	-	-	-	-	52 U	65 U	24 U
Pentachlorophenol	ug/kg	-	-	-	-	23 U	28 U	10 U
Phenanthrene	ug/kg	-	-	-	-	740	200	14
Phenol	ug/kg	-	-	-	-	18 U	23 U	8.4 U
Pyrene	ug/kg	-	-	-	-	1400	92	22
Metals								
Aluminum	mg/kg	-	-	-	-	10000 J	2000	9000 J
Antimony	mg/kg	-	-	-	-	2.1 J	1.2	0.48 J
Arsenic	mg/kg	-	-	-	-	13	4.4	7.5
Barium	mg/kg	-	-	-	-	220 J	26	68
Beryllium	mg/kg	-	-	-	-	0.90	0.11 J	0.51
Cadmium	mg/kg	-	-	-	-	2.1	1.5	0.20
Calcium	mg/kg	-	-	-	-	36000	2600	33000
Chromium	mg/kg	-	-	-	-	22	83	16
Chromium III (trivalent)	mg/kg	-	-	-	-	22	83	16
Chromium VI (hexavalent)	mg/kg	-	-	-	-	1.5 U	0.30 U	1.4 U
Cobalt	mg/kg	-	-	-	-	7.1	3.2	6.8
Copper	mg/kg	-	-	-	-	220	52	12 J
Iron	mg/kg	-	-	-	-	23000	38000	17000
Lead	mg/kg	-	-	-	-	180	34	12
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-
Magnesium	mg/kg	-	-	-	-	18000	910	17000
Manganese	mg/kg	-	-	-	-	750	2600	500

Table 9

Summary of Analytical Results
Soil/Fill Samples - EU12
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH83-13**	**BH83-13**	**BH84-13**	**BH84-13**	**BH111-18**	**BH112-17**	**BH113-18**
Sample ID:		**S-38443-062413-SM-030**	**S-38443-062413-SM-041**	**S-38443-062613-JT-048**	**S-38443-062613-JT-049**	**S-38443-011118-JC-042**	**S-38443-121917-JC-014**	**S-38443-010318-JC-026**
Sample Date:		**6/24/2013**	**6/24/2013**	**6/26/2013**	**6/26/2013**	**1/11/2018**	**12/19/2017**	**1/3/2018**
Sample Depth:		**5-7.5 ft BGS**	**20.2-22.2 ft BGS**	**2-4 ft BGS**	**19-21 ft BGS**	**7.5-9.5 ft BGS**	**13-15 ft BGS**	**9-11 ft BGS**
Parameters	**Units**							
Mercury	mg/kg	-	-	-	-	0.12 J	0.020 U	0.018 U
Nickel	mg/kg	-	-	-	-	29	39	13
Potassium	mg/kg	-	-	-	-	1300	86 J	700
Selenium	mg/kg	-	-	-	-	1.1	0.14 J	0.83 J
Silver	mg/kg	-	-	-	-	0.21	0.13 J	0.030 J
Sodium	mg/kg	-	-	-	-	700	61 U	120 J
Thallium	mg/kg	-	-	-	-	0.25	0.057 U	0.16 J
Vanadium	mg/kg	-	-	-	-	27	5.0	26
Zinc	mg/kg	-	-	-	-	440	42	40 J
PCBs								
Aroclor-1016 (PCB-1016)	ug/kg	-	-	-	-	28 U	27 U	25 U
Aroclor-1221 (PCB-1221)	ug/kg	-	-	-	-	30 U	29 U	27 U
Aroclor-1232 (PCB-1232)	ug/kg	-	-	-	-	29 U	28 U	26 U
Aroclor-1242 (PCB-1242)	ug/kg	-	-	-	-	24 U	23 U	21 U
Aroclor-1248 (PCB-1248)	ug/kg	-	-	-	-	30 U	29 U	27 U
Aroclor-1254 (PCB-1254)	ug/kg	-	-	-	-	150	28 U	26 U
Aroclor-1260 (PCB-1260)	ug/kg	-	-	-	-	28 U	27 U	25 U
Pesticides								
4,4'-DDD	ug/kg	-	-	-	-	4.1 U	4.1 U	5.0 J
4,4'-DDE	ug/kg	-	-	-	-	1.5 U	1.5 U	1.3 U
4,4'-DDT	ug/kg	-	-	-	-	1.8 U	1.7 U	1.5 U
Aldrin	ug/kg	-	-	-	-	3.0 U	3.0 U	2.6 U
alpha-BHC	ug/kg	-	-	-	-	2.0 U	2.0 U	1.7 U
alpha-Chlordane	ug/kg	-	-	-	-	4.8 U	4.7 U	4.2 U
beta-BHC	ug/kg	-	-	-	-	4.9 U	4.8 U	4.3 U
delta-BHC	ug/kg	-	-	-	-	1.6 U	32 U	1.4 U
Dieldrin	ug/kg	-	-	-	-	1.1 U	1.1 U	0.98 U
Endosulfan I	ug/kg	-	-	-	-	1.6 U	1.6 U	1.4 U
Endosulfan II	ug/kg	-	-	-	-	2.3 U	2.2 U	2.0 U
Endosulfan sulfate	ug/kg	-	-	-	-	1.5 U	30 U	1.3 U
Endrin	ug/kg	-	-	-	-	1.8 U	1.7 U	1.5 U
Endrin aldehyde	ug/kg	-	-	-	-	2.3 U	45 UJ	2.0 U
Endrin ketone	ug/kg	-	-	-	-	1.4 U	1.4 U	1.2 U
gamma-BHC (lindane)	ug/kg	-	-	-	-	3.6 U	3.6 U	3.2 U
gamma-Chlordane	ug/kg	-	-	-	-	1.9 U	1.9 U	1.6 U
Heptachlor	ug/kg	-	-	-	-	0.98 U	0.97 U	0.85 U
Heptachlor epoxide	ug/kg	-	-	-	-	3.0 U	3.0 U	2.6 U
Methoxychlor	ug/kg	-	-	-	-	1.5 NJ	1.5 U	5.5 J
Toxaphene	ug/kg	-	-	-	-	46 U	46 U	40 U
Herbicides								
2,4,5-T	ug/kg	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/kg	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	-	-	-	-	-	-	-

Table 9

Summary of Analytical Results
Soil/Fill Samples - EU12
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH83-13**	**BH83-13**	**BH84-13**	**BH84-13**	**BH111-18**	**BH112-17**	**BH113-18**
Sample ID:		**S-38443-062413-SM-030**	**S-38443-062413-SM-041**	**S-38443-062613-JT-048**	**S-38443-062613-JT-049**	**S-38443-011118-JC-042**	**S-38443-121917-JC-014**	**S-38443-010318-JC-026**
Sample Date:		**6/24/2013**	**6/24/2013**	**6/26/2013**	**6/26/2013**	**1/11/2018**	**12/19/2017**	**1/3/2018**
Sample Depth:		**5-7.5 ft BGS**	**20.2-22.2 ft BGS**	**2-4 ft BGS**	**19-21 ft BGS**	**7.5-9.5 ft BGS**	**13-15 ft BGS**	**9-11 ft BGS**
Parameters	**Units**							
Dioxin/Furans								
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	4.0 J	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	79 J	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	1.7 J	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	4.8 J	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	0.21 UJ	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	0.22 UJ	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	0.097 UJ	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	0.20 UJ	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	0.61 J	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	0.24 UJ	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	0.37 J	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	0.076 U	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	0.064 U	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	0.20 UJ	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	0.073 U	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	0.69 J	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	0.12 U	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	5.8 J	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	9.8 J	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	1.8 J	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	4.0 J	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	3.5 J	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	0.94 J	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	7.3 J	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	0.45 J	-
Asbestos								
Asbestos	%	-	-	-	-	ND	-	-
Chrysotile asbestos	%	-	-	-	-	-	1 <	1 <
General Chemistry								
Cyanide (total)	mg/kg	-	-	-	-	1.5	0.14 J	0.074 J
Total solids	%	-	-	-	-	-	-	-

Notes
< - Less than reported value.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 9

Summary of Analytical Results
Soil/Fill Samples - EU12
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-62**	**SS-63**	**SS-64**	**SS-65**	**SS-65**	**SS-66**	**SS-67**
Sample ID:		**SS-38443-103018-JC-062**	**SS-38443-103018-JC-063**	**SS-38443-103018-JC-064**	**SS-38443-103018-JC-065**	**SS-38443-103018-JC-118**	**SS-38443-103018-JC-066**	**SS-38443-103018-JC-067**
Sample Date:		**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**
Sample Depth:		**0.17-2.17 ft BGS**	**0.17-2.17 ft BGS**	**0-2 ft BGS**	**0.25-2.25 ft BGS**	**0.25-2.25 ft BGS**	**0.17-2.17 ft BGS**	**0.17-2.17 ft BGS**
						Duplicate		
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/kg	1.5 U	0.84 U	18 UJ	33 U	1.1 U	0.71 U	0.93 U
1,1,2,2-Tetrachloroethane	ug/kg	R	1.5 U	18 UJ	33 U	2.0 UJ	1.2 U	1.6 U
1,1,2-Trichloroethane	ug/kg	2.1 U	1.2 U	16 UJ	30 U	1.6 UJ	0.98 U	1.3 U
1,1-Dichloroethane	ug/kg	1.3 J	0.71 U	11 UJ	21 UJ	0.95 U	0.60 U	0.79 U
1,1-Dichloroethene	ug/kg	1.6 U	0.93 U	19 UJ	35 UJ	1.2 U	0.78 U	1.0 U
1,2,4-Trichlorobenzene	ug/kg	R	0.59 U	170 UJ	310 U	R	0.49 U	0.65 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	R	3.7 U	110 UJ	210 U	R	3.1 U	4.1 U
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	1.4 U	0.79 U	99 UJ	190 U	1.1 UJ	0.67 U	0.87 U
1,2-Dichlorobenzene	ug/kg	R	1.1 U	26 UJ	49 U	R	0.96 U	1.3 U
1,2-Dichloroethane	ug/kg	1.4 U	0.79 U	15 UJ	28 U	1.1 U	0.67 U	0.88 U
1,2-Dichloropropane	ug/kg	1.6 U	0.88 U	10 UJ	19 UJ	1.2 U	0.74 U	0.97 U
1,3-Dichlorobenzene	ug/kg	R	0.84 U	26 UJ	49 U	R	0.71 U	0.93 U
1,4-Dichlorobenzene	ug/kg	R	0.91 U	21 UJ	40 U	R	0.76 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	6.5 U	5.6 J	200 UJ	380 J	4.9 UJ	3.1 U	4.6 J
2-Hexanone	ug/kg	7.4 U	4.2 U	330 UJ	620 U	5.6 UJ	3.5 U	4.6 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	6.8 U	3.8 U	300 UJ	560 U	5.1 UJ	3.2 U	4.2 U
Acetone	ug/kg	38 U	86	420 J	770 J	29 UJ	18 U	24 U
Benzene	ug/kg	1.3 U	0.72 U	10 UJ	19 UJ	0.96 U	0.60 U	0.79 U
Bromodichloromethane	ug/kg	1.2 U	0.70 U	35 UJ	66 U	0.93 U	0.59 U	0.77 U
Bromoform	ug/kg	4.4 U	2.5 U	130 UJ	250 U	3.3 UJ	2.1 U	2.7 U
Bromomethane (Methyl bromide)	ug/kg	1.8 U	1.0 U	R	390 U	1.4 U	0.85 U	1.1 U
Carbon disulfide	ug/kg	2.1 U	1.2 U	R	250 UJ	1.6 U	1.0 U	1.3 U
Carbon tetrachloride	ug/kg	5.9 U	3.3 U	23 UJ	42 U	4.5 U	2.8 U	3.7 U
Chlorobenzene	ug/kg	1.7 U	0.94 U	44 UJ	82 U	1.3 UJ	0.79 U	1.0 U
Chloroethane	ug/kg	2.2 U	1.3 U	190 UJ	350 U	1.7 U	1.1 U	1.4 U
Chloroform (Trichloromethane)	ug/kg	1.4 U	0.81 U	11 UJ	21 U	1.1 U	0.68 U	0.89 U
Chloromethane (Methyl chloride)	ug/kg	1.9 U	1.1 U	83 UJ	150 UJ	1.4 U	0.90 U	1.2 U
cis-1,2-Dichloroethene	ug/kg	1.2 J	0.67 U	28 J	21 UJ	1.5 U	0.56 U	0.74 U
cis-1,3-Dichloropropene	ug/kg	2.6 U	1.5 U	46 UJ	87 UJ	2.0 U	1.2 U	1.6 U
Cyclohexane	ug/kg	2.5 U	1.4 U	200 UJ	1400 J	1.9 UJ	1.2 U	1.6 U
Dibromochloromethane	ug/kg	5.1 U	2.9 U	150 UJ	270 U	3.8 UJ	2.4 U	3.2 U
Dichlorodifluoromethane (CFC-12)	ug/kg	1.7 U	0.97 U	R	R	1.3 U	0.81 U	1.1 U
Ethylbenzene	ug/kg	1.9 U	1.1 U	65 J	190 U	1.4 UJ	0.90 U	1.2 U
Isopropyl benzene	ug/kg	1.5 U	0.86 U	48 UJ	150 J	1.1 UJ	0.72 U	0.94 U
Methyl acetate	ug/kg	6.2 U	3.5 U	660 UJ	1200 U	4.7 U	2.9 U	3.9 U
Methyl cyclohexane	ug/kg	2.2 U	1.3 U	350 J	5900 J	1.7 UJ	1.1 U	1.4 U
Methyl tert butyl ether (MTBE)	ug/kg	1.5 U	0.84 U	46 UJ	87 U	1.1 U	0.71 U	0.93 U
Methylene chloride	ug/kg	22 U	12 U	980 J	900 U	17 U	10 U	14 U
Styrene	ug/kg	2.1 U	1.2 U	15 UJ	28 U	1.6 UJ	1.0 U	1.3 U
Tetrachloroethene	ug/kg	1.3 U	0.75 U	58 J	35 U	1.0 UJ	0.63 U	0.83 U
Toluene	ug/kg	1.4 U	0.80 U	320 J	630 J	1.1 UJ	0.67 U	0.88 U
trans-1,2-Dichloroethene	ug/kg	0.85 U	0.48 U	19 UJ	35 UJ	0.64 U	0.40 U	0.53 U
trans-1,3-Dichloropropene	ug/kg	1.9 U	1.1 U	130 UJ	250 U	1.4 UJ	0.89 U	1.2 U
Trichloroethene	ug/kg	1.2 U	0.65 U	81 J	30 UJ	2.7 J	3.7 J	2.7 J
Trichlorofluoromethane (CFC-11)	ug/kg	2.0 U	1.1 U	58 UJ	110 UJ	1.5 U	0.93 U	1.2 U

Table 9

Summary of Analytical Results
Soil/Fill Samples - EU12
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-62**	**SS-63**	**SS-64**	**SS-65**	**SS-65**	**SS-66**	**SS-67**
Sample ID:		**SS-38443-103018-JC-062**	**SS-38443-103018-JC-063**	**SS-38443-103018-JC-064**	**SS-38443-103018-JC-065**	**SS-38443-103018-JC-118**	**SS-38443-103018-JC-066**	**SS-38443-103018-JC-067**
Sample Date:		**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**
Sample Depth:		**0.17-2.17 ft BGS**	**0.17-2.17 ft BGS**	**0-2 ft BGS**	**0.25-2.25 ft BGS**	**0.25-2.25 ft BGS**	**0.17-2.17 ft BGS**	**0.17-2.17 ft BGS**
						Duplicate		
Parameters	**Units**							
Trifluorotrichloroethane (CFC-113)	ug/kg	2.3 U	1.3 U	84 UJ	160 U	1.8 U	1.1 U	1.5 U
Vinyl chloride	ug/kg	1.5 U	0.86 U	13 UJ	23 UJ	1.2 U	0.72 U	0.95 U
Xylenes (total)	ug/kg	2.9 U	1.6 U	510 J	2300 J	2.2 UJ	1.4 U	1.8 U
Semi-Volatiles								
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	12 U	12 U	11 U	12 U	29 U	11 U	12 U
2,4,5-Trichlorophenol	ug/kg	80 U	83 U	74 U	81 U	200 U	75 U	81 U
2,4,6-Trichlorophenol	ug/kg	74 U	77 U	69 U	75 U	190 U	70 U	75 U
2,4-Dichlorophenol	ug/kg	51 U	53 U	47 U	51 U	130 U	48 U	52 U
2,4-Dimethylphenol	ug/kg	46 U	48 U	43 UJ	47 U	120 U	44 U	47 U
2,4-Dinitrophenol	ug/kg	160 U	170 U	150 U	170 U	410 U	150 U	170 U
2,4-Dinitrotoluene	ug/kg	72 U	74 U	67 U	72 U	180 U	67 U	73 U
2,6-Dinitrotoluene	ug/kg	65 U	67 U	60 U	65 U	160 U	61 U	66 U
2-Chloronaphthalene	ug/kg	16 U	17 U	15 U	16 U	41 U	15 U	16 U
2-Chlorophenol	ug/kg	12 U	12 U	11 U	12 U	29 U	11 U	12 U
2-Methylnaphthalene	ug/kg	18	15 J	430	770 J	3200 J	16	24
2-Methylphenol	ug/kg	36 U	37 U	33 U	36 U	90 U	34 U	36 U
2-Nitroaniline	ug/kg	46 U	48 U	43 U	47 U	120 U	44 U	47 U
2-Nitrophenol	ug/kg	15 U	16 U	14 U	15 U	38 U	14 U	15 U
3&4-Methylphenol	ug/kg	33 U	35 U	31 U	34 U	85 U	32 U	34 U
3,3'-Dichlorobenzidine	ug/kg	50 U	51 U	R	50 U	130 U	47 U	51 U
3-Nitroaniline	ug/kg	57 U	59 U	53 U	57 U	140 U	53 U	58 U
4,6-Dinitro-2-methylphenol	ug/kg	92 U	96 U	86 U	93 U	230 U	87 U	94 U
4-Bromophenyl phenyl ether	ug/kg	16 U	17 U	15 U	16 U	41 U	15 U	16 U
4-Chloro-3-methylphenol	ug/kg	52 U	54 U	48 U	53 U	130 U	49 U	53 U
4-Chloroaniline	ug/kg	35 U	36 U	32 U	35 U	87 U	33 U	35 U
4-Chlorophenyl phenyl ether	ug/kg	16 U	17 U	15 U	16 U	41 U	15 U	16 U
4-Methylphenol	ug/kg	-	-	-	-	-	-	-
4-Nitroaniline	ug/kg	69 U	72 U	64 U	70 U	170 U	65 U	70 U
4-Nitrophenol	ug/kg	110 U	110 U	100 U	110 U	270 U	100 U	110 U
Acenaphthene	ug/kg	11 J	3.4 U	22	3.3 UJ	95 J	3.1 U	3.4 U
Acenaphthylene	ug/kg	110	4.8 U	4.3 U	4.7 U	12 U	6.2 J	12 J
Acetophenone	ug/kg	13 U	13 U	12 U	13 U	32 U	12 U	13 U
Anthracene	ug/kg	54	2.9 U	16	41 J	200 J	12 J	9.3 J
Atrazine	ug/kg	42 U	43 U	39 U	42 U	100 U	39 U	42 U
Benzaldehyde	ug/kg	27 U	28 U	35 J	70 J	330 J	25 U	27 U
Benzo(a)anthracene	ug/kg	610	5.3 J	63	140 J	610 J	99	62
Benzo(a)pyrene	ug/kg	750	11 U	37	74 J	330 J	99	78
Benzo(b)fluoranthene	ug/kg	1100	9.4 J	69	140 J	640 J	150	110
Benzo(g,h,i)perylene	ug/kg	510	9.4 J	59	78 J	320 J	56	56
Benzo(k)fluoranthene	ug/kg	390	8.3 U	9.5 J	28 J	84 J	52	36
Biphenyl (1,1-Biphenyl)	ug/kg	20 U	20 U	34 J	43 J	170 J	19 U	20 U
bis(2-Chloroethoxy)methane	ug/kg	14 U	14 U	13 U	14 U	35 U	13 U	14 U
bis(2-Chloroethyl)ether	ug/kg	14 U	14 U	13 U	14 U	35 U	13 U	14 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	59 U	83 J	67 J	60 U	150 U	170	60 U
Butyl benzylphthalate (BBP)	ug/kg	25 U	26 U	24 U	26 U	64 U	24 U	26 U

Table 9

Summary of Analytical Results
Soil/Fill Samples - EU12
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-62**	**SS-63**	**SS-64**	**SS-65**	**SS-65**	**SS-66**	**SS-67**
Sample ID:		**SS-38443-103018-JC-062**	**SS-38443-103018-JC-063**	**SS-38443-103018-JC-064**	**SS-38443-103018-JC-065**	**SS-38443-103018-JC-118**	**SS-38443-103018-JC-066**	**SS-38443-103018-JC-067**
Sample Date:		**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**
Sample Depth:		**0.17-2.17 ft BGS**	**0.17-2.17 ft BGS**	**0-2 ft BGS**	**0.25-2.25 ft BGS**	**0.25-2.25 ft BGS**	**0.17-2.17 ft BGS**	**0.17-2.17 ft BGS**
						Duplicate		
Parameters	**Units**							
Caprolactam	ug/kg	87 U	90 U	80 U	88 U	220 U	82 U	88 U
Carbazole	ug/kg	51 J	23 U	32 J	40 J	140 J	21 U	22 U
Chrysene	ug/kg	730	10 J	120	170 J	730 J	120	80
Dibenz(a,h)anthracene	ug/kg	130	8.3 U	17	24 J	88 J	19	13 J
Dibenzofuran	ug/kg	15 U	16 U	110	230 J	990 J	14 U	15 U
Diethyl phthalate	ug/kg	36 U	37 U	33 U	36 U	90 U	34 U	36 U
Dimethyl phthalate	ug/kg	16 U	17 U	15 U	16 U	41 U	15 U	16 U
Di-n-butylphthalate (DBP)	ug/kg	25 U	26 U	24 U	26 U	64 U	24 U	26 U
Di-n-octyl phthalate (DnOP)	ug/kg	32 U	33 U	30 U	33 U	82 U	30 U	33 U
Fluoranthene	ug/kg	960	5.6 J	72	130 J	590 J	160	110
Fluorene	ug/kg	14 J	3.3 U	32	20 J	77 J	3.0 U	3.2 U
Hexachlorobenzene	ug/kg	3.3 U	3.4 U	3.1 U	3.3 U	8.3 U	3.1 U	3.3 U
Hexachlorobutadiene	ug/kg	14 U	14 U	13 U	14 U	35 U	13 U	14 U
Hexachlorocyclopentadiene	ug/kg	72 U	74 U	R	72 U	180 U	67 U	73 U
Hexachloroethane	ug/kg	10 U	11 U	9.7 U	11 U	26 U	9.8 U	11 U
Indeno(1,2,3-cd)pyrene	ug/kg	470	8.8 U	18	29 J	120 J	49	50
Isophorone	ug/kg	14 U	14 U	13 U	14 U	35 U	13 U	14 U
Naphthalene	ug/kg	17	6.1 J	230	360 J	1500 J	12 J	16 J
Nitrobenzene	ug/kg	15 U	16 U	14 U	15 U	38 U	14 U	15 U
N-Nitrosodi-n-propylamine	ug/kg	13 U	13 U	12 U	13 U	32 U	12 U	13 U
N-Nitrosodiphenylamine	ug/kg	14 U	14 U	13 U	14 U	35 U	13 U	14 U
Pentachlorophenol	ug/kg	67 UJ	69 UJ	62 UJ	68 UJ	170 UJ	63 U	68 U
Phenanthrene	ug/kg	200	28	390	590 J	2300 J	46	55
Phenol	ug/kg	9.2 U	9.6 U	8.6 U	9.3 U	23 U	8.7 U	9.4 U
Pyrene	ug/kg	1000	7.0 J	100	150 J	660 J	150	98
Metals								
Aluminum	mg/kg	4600	2000	840	3200	3600	3400	7900
Antimony	mg/kg	0.27 J	0.19 J	0.24 J	0.27 J	1.7 J	0.35 J	0.63 J
Arsenic	mg/kg	6.2	2.4	5.5	9.9 J	46 J	5.0	9.4
Barium	mg/kg	99	130	100	150 J	560 J	58	110
Beryllium	mg/kg	0.59	0.23	0.36	0.47 J	1.5 J	0.19	0.97
Cadmium	mg/kg	0.23	0.24	0.28	0.090 U	0.091 U	0.27	0.40
Calcium	mg/kg	110000 J	25000	1400 J	1700	2400	130000	58000
Chromium	mg/kg	9.7	39	7.8	7.0	15	9.6	17
Chromium III (trivalent)	mg/kg	9.7	39	7.8	7.0	15	9.6	17
Chromium VI (hexavalent)	mg/kg	0.28 U	0.29 U	0.26 U	0.28 U	0.35 U	0.26 U	0.28 U
Cobalt	mg/kg	4.9	2.8	6.4	3.5	7.0	3.7	7.1
Copper	mg/kg	18	28	21	21	44	24	79
Iron	mg/kg	9300	4800	5500	6600	4400	9900	12000
Lead	mg/kg	110	35 J	31	8.1 J	34 J	58 J	42 J
Lead - coarse fraction	mg/kg	-	-	-	-	-	80	-
Lead - fine fraction	mg/kg	-	-	-	-	-	200	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	92	-
Magnesium	mg/kg	46000 J	9100	720 J	32000 J	330 J	55000	25000
Manganese	mg/kg	230	110	15	240 J	17 J	400	390

Table 9

Summary of Analytical Results
Soil/Fill Samples - EU12
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-62**	**SS-63**	**SS-64**	**SS-65**	**SS-65**	**SS-66**	**SS-67**
Sample ID:		**SS-38443-103018-JC-062**	**SS-38443-103018-JC-063**	**SS-38443-103018-JC-064**	**SS-38443-103018-JC-065**	**SS-38443-103018-JC-118**	**SS-38443-103018-JC-066**	**SS-38443-103018-JC-067**
Sample Date:		**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**
Sample Depth:		**0.17-2.17 ft BGS**	**0.17-2.17 ft BGS**	**0-2 ft BGS**	**0.25-2.25 ft BGS**	**0.25-2.25 ft BGS**	**0.17-2.17 ft BGS**	**0.17-2.17 ft BGS**
						Duplicate		
Parameters	**Units**							
Mercury	mg/kg	0.41	0.023 U	0.021 J	0.022 U	0.071 J	0.018 J	0.13
Nickel	mg/kg	13	8.6	22	8.8	16	11	19
Potassium	mg/kg	870	550	170 J	580	560	630	880
Selenium	mg/kg	0.45 J	0.26 J	0.71 J	0.47 J	4.8 J	0.16 J	0.65 J
Silver	mg/kg	0.11 J	0.025 J	0.029 J	0.021 J	0.10 J	0.049 J	0.15 J
Sodium	mg/kg	140 J	85 J	53 U	130 J	110 J	150 J	480
Thallium	mg/kg	0.17 J	0.052 U	0.086 U	0.27	0.70	0.14 J	0.27
Vanadium	mg/kg	14	12	12	13 J	49 J	11	22
Zinc	mg/kg	80 J	28 J	150 J	39 J	48 J	99 J	89 J
PCBs								
Aroclor-1016 (PCB-1016)	ug/kg	25 U	26 U	24 U	25 U	32 U	24 U	25 U
Aroclor-1221 (PCB-1221)	ug/kg	28 U	28 U	26 U	28 U	35 U	26 U	28 U
Aroclor-1232 (PCB-1232)	ug/kg	26 U	27 U	25 U	26 U	34 U	25 U	27 U
Aroclor-1242 (PCB-1242)	ug/kg	22 U	22 U	20 U	22 U	28 U	20 U	22 U
Aroclor-1248 (PCB-1248)	ug/kg	28 U	28 U	26 U	28 U	35 U	26 U	28 U
Aroclor-1254 (PCB-1254)	ug/kg	210	27 U	25 U	26 U	34 U	25 U	27 U
Aroclor-1260 (PCB-1260)	ug/kg	25 U	26 U	24 U	25 U	32 U	24 U	25 U
Pesticides								
4,4'-DDD	ug/kg	1.7 U	1.7 U	1.6 U	17 U	22 U	1.6 U	1.7 U
4,4'-DDE	ug/kg	1.7 U	1.8 U	1.6 U	17 U	22 U	1.6 U	1.7 U
4,4'-DDT	ug/kg	1.3 U	1.3 U	1.2 U	13 U	16 U	1.2 U	1.3 U
Aldrin	ug/kg	0.89 U	0.91 U	0.83 U	8.9 U	11 U	0.82 U	0.89 U
alpha-BHC	ug/kg	1.0 U	1.1 U	0.98 U	10 U	13 U	0.97 U	1.1 U
alpha-Chlordane	ug/kg	1.7 U	1.8 U	1.6 U	17 U	22 U	1.6 U	1.7 U
beta-BHC	ug/kg	2.0 U	2.0 U	1.9 U	20 NJ	25 U	1.8 U	2.0 U
delta-BHC	ug/kg	1.9 U	2.0 U	1.8 U	19 U	25 U	1.8 U	2.0 U
Dieldrin	ug/kg	1.3 U	1.3 U	1.2 U	13 U	16 U	1.2 U	1.3 U
Endosulfan I	ug/kg	1.4 U	1.4 U	1.3 U	14 U	18 U	1.3 U	1.4 U
Endosulfan II	ug/kg	1.7 U	1.7 U	1.6 U	17 U	22 U	1.6 U	1.7 U
Endosulfan sulfate	ug/kg	1.5 U	1.5 U	1.4 U	15 U	19 U	1.4 U	1.5 U
Endrin	ug/kg	2.2 U	2.2 U	2.0 U	22 U	28 U	2.0 U	2.2 U
Endrin aldehyde	ug/kg	1.5 U	1.5 U	1.4 U	15 U	19 U	1.4 U	1.5 U
Endrin ketone	ug/kg	1.0 U	1.0 U	0.95 U	10 U	13 U	0.95 U	1.0 U
gamma-BHC (lindane)	ug/kg	2.1 U	2.1 U	1.9 U	21 U	26 U	1.9 U	2.1 U
gamma-Chlordane	ug/kg	1.4 U	1.4 U	1.3 U	14 U	18 U	1.3 U	1.4 U
Heptachlor	ug/kg	1.8 U	1.9 U	1.7 U	18 U	23 U	1.7 U	1.8 U
Heptachlor epoxide	ug/kg	1.7 U	1.7 U	1.5 U	17 U	21 U	1.5 U	1.7 U
Methoxychlor	ug/kg	7.5 U	7.7 U	7.0 U	76 U	96 U	7.0 U	7.6 U
Toxaphene	ug/kg	29 U	29 U	27 U	290 U	360 U	27 U	29 U
Herbicides								
2,4,5-T	ug/kg	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/kg	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	-	-	-	-	-	-	-

Table 9

Summary of Analytical Results
Soil/Fill Samples - EU12
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-62**	**SS-63**	**SS-64**	**SS-65**	**SS-65**	**SS-66**	**SS-67**
Sample ID:		**SS-38443-103018-JC-062**	**SS-38443-103018-JC-063**	**SS-38443-103018-JC-064**	**SS-38443-103018-JC-065**	**SS-38443-103018-JC-118**	**SS-38443-103018-JC-066**	**SS-38443-103018-JC-067**
Sample Date:		**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**
Sample Depth:		**0.17-2.17 ft BGS**	**0.17-2.17 ft BGS**	**0-2 ft BGS**	**0.25-2.25 ft BGS**	**0.25-2.25 ft BGS**	**0.17-2.17 ft BGS**	**0.17-2.17 ft BGS**
						Duplicate		
Parameters	**Units**							
Dioxin/Furans								
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Asbestos								
Asbestos	%	-	-	-	-	-	-	-
Chrysotile asbestos	%	-	-	-	-	-	-	-
General Chemistry								
Cyanide (total)	mg/kg	0.21 U	0.25 U	1.4	0.25 U	0.31 J	0.21 U	0.25 U
Total solids	%	-	-	-	-	-	-	-

Notes
< - Less than reported value.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 9

Summary of Analytical Results
Soil/Fill Samples - EU12
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-68**	**SS-69**	**SS-89**	**SS-167-AS**	**TT-10**	**TT-10**	**TT-10**
Sample ID:		**SS-38443-103018-JC-068**	**SS-38443-103018-JC-069**	**SS-38443-103018-JC-089**	**SS-38443-103018-JC-167**	**S-38443-100308-KMV-044**	**S-38443-100308-KMV-045**	**S-38443-100308-KMV-046**
Sample Date:		**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/3/2008**	**10/3/2008**	**10/3/2008**
Sample Depth:		**0.17-2.17 ft BGS**	**0.33-2.33 ft BGS**	**0-2 ft BGS**	**0-0.5 ft BGS**	**5 ft BGS**	**10 ft BGS**	**15 ft BGS**
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/kg	0.68 U	0.78 U	-	-	12 U	14 UJ	13 UJ
1,1,2,2-Tetrachloroethane	ug/kg	1.2 U	1.4 U	-	-	12 UJ	R	R
1,1,2-Trichloroethane	ug/kg	0.93 U	1.1 U	-	-	12 UJ	14 UJ	13 UJ
1,1-Dichloroethane	ug/kg	0.57 U	0.66 U	-	-	12 U	14 UJ	13 UJ
1,1-Dichloroethene	ug/kg	0.74 U	0.86 U	-	-	12 U	14 UJ	13 UJ
1,2,4-Trichlorobenzene	ug/kg	0.47 U	0.54 U	-	-	12 UJ	R	R
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	3.0 U	3.4 U	-	-	24 UJ	R	R
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	0.63 U	0.73 U	-	-	12 UJ	14 UJ	13 UJ
1,2-Dichlorobenzene	ug/kg	0.92 U	1.1 U	-	-	12 UJ	R	R
1,2-Dichloroethane	ug/kg	0.64 U	0.73 U	-	-	12 U	14 UJ	13 UJ
1,2-Dichloropropane	ug/kg	0.70 U	0.81 U	-	-	12 U	14 UJ	13 UJ
1,3-Dichlorobenzene	ug/kg	0.67 U	0.77 U	-	-	12 UJ	2.4 J	R
1,4-Dichlorobenzene	ug/kg	0.73 U	0.84 U	-	-	2.6 J	8.6 J	4.2 J
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	2.9 U	3.9 J	-	-	48 U	57 UJ	53 UJ
2-Hexanone	ug/kg	3.4 U	3.9 U	-	-	48 UJ	57 UJ	53 UJ
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	3.1 U	3.5 U	-	-	48 U	57 UJ	53 UJ
Acetone	ug/kg	17 U	24	-	-	R	38 J	33 J
Benzene	ug/kg	0.58 U	0.66 U	-	-	12 U	14 UJ	13 UJ
Bromodichloromethane	ug/kg	0.56 U	0.64 U	-	-	12 U	14 UJ	13 UJ
Bromoform	ug/kg	2.0 U	2.3 U	-	-	12 UJ	14 UJ	13 UJ
Bromomethane (Methyl bromide)	ug/kg	0.81 U	0.94 U	-	-	12 U	14 UJ	13 UJ
Carbon disulfide	ug/kg	0.96 U	1.1 U	-	-	12 U	14 UJ	13 UJ
Carbon tetrachloride	ug/kg	2.7 U	3.1 U	-	-	12 U	14 UJ	13 UJ
Chlorobenzene	ug/kg	0.76 U	0.87 U	-	-	12 UJ	14 UJ	13 UJ
Chloroethane	ug/kg	1.0 U	1.2 U	-	-	12 U	14 UJ	13 UJ
Chloroform (Trichloromethane)	ug/kg	0.65 U	0.75 U	-	-	12 U	14 UJ	13 UJ
Chloromethane (Methyl chloride)	ug/kg	0.86 U	0.99 U	-	-	12 U	14 UJ	13 UJ
cis-1,2-Dichloroethene	ug/kg	0.54 U	0.62 U	-	-	12 U	14 UJ	13 UJ
cis-1,3-Dichloropropene	ug/kg	1.2 U	1.4 U	-	-	12 U	14 UJ	13 UJ
Cyclohexane	ug/kg	1.1 U	1.3 U	-	-	24 U	29 UJ	27 UJ
Dibromochloromethane	ug/kg	2.3 U	2.6 U	-	-	12 UJ	14 UJ	13 UJ
Dichlorodifluoromethane (CFC-12)	ug/kg	0.78 U	0.89 U	-	-	12 U	14 UJ	13 UJ
Ethylbenzene	ug/kg	0.86 U	0.99 U	-	-	12 UJ	14 UJ	13 UJ
Isopropyl benzene	ug/kg	0.69 U	0.79 U	-	-	12 UJ	14 UJ	13 UJ
Methyl acetate	ug/kg	2.8 U	3.2 U	-	-	24 U	29 UJ	27 UJ
Methyl cyclohexane	ug/kg	1.0 U	1.2 U	-	-	24 U	29 UJ	27 UJ
Methyl tert butyl ether (MTBE)	ug/kg	0.68 U	0.78 U	-	-	48 U	57 UJ	53 UJ
Methylene chloride	ug/kg	9.9 U	11 U	-	-	1.9 J	18 J	18 J
Styrene	ug/kg	0.95 U	1.1 U	-	-	12 UJ	14 UJ	13 UJ
Tetrachloroethene	ug/kg	0.60 U	0.69 U	-	-	12 UJ	4.8 J	4.7 J
Toluene	ug/kg	0.64 U	0.73 U	-	-	1.1 J	1.7 J	1.0 J
trans-1,2-Dichloroethene	ug/kg	0.38 U	0.44 U	-	-	12 U	14 UJ	13 UJ
trans-1,3-Dichloropropene	ug/kg	0.85 U	0.98 U	-	-	12 UJ	14 UJ	13 UJ
Trichloroethene	ug/kg	0.52 U	0.60 U	-	-	12 U	14 UJ	13 UJ
Trichlorofluoromethane (CFC-11)	ug/kg	0.89 U	1.0 U	-	-	12 U	14 UJ	13 UJ

Table 9

Summary of Analytical Results
Soil/Fill Samples - EU12
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-68**	**SS-69**	**SS-89**	**SS-167-AS**	**TT-10**	**TT-10**	**TT-10**
Sample ID:		**SS-38443-103018-JC-068**	**SS-38443-103018-JC-069**	**SS-38443-103018-JC-089**	**SS-38443-103018-JC-167**	**S-38443-100308-KMV-044**	**S-38443-100308-KMV-045**	**S-38443-100308-KMV-046**
Sample Date:		**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/3/2008**	**10/3/2008**	**10/3/2008**
Sample Depth:		**0.17-2.17 ft BGS**	**0.33-2.33 ft BGS**	**0-2 ft BGS**	**0-0.5 ft BGS**	**5 ft BGS**	**10 ft BGS**	**15 ft BGS**
Parameters	**Units**							
Trifluorotrichloroethane (CFC-113)	ug/kg	1.1 U	1.2 U	-	-	12 U	14 UJ	13 UJ
Vinyl chloride	ug/kg	0.69 U	0.79 U	-	-	12 U	14 UJ	13 UJ
Xylenes (total)	ug/kg	1.3 U	1.5 U	-	-	24 UJ	29 UJ	27 UJ
Semi-Volatiles								
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	11 U	57 U	-	-	120 U	150 U	160 U
2,4,5-Trichlorophenol	ug/kg	77 U	390 U	-	-	180 U	230 U	230 U
2,4,6-Trichlorophenol	ug/kg	71 U	360 U	-	-	180 U	230 U	230 U
2,4-Dichlorophenol	ug/kg	49 U	250 U	-	-	180 U	230 U	230 U
2,4-Dimethylphenol	ug/kg	44 U	230 U	-	-	180 U	230 U	R
2,4-Dinitrophenol	ug/kg	160 U	810 U	-	-	400 U	500 U	510 U
2,4-Dinitrotoluene	ug/kg	69 U	350 U	-	-	240 U	300 U	310 U
2,6-Dinitrotoluene	ug/kg	62 U	320 U	-	-	240 U	300 U	310 U
2-Chloronaphthalene	ug/kg	16 U	80 U	-	-	61 U	76 U	78 U
2-Chlorophenol	ug/kg	11 U	57 U	-	-	61 U	76 U	78 U
2-Methylnaphthalene	ug/kg	160	590	-	-	36	10 U	19
2-Methylphenol	ug/kg	34 U	180 U	-	-	240 U	300 U	310 U
2-Nitroaniline	ug/kg	44 U	230 U	-	-	240 U	300 U	310 U
2-Nitrophenol	ug/kg	14 U	74 U	-	-	61 U	76 U	78 U
3&4-Methylphenol	ug/kg	32 U	420 J	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/kg	48 U	240 U	-	-	120 U	150 U	160 U
3-Nitroaniline	ug/kg	54 U	280 U	-	-	240 U	300 U	310 U
4,6-Dinitro-2-methylphenol	ug/kg	89 U	450 U	-	-	180 U	230 U	230 U
4-Bromophenyl phenyl ether	ug/kg	16 U	80 U	-	-	61 U	76 U	78 U
4-Chloro-3-methylphenol	ug/kg	50 U	260 U	-	-	180 U	230 U	230 U
4-Chloroaniline	ug/kg	33 U	170 U	-	-	180 U	230 U	230 U
4-Chlorophenyl phenyl ether	ug/kg	16 U	80 U	-	-	61 U	76 U	78 U
4-Methylphenol	ug/kg	-	-	-	-	240 U	300 U	310 U
4-Nitroaniline	ug/kg	67 U	340 U	-	-	240 U	300 U	310 U
4-Nitrophenol	ug/kg	100 U	530 U	-	-	400 U	500 U	510 U
Acenaphthene	ug/kg	3.2 U	190	-	-	8.1 U	10 U	10 U
Acenaphthylene	ug/kg	5.0 J	23 U	-	-	8.1 U	10 U	10 U
Acetophenone	ug/kg	22 J	210 J	-	-	120 U	150 U	160 UJ
Anthracene	ug/kg	2.7 U	69 J	-	-	8.1 U	10 U	10 U
Atrazine	ug/kg	40 U	200 U	-	-	240 U	300 U	310 U
Benzaldehyde	ug/kg	26 U	130 U	-	-	120 U	150 U	160 U
Benzo(a)anthracene	ug/kg	32	46 J	-	-	33	10 U	10 U
Benzo(a)pyrene	ug/kg	27	53 U	-	-	23	10 U	10 U
Benzo(b)fluoranthene	ug/kg	36	40 J	-	-	34	10 U	10 U
Benzo(g,h,i)perylene	ug/kg	26	40 U	-	-	14	10 U	10 U
Benzo(k)fluoranthene	ug/kg	7.7 U	39 U	-	-	16	10 U	10 U
Biphenyl (1,1-Biphenyl)	ug/kg	19 U	250 J	-	-	61 U	76 U	78 U
bis(2-Chloroethoxy)methane	ug/kg	13 U	68 U	-	-	120 U	150 U	160 U
bis(2-Chloroethyl)ether	ug/kg	13 U	68 U	-	-	120 U	150 U	160 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	57 U	450	-	-	61 U	76 U	54 J
Butyl benzylphthalate (BBP)	ug/kg	24 U	120 U	-	-	61 U	76 U	78 U

Table 9

Summary of Analytical Results
Soil/Fill Samples - EU12
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-68**	**SS-69**	**SS-89**	**SS-167-AS**	**TT-10**	**TT-10**	**TT-10**
Sample ID:		**SS-38443-103018-JC-068**	**SS-38443-103018-JC-069**	**SS-38443-103018-JC-089**	**SS-38443-103018-JC-167**	**S-38443-100308-KMV-044**	**S-38443-100308-KMV-045**	**S-38443-100308-KMV-046**
Sample Date:		**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/3/2008**	**10/3/2008**	**10/3/2008**
Sample Depth:		**0.17-2.17 ft BGS**	**0.33-2.33 ft BGS**	**0-2 ft BGS**	**0-0.5 ft BGS**	**5 ft BGS**	**10 ft BGS**	**15 ft BGS**
Parameters	**Units**							
Caprolactam	ug/kg	83 U	430 U	-	-	400 U	500 U	510 U
Carbazole	ug/kg	21 U	110 U	-	-	61 U	76 U	78 U
Chrysene	ug/kg	64	51 J	-	-	38	10 U	10 U
Dibenz(a,h)anthracene	ug/kg	7.7 U	39 U	-	-	8.1 U	10 U	10 U
Dibenzofuran	ug/kg	54 J	130 J	-	-	61 U	76 U	78 U
Diethyl phthalate	ug/kg	34 U	180 U	-	-	61 U	76 U	78 U
Dimethyl phthalate	ug/kg	16 U	80 U	-	-	61 U	76 U	78 U
Di-n-butylphthalate (DBP)	ug/kg	24 U	140 J	-	-	61 U	76 U	78 U
Di-n-octyl phthalate (DnOP)	ug/kg	31 U	160 U	-	-	61 U	76 U	78 U
Fluoranthene	ug/kg	43	130	-	-	70	10 U	10 U
Fluorene	ug/kg	3.0 U	330	-	-	8.1 U	10 U	10 U
Hexachlorobenzene	ug/kg	3.2 U	16 U	-	-	8.1 U	10 U	10 U
Hexachlorobutadiene	ug/kg	13 U	68 U	-	-	61 U	76 U	78 U
Hexachlorocyclopentadiene	ug/kg	69 U	350 U	-	-	400 U	500 U	510 U
Hexachloroethane	ug/kg	10 U	51 U	-	-	61 U	76 U	78 U
Indeno(1,2,3-cd)pyrene	ug/kg	17	42 U	-	-	12	10 U	10 U
Isophorone	ug/kg	13 U	68 U	-	-	61 U	76 U	78 U
Naphthalene	ug/kg	99	470	-	-	18	10 U	10 U
Nitrobenzene	ug/kg	14 U	74 U	-	-	120 U	150 U	160 U
N-Nitrosodi-n-propylamine	ug/kg	12 U	62 U	-	-	61 U	76 U	78 U
N-Nitrosodiphenylamine	ug/kg	13 U	68 U	-	-	61 U	76 U	78 U
Pentachlorophenol	ug/kg	64 U	330 UJ	-	-	180 U	230 U	230 U
Phenanthrene	ug/kg	160	630	-	-	53	10 U	11
Phenol	ug/kg	8.9 U	87 J	-	-	61 U	76 U	78 U
Pyrene	ug/kg	44	130	-	-	58	10 U	10 U
Metals								
Aluminum	mg/kg	5400	1400	-	-	2120	3550	3910
Antimony	mg/kg	0.18 J	0.12 J	-	-	1.5 J	2.0 J	2.1 J
Arsenic	mg/kg	8.6	1.7	-	-	21.6	47.8	51.2
Barium	mg/kg	54	14	-	-	343	735	761
Beryllium	mg/kg	0.43	0.087 U	-	-	0.88	1.4	1.5
Cadmium	mg/kg	0.20	0.098 U	-	-	0.090 J	0.76 U	0.78 U
Calcium	mg/kg	91000	740	-	-	4100 J	1620 J	7160 J
Chromium	mg/kg	7.2	8.4	-	-	7.9	15.0	16.7
Chromium III (trivalent)	mg/kg	7.2	8.4	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	0.27 U	0.27 U	-	-	-	-	-
Cobalt	mg/kg	4.0	0.76	-	-	2.7 J	4.9 J	5.9 J
Copper	mg/kg	12	11	-	-	39.1	48.1	55.9
Iron	mg/kg	10000	10000	-	-	4410	4670	5880
Lead	mg/kg	8.1 J	8.0 J	-	-	27.5	45.2	48.3
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-
Magnesium	mg/kg	39000	380	-	-	1700 J	325 J	3720 J
Manganese	mg/kg	410	100	-	-	18.6	13.5	19.7

Table 9

Summary of Analytical Results
Soil/Fill Samples - EU12
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-68**	**SS-69**	**SS-89**	**SS-167-AS**	**TT-10**	**TT-10**	**TT-10**
Sample ID:		**SS-38443-103018-JC-068**	**SS-38443-103018-JC-069**	**SS-38443-103018-JC-089**	**SS-38443-103018-JC-167**	**S-38443-100308-KMV-044**	**S-38443-100308-KMV-045**	**S-38443-100308-KMV-046**
Sample Date:		**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/3/2008**	**10/3/2008**	**10/3/2008**
Sample Depth:		**0.17-2.17 ft BGS**	**0.33-2.33 ft BGS**	**0-2 ft BGS**	**0-0.5 ft BGS**	**5 ft BGS**	**10 ft BGS**	**15 ft BGS**
Parameters	**Units**							
Mercury	mg/kg	0.023 U	0.022 U	-	-	0.039 J	0.087 J	0.096 J
Nickel	mg/kg	10	10	-	-	8.2	11.8	13.6
Potassium	mg/kg	660	51 U	-	-	339 J	547 J	590 J
Selenium	mg/kg	0.26 J	0.11 U	-	-	5.5 J	7.7 J	7.1 J
Silver	mg/kg	0.026 J	0.024 J	-	-	1.2 U	1.5 U	1.6 U
Sodium	mg/kg	120 J	47 U	-	-	608 U	757 U	776 U
Thallium	mg/kg	0.15 J	0.044 U	-	-	0.45	0.76 U	1.1
Vanadium	mg/kg	13	1.6	-	-	23.4	44.6	47.2
Zinc	mg/kg	35 J	15 J	-	-	15.9	12.1	15.1
PCBs								
Aroclor-1016 (PCB-1016)	ug/kg	24 U	25 U	-	-	40 U	50 U	51 U
Aroclor-1221 (PCB-1221)	ug/kg	26 U	27 U	-	-	40 U	50 U	51 U
Aroclor-1232 (PCB-1232)	ug/kg	25 U	26 U	-	-	40 U	50 U	51 U
Aroclor-1242 (PCB-1242)	ug/kg	21 U	21 U	-	-	40 U	50 U	51 U
Aroclor-1248 (PCB-1248)	ug/kg	26 U	27 U	-	-	40 U	50 U	51 U
Aroclor-1254 (PCB-1254)	ug/kg	25 U	26 U	-	-	40 U	50 U	51 U
Aroclor-1260 (PCB-1260)	ug/kg	24 U	25 U	-	-	40 U	50 U	51 U
Pesticides								
4,4'-DDD	ug/kg	1.6 U	17 U	-	-	41 U	13 U	2.6 U
4,4'-DDE	ug/kg	1.7 U	17 U	-	-	27 J	4.3 J	1.4 J
4,4'-DDT	ug/kg	1.2 U	13 U	-	-	41 UJ	13 UJ	2.6 UJ
Aldrin	ug/kg	0.85 U	8.7 U	-	-	41 U	13 U	2.6 U
alpha-BHC	ug/kg	10	10 U	-	-	41 U	13 U	2.6 U
alpha-Chlordane	ug/kg	1.7 U	17 U	-	-	41 U	13 U	2.6 U
beta-BHC	ug/kg	8.1 NJ	19 U	-	-	41 U	13 U	2.6 U
delta-BHC	ug/kg	1.9 U	19 U	-	-	41 U	13 U	2.6 U
Dieldrin	ug/kg	1.2 U	12 U	-	-	41 U	13 U	2.6 U
Endosulfan I	ug/kg	1.3 U	13 U	-	-	41 U	13 U	2.6 U
Endosulfan II	ug/kg	1.6 U	17 U	-	-	41 U	13 U	2.6 U
Endosulfan sulfate	ug/kg	1.4 U	14 U	-	-	41 U	13 U	2.6 U
Endrin	ug/kg	2.1 U	21 U	-	-	41 U	13 U	2.6 U
Endrin aldehyde	ug/kg	1.4 U	15 U	-	-	41 U	13 U	2.6 U
Endrin ketone	ug/kg	0.98 U	10 U	-	-	41 U	13 U	1.1 J
gamma-BHC (lindane)	ug/kg	2.0 U	20 U	-	-	41 U	13 U	2.6 U
gamma-Chlordane	ug/kg	1.4 U	14 U	-	-	41 U	13 U	2.6 U
Heptachlor	ug/kg	1.7 U	18 U	-	-	41 U	13 U	2.6 U
Heptachlor epoxide	ug/kg	1.6 U	16 U	-	-	41 U	13 U	2.6 U
Methoxychlor	ug/kg	7.2 U	74 U	-	-	80 UJ	25 UJ	5.1 UJ
Toxaphene	ug/kg	28 U	280 U	-	-	1600 U	510 U	100 U
Herbicides								
2,4,5-T	ug/kg	-	-	16 U	-	-	-	-
2,4,5-TP (Silvex)	ug/kg	-	-	18 U	-	24 U	30 U	31 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	-	-	62 U	-	97 UJ	120 UJ	120 UJ

Table 9

Summary of Analytical Results
Soil/Fill Samples - EU12
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-68**	**SS-69**	**SS-89**	**SS-167-AS**	**TT-10**	**TT-10**	**TT-10**
Sample ID:		**SS-38443-103018-JC-068**	**SS-38443-103018-JC-069**	**SS-38443-103018-JC-089**	**SS-38443-103018-JC-167**	**S-38443-100308-KMV-044**	**S-38443-100308-KMV-045**	**S-38443-100308-KMV-046**
Sample Date:		**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/3/2008**	**10/3/2008**	**10/3/2008**
Sample Depth:		**0.17-2.17 ft BGS**	**0.33-2.33 ft BGS**	**0-2 ft BGS**	**0-0.5 ft BGS**	**5 ft BGS**	**10 ft BGS**	**15 ft BGS**
Parameters	**Units**							
Dioxin/Furans								
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Asbestos								
Asbestos	%	-	-	-	ND	-	-	-
Chrysotile asbestos	%	-	-	-	-	-	-	-
General Chemistry								
Cyanide (total)	mg/kg	0.21 U	0.22 U	-	-	0.61 U	0.76 U	0.78 U
Total solids	%	-	-	-	-	82.2	66.1	64.4

Notes
< - Less than reported value.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 10

Summary of Analytical Results
Soil/Fill Samples - EU13
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH66-13**	**BH66-13**	**BH67-13**	**BH67-13**	**BH71-13**	**BH72-13**	**BH73-13**
Sample ID:		**S-38443-062613-JC-054**	**S-38443-062613-JC-055**	**S-38443-062013-JC-032**	**S-38443-062013-JC-033**	**S-38443-062013-JT-025**	**S-38443-062013-JT-026**	**S-38443-062013-JT-024**
Sample Date:		**6/26/2013**	**6/26/2013**	**6/20/2013**	**6/20/2013**	**6/20/2013**	**6/20/2013**	**6/20/2013**
Sample Depth:		**10-12 ft BGS**	**22-24 ft BGS**	**7-9 ft BGS**	**21-23 ft BGS**	**21.5-23.5 ft BGS**	**18.75-20.75 ft BGS**	**18.5-20.5 ft BGS**
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/kg	11000 U	5.8 U	3600 U	5.0 U	5.5 U	4.8 U	5.6 U
1,1,2,2-Tetrachloroethane	ug/kg	11000 U	5.8 U	3600 U	5.0 U	5.5 U	4.8 U	5.6 U
1,1,2-Trichloroethane	ug/kg	11000 U	5.8 U	3600 U	5.0 U	5.5 U	4.8 U	5.6 U
1,1-Dichloroethane	ug/kg	11000 U	5.8 U	3600 U	5.0 U	5.5 U	4.8 U	5.6 U
1,1-Dichloroethene	ug/kg	11000 U	5.8 U	3600 U	5.0 U	5.5 U	4.8 U	5.6 U
1,2,4-Trichlorobenzene	ug/kg	11000 U	5.8 U	210 J	5.0 U	5.5 U	4.8 U	5.6 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	23000 UJ	12 UJ	7200 U	10 U	11 U	9.5 U	11 U
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	11000 U	5.8 U	3600 U	5.0 U	5.5 U	4.8 U	5.6 U
1,2-Dichlorobenzene	ug/kg	11000 U	5.8 U	3600 U	5.0 U	5.5 U	4.8 U	5.6 U
1,2-Dichloroethane	ug/kg	11000 U	5.8 U	3600 U	5.0 U	5.5 U	4.8 U	5.6 U
1,2-Dichloropropane	ug/kg	11000 U	5.8 U	3600 U	5.0 U	5.5 U	4.8 U	5.6 U
1,3-Dichlorobenzene	ug/kg	11000 U	5.8 U	170 J	5.0 U	5.5 U	4.8 U	5.6 U
1,4-Dichlorobenzene	ug/kg	11000 U	5.8 U	3600 U	5.0 U	5.5 U	4.8 U	5.6 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	46000 U	2.4 J	14000 U	20 U	22 U	19 U	22 U
2-Hexanone	ug/kg	46000 U	23 U	14000 U	20 U	22 U	19 U	22 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	46000 U	23 U	14000 U	20 U	22 U	19 U	22 U
Acetone	ug/kg	46000 U	23 U	4500 J	20 U	22 U	36 U	22 U
Benzene	ug/kg	11000 U	5.8 U	3600 U	5.0 U	5.5 U	0.88 J	5.6 U
Bromodichloromethane	ug/kg	11000 U	5.8 U	3600 U	5.0 U	5.5 U	4.8 U	5.6 U
Bromoform	ug/kg	11000 U	5.8 U	3600 U	5.0 U	5.5 U	4.8 U	5.6 U
Bromomethane (Methyl bromide)	ug/kg	11000 U	5.8 U	3600 UJ	5.0 U	5.5 U	4.8 U	5.6 UJ
Carbon disulfide	ug/kg	11000 U	1.4 J	3600 U	5.0 U	5.5 U	0.72 J	5.6 U
Carbon tetrachloride	ug/kg	11000 U	5.8 U	3600 U	5.0 U	5.5 U	4.8 U	5.6 U
Chlorobenzene	ug/kg	1000 J	2.9 J	320 J	0.49 J	5.5 U	4.8 U	5.6 U
Chloroethane	ug/kg	11000 U	5.8 U	3600 UJ	5.0 U	5.5 U	4.8 U	5.6 UJ
Chloroform (Trichloromethane)	ug/kg	11000 U	5.8 U	3600 U	5.0 U	5.5 U	4.8 U	5.6 U
Chloromethane (Methyl chloride)	ug/kg	11000 U	5.8 U	3600 U	5.0 U	5.5 U	4.8 U	5.6 U
cis-1,2-Dichloroethene	ug/kg	11000 U	5.8 U	890 J	2.0 J	5.5 U	34	5.6 U
cis-1,3-Dichloropropene	ug/kg	11000 U	5.8 U	3600 U	5.0 U	5.5 U	4.8 U	5.6 U
Cyclohexane	ug/kg	23000 U	12 U	7200 U	10 U	11 U	2.3 J	11 U
Dibromochloromethane	ug/kg	11000 U	5.8 U	3600 U	5.0 U	5.5 U	4.8 U	5.6 U
Dichlorodifluoromethane (CFC-12)	ug/kg	11000 U	5.8 U	3600 U	5.0 U	5.5 U	4.8 U	5.6 U
Ethylbenzene	ug/kg	56000	1.1 J	59000	5.0 U	5.5 U	1.8 J	0.35 J
Isopropyl benzene	ug/kg	13000	5.8 U	3600	5.0 U	5.5 U	4.8 U	5.6 U
Methyl acetate	ug/kg	23000 U	12 U	650 J	10 U	11 U	9.5 U	11 U
Methyl cyclohexane	ug/kg	53000	0.78 J	790 J	10 U	11 U	2.8 J	11 U
Methyl tert butyl ether (MTBE)	ug/kg	11000 U	5.8 U	3600 U	5.0 U	5.5 U	4.8 U	5.6 U
Methylene chloride	ug/kg	20000 U	11 U	4000	6.3 UJ	5.5 UJ	4.8 UJ	8.8 J
Styrene	ug/kg	11000 U	5.8 U	3600 U	5.0 U	5.5 U	4.8 U	5.6 U
Tetrachloroethene	ug/kg	11000 U	5.8 U	3600 U	5.0 U	5.5 U	3.1 J	5.6 U
Toluene	ug/kg	11000 U	2.0 J	1400 J	0.86 J	0.69 J	3.5 J	0.65 J
trans-1,2-Dichloroethene	ug/kg	11000 U	5.8 U	3600 U	5.0 U	5.5 U	4.8 U	5.6 U
trans-1,3-Dichloropropene	ug/kg	11000 U	5.8 U	3600 U	5.0 U	5.5 U	4.8 U	5.6 U
Trichloroethene	ug/kg	11000 U	5.8 U	1800 J	1.9 J	3.6 J	80	5.6 U
Trichlorofluoromethane (CFC-11)	ug/kg	11000 U	5.8 U	3600 U	5.0 U	5.5 U	4.8 U	5.6 U

Table 10

Summary of Analytical Results
Soil/Fill Samples - EU13
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH66-13**	**BH66-13**	**BH67-13**	**BH67-13**	**BH71-13**	**BH72-13**	**BH73-13**
Sample ID:		**S-38443-062613-JC-054**	**S-38443-062613-JC-055**	**S-38443-062013-JC-032**	**S-38443-062013-JC-033**	**S-38443-062013-JT-025**	**S-38443-062013-JT-026**	**S-38443-062013-JT-024**
Sample Date:		**6/26/2013**	**6/26/2013**	**6/20/2013**	**6/20/2013**	**6/20/2013**	**6/20/2013**	**6/20/2013**
Sample Depth:		**10-12 ft BGS**	**22-24 ft BGS**	**7-9 ft BGS**	**21-23 ft BGS**	**21.5-23.5 ft BGS**	**18.75-20.75 ft BGS**	**18.5-20.5 ft BGS**
Parameters	**Units**							
Trifluorotrichloroethane (CFC-113)	ug/kg	11000 U	5.8 U	3600 U	5.0 U	5.5 U	4.8 U	5.6 U
Vinyl chloride	ug/kg	11000 U	5.8 U	3600 U	5.0 U	5.5 U	4.8 U	5.6 U
Xylenes (total)	ug/kg	140000	2.9 J	73000	10 U	11 U	3.3 J	11 U
Semi-Volatiles								
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	ug/kg	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	ug/kg	-	-	-	-	-	-	-
2,4-Dichlorophenol	ug/kg	-	-	-	-	-	-	-
2,4-Dimethylphenol	ug/kg	-	-	-	-	-	-	-
2,4-Dinitrophenol	ug/kg	-	-	-	-	-	-	-
2,4-Dinitrotoluene	ug/kg	-	-	-	-	-	-	-
2,6-Dinitrotoluene	ug/kg	-	-	-	-	-	-	-
2-Chloronaphthalene	ug/kg	-	-	-	-	-	-	-
2-Chlorophenol	ug/kg	-	-	-	-	-	-	-
2-Methylnaphthalene	ug/kg	-	-	-	-	-	-	-
2-Methylphenol	ug/kg	-	-	-	-	-	-	-
2-Nitroaniline	ug/kg	-	-	-	-	-	-	-
2-Nitrophenol	ug/kg	-	-	-	-	-	-	-
3&4-Methylphenol	ug/kg	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/kg	-	-	-	-	-	-	-
3-Nitroaniline	ug/kg	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	ug/kg	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	ug/kg	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	ug/kg	-	-	-	-	-	-	-
4-Chloroaniline	ug/kg	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	ug/kg	-	-	-	-	-	-	-
4-Nitroaniline	ug/kg	-	-	-	-	-	-	-
4-Nitrophenol	ug/kg	-	-	-	-	-	-	-
Acenaphthene	ug/kg	-	-	-	-	-	-	-
Acenaphthylene	ug/kg	-	-	-	-	-	-	-
Acetophenone	ug/kg	-	-	-	-	-	-	-
Anthracene	ug/kg	-	-	-	-	-	-	-
Atrazine	ug/kg	-	-	-	-	-	-	-
Benzaldehyde	ug/kg	-	-	-	-	-	-	-
Benzo(a)anthracene	ug/kg	-	-	-	-	-	-	-
Benzo(a)pyrene	ug/kg	-	-	-	-	-	-	-
Benzo(b)fluoranthene	ug/kg	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	ug/kg	-	-	-	-	-	-	-
Benzo(k)fluoranthene	ug/kg	-	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	ug/kg	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	ug/kg	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	ug/kg	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	ug/kg	-	-	-	-	-	-	-
Caprolactam	ug/kg	-	-	-	-	-	-	-

Table 10

Summary of Analytical Results
Soil/Fill Samples - EU13
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH66-13**	**BH66-13**	**BH67-13**	**BH67-13**	**BH71-13**	**BH72-13**	**BH73-13**
Sample ID:		**S-38443-062613-JC-054**	**S-38443-062613-JC-055**	**S-38443-062013-JC-032**	**S-38443-062013-JC-033**	**S-38443-062013-JT-025**	**S-38443-062013-JT-026**	**S-38443-062013-JT-024**
Sample Date:		**6/26/2013**	**6/26/2013**	**6/20/2013**	**6/20/2013**	**6/20/2013**	**6/20/2013**	**6/20/2013**
Sample Depth:		**10-12 ft BGS**	**22-24 ft BGS**	**7-9 ft BGS**	**21-23 ft BGS**	**21.5-23.5 ft BGS**	**18.75-20.75 ft BGS**	**18.5-20.5 ft BGS**
Parameters	**Units**							
Carbazole	ug/kg	-	-	-	-	-	-	-
Chrysene	ug/kg	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	ug/kg	-	-	-	-	-	-	-
Dibenzofuran	ug/kg	-	-	-	-	-	-	-
Diethyl phthalate	ug/kg	-	-	-	-	-	-	-
Dimethyl phthalate	ug/kg	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	ug/kg	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	ug/kg	-	-	-	-	-	-	-
Fluoranthene	ug/kg	-	-	-	-	-	-	-
Fluorene	ug/kg	-	-	-	-	-	-	-
Hexachlorobenzene	ug/kg	-	-	-	-	-	-	-
Hexachlorobutadiene	ug/kg	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	ug/kg	-	-	-	-	-	-	-
Hexachloroethane	ug/kg	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/kg	-	-	-	-	-	-	-
Isophorone	ug/kg	-	-	-	-	-	-	-
Naphthalene	ug/kg	-	-	-	-	-	-	-
Nitrobenzene	ug/kg	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	ug/kg	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	ug/kg	-	-	-	-	-	-	-
Pentachlorophenol	ug/kg	-	-	-	-	-	-	-
Phenanthrene	ug/kg	-	-	-	-	-	-	-
Phenol	ug/kg	-	-	-	-	-	-	-
Pyrene	ug/kg	-	-	-	-	-	-	-
Metals								
Aluminum	mg/kg	-	-	-	-	-	-	-
Antimony	mg/kg	-	-	-	-	-	-	-
Arsenic	mg/kg	-	-	-	-	-	-	-
Barium	mg/kg	-	-	-	-	-	-	-
Beryllium	mg/kg	-	-	-	-	-	-	-
Cadmium	mg/kg	-	-	-	-	-	-	-
Calcium	mg/kg	-	-	-	-	-	-	-
Chromium	mg/kg	-	-	-	-	-	-	-
Chromium III (trivalent)	mg/kg	-	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-	-
Cobalt	mg/kg	-	-	-	-	-	-	-
Copper	mg/kg	-	-	-	-	-	-	-
Iron	mg/kg	-	-	-	-	-	-	-
Lead	mg/kg	-	-	-	-	-	-	-
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-
Magnesium	mg/kg	-	-	-	-	-	-	-
Manganese	mg/kg	-	-	-	-	-	-	-
Mercury	mg/kg	-	-	-	-	-	-	-

Table 10

Summary of Analytical Results
Soil/Fill Samples - EU13
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH66-13**	**BH66-13**	**BH67-13**	**BH67-13**	**BH71-13**	**BH72-13**	**BH73-13**
Sample ID:		**S-38443-062613-JC-054**	**S-38443-062613-JC-055**	**S-38443-062013-JC-032**	**S-38443-062013-JC-033**	**S-38443-062013-JT-025**	**S-38443-062013-JT-026**	**S-38443-062013-JT-024**
Sample Date:		**6/26/2013**	**6/26/2013**	**6/20/2013**	**6/20/2013**	**6/20/2013**	**6/20/2013**	**6/20/2013**
Sample Depth:		**10-12 ft BGS**	**22-24 ft BGS**	**7-9 ft BGS**	**21-23 ft BGS**	**21.5-23.5 ft BGS**	**18.75-20.75 ft BGS**	**18.5-20.5 ft BGS**
Parameters	**Units**							
Nickel	mg/kg	-	-	-	-	-	-	-
Potassium	mg/kg	-	-	-	-	-	-	-
Selenium	mg/kg	-	-	-	-	-	-	-
Silver	mg/kg	-	-	-	-	-	-	-
Sodium	mg/kg	-	-	-	-	-	-	-
Thallium	mg/kg	-	-	-	-	-	-	-
Vanadium	mg/kg	-	-	-	-	-	-	-
Zinc	mg/kg	-	-	-	-	-	-	-
PCBs								
Aroclor-1016 (PCB-1016)	ug/kg	75 U	40 U	2000 U	39 U	-	-	35 U
Aroclor-1221 (PCB-1221)	ug/kg	75 U	40 U	2000 U	39 U	-	-	35 U
Aroclor-1232 (PCB-1232)	ug/kg	75 U	40 U	2000 U	39 U	-	-	35 U
Aroclor-1242 (PCB-1242)	ug/kg	380	40 U	2000 U	44	-	-	35 U
Aroclor-1248 (PCB-1248)	ug/kg	75 U	40 U	2000 U	39 U	-	-	35 U
Aroclor-1254 (PCB-1254)	ug/kg	300 NJ	40 UJ	16000	290	-	-	35 U
Aroclor-1260 (PCB-1260)	ug/kg	75 UJ	40 UJ	2000 U	39 U	-	-	35 U
Pesticides								
4,4'-DDD	ug/kg	-	-	-	-	-	-	-
4,4'-DDE	ug/kg	-	-	-	-	-	-	-
4,4'-DDT	ug/kg	-	-	-	-	-	-	-
Aldrin	ug/kg	-	-	-	-	-	-	-
alpha-BHC	ug/kg	-	-	-	-	-	-	-
alpha-Chlordane	ug/kg	-	-	-	-	-	-	-
beta-BHC	ug/kg	-	-	-	-	-	-	-
delta-BHC	ug/kg	-	-	-	-	-	-	-
Dieldrin	ug/kg	-	-	-	-	-	-	-
Endosulfan I	ug/kg	-	-	-	-	-	-	-
Endosulfan II	ug/kg	-	-	-	-	-	-	-
Endosulfan sulfate	ug/kg	-	-	-	-	-	-	-
Endrin	ug/kg	-	-	-	-	-	-	-
Endrin aldehyde	ug/kg	-	-	-	-	-	-	-
Endrin ketone	ug/kg	-	-	-	-	-	-	-
gamma-BHC (lindane)	ug/kg	-	-	-	-	-	-	-
gamma-Chlordane	ug/kg	-	-	-	-	-	-	-
Heptachlor	ug/kg	-	-	-	-	-	-	-
Heptachlor epoxide	ug/kg	-	-	-	-	-	-	-
Methoxychlor	ug/kg	-	-	-	-	-	-	-
Toxaphene	ug/kg	-	-	-	-	-	-	-
Herbicides								
2,4,5-T	ug/kg	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/kg	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	-	-	-	-	-	-	-

Table 10

Summary of Analytical Results
Soil/Fill Samples - EU13
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH66-13**	**BH66-13**	**BH67-13**	**BH67-13**	**BH71-13**	**BH72-13**	**BH73-13**
Sample ID:		**S-38443-062613-JC-054**	**S-38443-062613-JC-055**	**S-38443-062013-JC-032**	**S-38443-062013-JC-033**	**S-38443-062013-JT-025**	**S-38443-062013-JT-026**	**S-38443-062013-JT-024**
Sample Date:		**6/26/2013**	**6/26/2013**	**6/20/2013**	**6/20/2013**	**6/20/2013**	**6/20/2013**	**6/20/2013**
Sample Depth:		**10-12 ft BGS**	**22-24 ft BGS**	**7-9 ft BGS**	**21-23 ft BGS**	**21.5-23.5 ft BGS**	**18.75-20.75 ft BGS**	**18.5-20.5 ft BGS**
Parameters	**Units**							
Dioxin/Furans								
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Asbestos								
Asbestos	%	-	-	-	-	-	-	-
Chrysotile asbestos	%	-	-	-	-	-	-	-
General Chemistry								
Cyanide (total)	mg/kg	-	-	-	-	-	-	-

Notes
< - Less than reported value.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 10

Summary of Analytical Results
Soil/Fill Samples - EU13
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH74-13**	**BH74-13**	**BH78-13**	**BH78-13**	**BH80-13**	**BH81-13**	**BH81-13**
Sample ID:		**S-38443-062013-JT-022**	**S-38443-062013-JT-023**	**S-38443-062513-JT-043**	**S-38443-062513-JT-044**	**S-38443-062413-SM-042**	**S-38443-062613-JC-070**	**S-38443-062613-JC-071**
Sample Date:		**6/20/2013**	**6/20/2013**	**6/25/2013**	**6/25/2013**	**6/24/2013**	**6/26/2013**	**6/26/2013**
Sample Depth:		**0-2 ft BGS**	**19-21 ft BGS**	**20-22 ft BGS**	**20-22 ft BGS**	**22.5-24.5 ft BGS**	**15-17 ft BGS**	**22-24 ft BGS**
					Duplicate			
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/kg	6.5 U	5.6 U	4.7 U	4.0 U	5.0 U	600 U	5.2 U
1,1,2,2-Tetrachloroethane	ug/kg	6.5 U	5.6 U	4.7 U	4.0 U	5.0 U	600 U	5.2 U
1,1,2-Trichloroethane	ug/kg	6.5 U	5.6 U	4.7 U	4.0 U	5.0 U	600 U	5.2 U
1,1-Dichloroethane	ug/kg	6.5 U	5.6 U	4.7 U	4.0 U	5.0 U	77 J	5.2 U
1,1-Dichloroethene	ug/kg	6.5 U	5.6 U	4.7 U	4.0 U	5.0 U	600 U	5.2 U
1,2,4-Trichlorobenzene	ug/kg	6.5 U	5.6 U	4.7 U	4.0 U	5.0 U	600 U	5.2 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	13 U	11 U	9.5 U	8.0 U	10 U	1200 U	10 UJ
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	6.5 U	5.6 U	4.7 U	4.0 U	5.0 U	600 U	5.2 U
1,2-Dichlorobenzene	ug/kg	6.5 U	5.6 U	4.7 U	4.0 U	5.0 U	600 U	5.2 U
1,2-Dichloroethane	ug/kg	6.5 U	5.6 U	4.7 U	4.0 U	5.0 U	600 U	5.2 U
1,2-Dichloropropane	ug/kg	6.5 U	5.6 U	4.7 U	4.0 U	5.0 U	600 U	5.2 U
1,3-Dichlorobenzene	ug/kg	6.5 U	5.6 U	4.7 U	4.0 U	5.0 U	600 U	5.2 U
1,4-Dichlorobenzene	ug/kg	6.5 U	5.6 U	4.7 U	4.0 U	5.0 U	600 U	5.2 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	26 U	22 U	3.8 J	3.8 J	5.3 J	2400 U	4.4 J
2-Hexanone	ug/kg	26 U	22 U	19 U	16 U	20 U	2400 U	21 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	26 U	22 U	0.64 J	16 U	20 U	2400 U	21 U
Acetone	ug/kg	26 U	22 U	24 UJ	26 UJ	38 U	2400 U	28 U
Benzene	ug/kg	6.5 U	5.6 U	0.23 J	1.3 J	0.25 J	38 J	0.62 J
Bromodichloromethane	ug/kg	6.5 U	5.6 U	4.7 U	4.0 U	5.0 U	600 U	5.2 U
Bromoform	ug/kg	6.5 U	5.6 U	4.7 U	4.0 U	5.0 U	600 U	5.2 U
Bromomethane (Methyl bromide)	ug/kg	6.5 UJ	5.6 UJ	4.7 UJ	4.0 UJ	5.0 UJ	600 UJ	5.2 U
Carbon disulfide	ug/kg	6.5 U	5.6 U	0.47 J	0.93 J	5.0 U	600 U	2.4 J
Carbon tetrachloride	ug/kg	6.5 U	5.6 U	4.7 U	4.0 U	5.0 U	600 U	5.2 U
Chlorobenzene	ug/kg	6.5 U	5.6 U	4.7 U	0.37 J	0.39 J	600 U	12
Chloroethane	ug/kg	6.5 UJ	5.6 UJ	4.7 UJ	4.0 UJ	5.0 UJ	600 UJ	5.2 U
Chloroform (Trichloromethane)	ug/kg	0.40 J	5.6 U	4.7 U	0.25 J	5.0 U	600 U	5.2 U
Chloromethane (Methyl chloride)	ug/kg	6.5 U	5.6 U	4.7 U	4.0 U	5.0 U	600 U	5.2 U
cis-1,2-Dichloroethene	ug/kg	6.5 U	5.6 U	4.7 U	4.0 U	5.0 U	580 J	5.2 U
cis-1,3-Dichloropropene	ug/kg	6.5 U	5.6 U	4.7 U	4.0 U	5.0 U	600 U	5.2 U
Cyclohexane	ug/kg	13 U	11 U	9.5 U	0.50 J	10 U	1200 U	2.0 J
Dibromochloromethane	ug/kg	6.5 U	5.6 U	4.7 U	4.0 U	5.0 U	600 U	5.2 U
Dichlorodifluoromethane (CFC-12)	ug/kg	6.5 U	5.6 U	4.7 U	4.0 U	5.0 U	600 U	5.2 U
Ethylbenzene	ug/kg	6.5 U	5.6 U	0.57 J	0.45 J	5.0 U	5300	1.6 J
Isopropyl benzene	ug/kg	6.5 U	5.6 U	0.34 J	0.46 J	5.0 U	330 J	4.9 J
Methyl acetate	ug/kg	13 U	11 U	9.5 U	8.0 U	10 U	230 J	10 U
Methyl cyclohexane	ug/kg	13 U	11 U	9.5 U	1.2 J	10 U	200 J	1.5 J
Methyl tert butyl ether (MTBE)	ug/kg	6.5 U	5.6 U	4.7 U	4.0 U	5.0 U	600 U	5.2 U
Methylene chloride	ug/kg	8.9 J	7.4 J	13 J	13 J	13 U	600 U	12 U
Styrene	ug/kg	6.5 U	5.6 U	4.7 U	4.0 U	5.0 U	600 U	5.2 U
Tetrachloroethene	ug/kg	6.5 U	5.6 U	4.7 U	4.0 U	5.0 U	600 U	5.2 U
Toluene	ug/kg	6.5 U	0.47 J	0.76 J	1.0 J	5.0 U	390 J	1.7 J
trans-1,2-Dichloroethene	ug/kg	6.5 U	5.6 U	4.7 U	4.0 U	5.0 U	46 J	5.2 U
trans-1,3-Dichloropropene	ug/kg	6.5 U	5.6 U	4.7 U	4.0 U	5.0 U	600 U	5.2 U
Trichloroethene	ug/kg	3.3 J	0.71 J	4.7 U	4.0 U	5.0 U	1200 J	2.1 J
Trichlorofluoromethane (CFC-11)	ug/kg	6.5 U	5.6 U	4.7 U	4.0 U	5.0 U	600 U	5.2 U

Table 10

Summary of Analytical Results
Soil/Fill Samples - EU13
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH74-13**	**BH74-13**	**BH78-13**	**BH78-13**	**BH80-13**	**BH81-13**	**BH81-13**
Sample ID:		**S-38443-062013-JT-022**	**S-38443-062013-JT-023**	**S-38443-062513-JT-043**	**S-38443-062513-JT-044**	**S-38443-062413-SM-042**	**S-38443-062613-JC-070**	**S-38443-062613-JC-071**
Sample Date:		**6/20/2013**	**6/20/2013**	**6/25/2013**	**6/25/2013**	**6/24/2013**	**6/26/2013**	**6/26/2013**
Sample Depth:		**0-2 ft BGS**	**19-21 ft BGS**	**20-22 ft BGS**	**20-22 ft BGS**	**22.5-24.5 ft BGS**	**15-17 ft BGS**	**22-24 ft BGS**
					Duplicate			
Parameters	**Units**							
Trifluorotrichloroethane (CFC-113)	ug/kg	6.5 U	5.6 U	4.7 U	4.0 U	5.0 U	600 U	5.2 U
Vinyl chloride	ug/kg	6.5 U	5.6 U	4.7 U	4.0 U	5.0 U	50 J	5.2 U
Xylenes (total)	ug/kg	13 U	11 U	1.6 J	1.7 J	10 U	7200	6.4 J
Semi-Volatiles								
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	ug/kg	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	ug/kg	-	-	-	-	-	-	-
2,4-Dichlorophenol	ug/kg	-	-	-	-	-	-	-
2,4-Dimethylphenol	ug/kg	-	-	-	-	-	-	-
2,4-Dinitrophenol	ug/kg	-	-	-	-	-	-	-
2,4-Dinitrotoluene	ug/kg	-	-	-	-	-	-	-
2,6-Dinitrotoluene	ug/kg	-	-	-	-	-	-	-
2-Chloronaphthalene	ug/kg	-	-	-	-	-	-	-
2-Chlorophenol	ug/kg	-	-	-	-	-	-	-
2-Methylnaphthalene	ug/kg	-	-	-	-	-	-	-
2-Methylphenol	ug/kg	-	-	-	-	-	-	-
2-Nitroaniline	ug/kg	-	-	-	-	-	-	-
2-Nitrophenol	ug/kg	-	-	-	-	-	-	-
3&4-Methylphenol	ug/kg	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/kg	-	-	-	-	-	-	-
3-Nitroaniline	ug/kg	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	ug/kg	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	ug/kg	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	ug/kg	-	-	-	-	-	-	-
4-Chloroaniline	ug/kg	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	ug/kg	-	-	-	-	-	-	-
4-Nitroaniline	ug/kg	-	-	-	-	-	-	-
4-Nitrophenol	ug/kg	-	-	-	-	-	-	-
Acenaphthene	ug/kg	-	-	-	-	-	-	-
Acenaphthylene	ug/kg	-	-	-	-	-	-	-
Acetophenone	ug/kg	-	-	-	-	-	-	-
Anthracene	ug/kg	-	-	-	-	-	-	-
Atrazine	ug/kg	-	-	-	-	-	-	-
Benzaldehyde	ug/kg	-	-	-	-	-	-	-
Benzo(a)anthracene	ug/kg	-	-	-	-	-	-	-
Benzo(a)pyrene	ug/kg	-	-	-	-	-	-	-
Benzo(b)fluoranthene	ug/kg	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	ug/kg	-	-	-	-	-	-	-
Benzo(k)fluoranthene	ug/kg	-	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	ug/kg	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	ug/kg	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	ug/kg	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	ug/kg	-	-	-	-	-	-	-
Caprolactam	ug/kg	-	-	-	-	-	-	-

Table 10

Summary of Analytical Results
Soil/Fill Samples - EU13
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH74-13**	**BH74-13**	**BH78-13**	**BH78-13**	**BH80-13**	**BH81-13**	**BH81-13**
Sample ID:		**S-38443-062013-JT-022**	**S-38443-062013-JT-023**	**S-38443-062513-JT-043**	**S-38443-062513-JT-044**	**S-38443-062413-SM-042**	**S-38443-062613-JC-070**	**S-38443-062613-JC-071**
Sample Date:		**6/20/2013**	**6/20/2013**	**6/25/2013**	**6/25/2013**	**6/24/2013**	**6/26/2013**	**6/26/2013**
Sample Depth:		**0-2 ft BGS**	**19-21 ft BGS**	**20-22 ft BGS**	**20-22 ft BGS**	**22.5-24.5 ft BGS**	**15-17 ft BGS**	**22-24 ft BGS**
					Duplicate			
Parameters	**Units**							
Carbazole	ug/kg	-	-	-	-	-	-	-
Chrysene	ug/kg	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	ug/kg	-	-	-	-	-	-	-
Dibenzofuran	ug/kg	-	-	-	-	-	-	-
Diethyl phthalate	ug/kg	-	-	-	-	-	-	-
Dimethyl phthalate	ug/kg	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	ug/kg	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	ug/kg	-	-	-	-	-	-	-
Fluoranthene	ug/kg	-	-	-	-	-	-	-
Fluorene	ug/kg	-	-	-	-	-	-	-
Hexachlorobenzene	ug/kg	-	-	-	-	-	-	-
Hexachlorobutadiene	ug/kg	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	ug/kg	-	-	-	-	-	-	-
Hexachloroethane	ug/kg	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/kg	-	-	-	-	-	-	-
Isophorone	ug/kg	-	-	-	-	-	-	-
Naphthalene	ug/kg	-	-	-	-	-	-	-
Nitrobenzene	ug/kg	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	ug/kg	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	ug/kg	-	-	-	-	-	-	-
Pentachlorophenol	ug/kg	-	-	-	-	-	-	-
Phenanthrene	ug/kg	-	-	-	-	-	-	-
Phenol	ug/kg	-	-	-	-	-	-	-
Pyrene	ug/kg	-	-	-	-	-	-	-
Metals								
Aluminum	mg/kg	-	-	-	-	-	-	-
Antimony	mg/kg	-	-	-	-	-	-	-
Arsenic	mg/kg	-	-	-	-	-	-	-
Barium	mg/kg	-	-	-	-	-	-	-
Beryllium	mg/kg	-	-	-	-	-	-	-
Cadmium	mg/kg	-	-	-	-	-	-	-
Calcium	mg/kg	-	-	-	-	-	-	-
Chromium	mg/kg	-	-	-	-	-	-	-
Chromium III (trivalent)	mg/kg	-	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-	-
Cobalt	mg/kg	-	-	-	-	-	-	-
Copper	mg/kg	-	-	-	-	-	-	-
Iron	mg/kg	-	-	-	-	-	-	-
Lead	mg/kg	-	-	-	-	-	-	-
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-
Magnesium	mg/kg	-	-	-	-	-	-	-
Manganese	mg/kg	-	-	-	-	-	-	-
Mercury	mg/kg	-	-	-	-	-	-	-

Table 10

Summary of Analytical Results
Soil/Fill Samples - EU13
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH74-13**	**BH74-13**	**BH78-13**	**BH78-13**	**BH80-13**	**BH81-13**	**BH81-13**
Sample ID:		**S-38443-062013-JT-022**	**S-38443-062013-JT-023**	**S-38443-062513-JT-043**	**S-38443-062513-JT-044**	**S-38443-062413-SM-042**	**S-38443-062613-JC-070**	**S-38443-062613-JC-071**
Sample Date:		**6/20/2013**	**6/20/2013**	**6/25/2013**	**6/25/2013**	**6/24/2013**	**6/26/2013**	**6/26/2013**
Sample Depth:		**0-2 ft BGS**	**19-21 ft BGS**	**20-22 ft BGS**	**20-22 ft BGS**	**22.5-24.5 ft BGS**	**15-17 ft BGS**	**22-24 ft BGS**
					Duplicate			
Parameters	**Units**							
Nickel	mg/kg	-	-	-	-	-	-	-
Potassium	mg/kg	-	-	-	-	-	-	-
Selenium	mg/kg	-	-	-	-	-	-	-
Silver	mg/kg	-	-	-	-	-	-	-
Sodium	mg/kg	-	-	-	-	-	-	-
Thallium	mg/kg	-	-	-	-	-	-	-
Vanadium	mg/kg	-	-	-	-	-	-	-
Zinc	mg/kg	-	-	-	-	-	-	-
PCBs								
Aroclor-1016 (PCB-1016)	ug/kg	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	ug/kg	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	ug/kg	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	ug/kg	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/kg	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/kg	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/kg	-	-	-	-	-	-	-
Pesticides								
4,4'-DDD	ug/kg	-	-	-	-	-	-	-
4,4'-DDE	ug/kg	-	-	-	-	-	-	-
4,4'-DDT	ug/kg	-	-	-	-	-	-	-
Aldrin	ug/kg	-	-	-	-	-	-	-
alpha-BHC	ug/kg	-	-	-	-	-	-	-
alpha-Chlordane	ug/kg	-	-	-	-	-	-	-
beta-BHC	ug/kg	-	-	-	-	-	-	-
delta-BHC	ug/kg	-	-	-	-	-	-	-
Dieldrin	ug/kg	-	-	-	-	-	-	-
Endosulfan I	ug/kg	-	-	-	-	-	-	-
Endosulfan II	ug/kg	-	-	-	-	-	-	-
Endosulfan sulfate	ug/kg	-	-	-	-	-	-	-
Endrin	ug/kg	-	-	-	-	-	-	-
Endrin aldehyde	ug/kg	-	-	-	-	-	-	-
Endrin ketone	ug/kg	-	-	-	-	-	-	-
gamma-BHC (lindane)	ug/kg	-	-	-	-	-	-	-
gamma-Chlordane	ug/kg	-	-	-	-	-	-	-
Heptachlor	ug/kg	-	-	-	-	-	-	-
Heptachlor epoxide	ug/kg	-	-	-	-	-	-	-
Methoxychlor	ug/kg	-	-	-	-	-	-	-
Toxaphene	ug/kg	-	-	-	-	-	-	-
Herbicides								
2,4,5-T	ug/kg	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/kg	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	-	-	-	-	-	-	-

Table 10

Summary of Analytical Results
Soil/Fill Samples - EU13
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH74-13**	**BH74-13**	**BH78-13**	**BH78-13**	**BH80-13**	**BH81-13**	**BH81-13**
Sample ID:		**S-38443-062013-JT-022**	**S-38443-062013-JT-023**	**S-38443-062513-JT-043**	**S-38443-062513-JT-044**	**S-38443-062413-SM-042**	**S-38443-062613-JC-070**	**S-38443-062613-JC-071**
Sample Date:		**6/20/2013**	**6/20/2013**	**6/25/2013**	**6/25/2013**	**6/24/2013**	**6/26/2013**	**6/26/2013**
Sample Depth:		**0-2 ft BGS**	**19-21 ft BGS**	**20-22 ft BGS**	**20-22 ft BGS**	**22.5-24.5 ft BGS**	**15-17 ft BGS**	**22-24 ft BGS**
					Duplicate			
Parameters	**Units**							
Dioxin/Furans								
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Asbestos								
Asbestos	%	-	-	-	-	-	-	-
Chrysotile asbestos	%	-	-	-	-	-	-	-
General Chemistry								
Cyanide (total)	mg/kg	-	-	-	-	-	-	-

Notes
< - Less than reported value.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 10

Summary of Analytical Results
Soil/Fill Samples - EU13
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH107-18**	**BH108-18**	**BH109-18**	**BH110-18**	**BH159-17**	**BH159-17**	**SS-54**
Sample ID:		**S-38443-011618-JC-046**	**S-38443-011218-JC-043**	**S-38443-011618-JC-044**	**S-38443-011618-JC-045**	**S-38443-121817-JC-010**	**S-38443-121817-JC-011**	**SS-38443-103018-JC-054**
Sample Date:		**1/16/2018**	**1/12/2018**	**1/16/2018**	**1/16/2018**	**12/18/2017**	**12/18/2017**	**10/30/2018**
Sample Depth:		**12-14 ft BGS**	**7-9 ft BGS**	**7.5-9.5 ft BGS**	**6.3-8.3 ft BGS**	**13-15 ft BGS**	**19-21 ft BGS**	**0.25-2.25 ft BGS**
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/kg	0.24 U	36 U	54 J	34 U	-	0.23 U	18 U
1,1,2,2-Tetrachloroethane	ug/kg	0.27 U	31 U	41 U	29 U	-	0.26 U	18 U
1,1,2-Trichloroethane	ug/kg	0.41 U	30 U	39 U	28 U	-	0.39 U	17 U
1,1-Dichloroethane	ug/kg	0.34 U	40 U	53 U	38 U	-	0.33 U	11 UJ
1,1-Dichloroethene	ug/kg	0.56 U	47 U	62 U	44 U	-	0.54 U	19 UJ
1,2,4-Trichlorobenzene	ug/kg	0.25 U	34 U	44 U	32 U	-	0.24 U	170 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	0.71 U	63 U	82 U	59 U	-	0.68 U	110 U
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	0.36 U	30 U	39 U	28 U	-	0.35 U	100 U
1,2-Dichlorobenzene	ug/kg	0.23 U	23 U	31 U	22 U	-	1.7 J	27 U
1,2-Dichloroethane	ug/kg	0.30 U	39 U	51 U	37 U	-	0.29 U	15 U
1,2-Dichloropropane	ug/kg	0.32 U	39 U	51 U	37 U	-	0.31 U	10 UJ
1,3-Dichlorobenzene	ug/kg	0.30 U	49 U	65 U	46 U	-	0.29 U	27 U
1,4-Dichlorobenzene	ug/kg	0.36 U	35 U	46 U	33 U	-	0.35 U	22 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	1.3 U	65 U	85 U	61 U	-	4.5 U	200 U
2-Hexanone	ug/kg	0.60 U	110 U	150 U	110 U	-	0.58 U	330 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	0.93 U	52 U	68 U	49 U	-	0.89 U	300 U
Acetone	ug/kg	3.2 U	130 U	170 U	120 U	-	26 U	310 U
Benzene	ug/kg	0.33 U	31 U	41 U	29 U	-	0.32 U	10 UJ
Bromodichloromethane	ug/kg	0.34 U	23 U	31 U	22 U	-	0.33 U	36 U
Bromoform	ug/kg	0.42 U	30 U	39 U	28 U	-	0.40 U	130 U
Bromomethane (Methyl bromide)	ug/kg	0.61 U	36 U	48 U	34 U	-	0.59 U	210 U
Carbon disulfide	ug/kg	0.22 U	23 U	31 U	22 U	-	2.3 J	140 UJ
Carbon tetrachloride	ug/kg	0.26 U	35 U	46 U	33 U	-	0.25 U	23 U
Chlorobenzene	ug/kg	0.34 U	39 U	51 U	37 U	-	1.2 J	44 U
Chloroethane	ug/kg	0.40 U	36 U	48 U	34 U	-	0.38 U	190 U
Chloroform (Trichloromethane)	ug/kg	0.24 U	31 U	41 U	29 U	-	0.23 U	11 U
Chloromethane (Methyl chloride)	ug/kg	0.40 U	23 U	31 U	22 U	-	0.38 U	84 UJ
cis-1,2-Dichloroethene	ug/kg	0.29 U	180 J	60 U	43 U	-	1.7 J	11 UJ
cis-1,3-Dichloropropene	ug/kg	0.27 U	30 U	39 U	28 U	-	0.26 U	47 UJ
Cyclohexane	ug/kg	0.22 U	39 U	85 J	37 U	-	0.21 U	210 UJ
Dibromochloromethane	ug/kg	0.31 U	44 U	58 U	42 U	-	0.30 U	150 U
Dichlorodifluoromethane (CFC-12)	ug/kg	0.36 U	29 U	38 U	27 U	-	0.35 U	R
Ethylbenzene	ug/kg	0.28 U	46 U	60 U	43 U	-	0.27 U	24 U
Isopropyl benzene	ug/kg	0.21 U	44 U	58 U	45 J	-	0.20 U	48 U
Methyl acetate	ug/kg	1.2 U	98 U	130 U	92 U	-	1.2 U	670 U
Methyl cyclohexane	ug/kg	0.24 U	48 U	270 J	45 U	-	0.27 J	84 UJ
Methyl tert butyl ether (MTBE)	ug/kg	0.28 U	34 U	44 U	32 U	-	0.27 U	47 U
Methylene chloride	ug/kg	6.1 U	85 U	160 U	100 U	-	0.24 U	490 U
Styrene	ug/kg	0.28 U	13 U	17 U	12 U	-	0.27 U	15 U
Tetrachloroethene	ug/kg	0.39 U	27 U	6200	26 U	-	0.37 U	41 U
Toluene	ug/kg	0.35 U	31 U	41 U	29 U	-	0.66 J	180 U
trans-1,2-Dichloroethene	ug/kg	0.40 U	46 U	60 U	43 U	-	0.38 U	19 UJ
trans-1,3-Dichloropropene	ug/kg	0.22 U	20 U	26 U	18 U	-	0.21 U	130 U
Trichloroethene	ug/kg	2.8 J	2800	340 J	45 U	-	4.4 J	890 J
Trichlorofluoromethane (CFC-11)	ug/kg	0.25 U	44 U	58 U	42 U	-	0.24 U	58 UJ

Table 10

Summary of Analytical Results
Soil/Fill Samples - EU13
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH107-18**	**BH108-18**	**BH109-18**	**BH110-18**	**BH159-17**	**BH159-17**	**SS-54**
Sample ID:		**S-38443-011618-JC-046**	**S-38443-011218-JC-043**	**S-38443-011618-JC-044**	**S-38443-011618-JC-045**	**S-38443-121817-JC-010**	**S-38443-121817-JC-011**	**SS-38443-103018-JC-054**
Sample Date:		**1/16/2018**	**1/12/2018**	**1/16/2018**	**1/16/2018**	**12/18/2017**	**12/18/2017**	**10/30/2018**
Sample Depth:		**12-14 ft BGS**	**7-9 ft BGS**	**7.5-9.5 ft BGS**	**6.3-8.3 ft BGS**	**13-15 ft BGS**	**19-21 ft BGS**	**0.25-2.25 ft BGS**
Parameters	**Units**							
Trifluorotrichloroethane (CFC-113)	ug/kg	0.51 U	30 U	39 UJ	28 UJ	-	0.49 U	85 U
Vinyl chloride	ug/kg	0.29 U	22 U	29 U	21 U	-	0.28 U	13 UJ
Xylenes (total)	ug/kg	0.42 U	36 U	49 J	45 J	-	0.70 J	120 J
Semi-Volatiles								
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	53 U	11 U	78 U	110 U	-	9.9 U	12 U
2,4,5-Trichlorophenol	ug/kg	140 U	30 U	200 U	300 U	-	26 U	80 U
2,4,6-Trichlorophenol	ug/kg	50 U	11 U	73 U	110 U	-	9.3 U	74 U
2,4-Dichlorophenol	ug/kg	110 U	24 U	160 U	240 U	-	21 U	51 U
2,4-Dimethylphenol	ug/kg	110 U	24 U	170 J	240 U	-	21 U	46 U
2,4-Dinitrophenol	ug/kg	120 U	25 U	170 U	250 U	-	22 U	160 U
2,4-Dinitrotoluene	ug/kg	95 U	20 U	140 U	200 U	-	18 U	71 U
2,6-Dinitrotoluene	ug/kg	120 U	25 U	170 U	250 U	-	22 U	65 U
2-Chloronaphthalene	ug/kg	2.5 U	0.53 U	3.7 U	5.4 U	-	0.47 U	16 U
2-Chlorophenol	ug/kg	46 U	9.7 U	67 U	98 U	-	8.5 U	12 U
2-Methylnaphthalene	ug/kg	26 J	75	5200	420	-	28	140 J
2-Methylphenol	ug/kg	62 U	13 U	110 J	130 U	-	11 U	36 U
2-Nitroaniline	ug/kg	51 U	11 U	75 U	110 U	-	9.5 U	46 U
2-Nitrophenol	ug/kg	47 U	9.8 U	68 U	99 U	-	8.6 U	15 U
3&4-Methylphenol	ug/kg	110 U	24 U	160 U	240 U	-	21 U	33 U
3,3'-Dichlorobenzidine	ug/kg	100 U	21 U	150 U	220 U	-	19 U	50 U
3-Nitroaniline	ug/kg	90 U	19 U	130 U	190 U	-	17 U	56 U
4,6-Dinitro-2-methylphenol	ug/kg	52 U	11 U	75 U	110 U	-	9.6 U	92 U
4-Bromophenyl phenyl ether	ug/kg	73 U	15 U	110 U	160 U	-	14 U	16 U
4-Chloro-3-methylphenol	ug/kg	120 U	25 U	170 U	250 U	-	22 U	52 U
4-Chloroaniline	ug/kg	95 U	20 U	140 U	200 U	-	18 U	35 U
4-Chlorophenyl phenyl ether	ug/kg	73 U	15 U	110 U	160 U	-	14 U	16 U
4-Nitroaniline	ug/kg	150 U	31 U	210 U	310 U	-	27 U	69 U
4-Nitrophenol	ug/kg	95 U	20 U	140 U	200 U	-	18 U	110 U
Acenaphthene	ug/kg	4.3 U	12	150	550	-	0.79 U	3.3 U
Acenaphthylene	ug/kg	2.0 U	4.6 J	98	4.2 U	-	0.36 U	6.1 J
Acetophenone	ug/kg	52 U	11 U	340 J	110 U	-	9.6 U	17 J
Anthracene	ug/kg	4.4 U	31	6.4 U	9.4 U	-	0.81 U	15 J
Atrazine	ug/kg	51 U	11 U	75 U	110 U	-	9.5 U	42 U
Benzaldehyde	ug/kg	67 U	24 J	98 U	140 U	-	12 U	27 U
Benzo(a)anthracene	ug/kg	3.5 U	250	360	7.6 U	-	15	120
Benzo(a)pyrene	ug/kg	88	390	310	7.7 U	-	15	150
Benzo(b)fluoranthene	ug/kg	120	640	480	7.1 U	-	26	290
Benzo(g,h,i)perylene	ug/kg	63	250	480	4.2 U	-	17	150
Benzo(k)fluoranthene	ug/kg	22 J	230	110	8.2 U	-	9.2	85
Biphenyl (1,1-Biphenyl)	ug/kg	20 U	19 J	480	42 U	-	5.4 J	20 U
bis(2-Chloroethoxy)methane	ug/kg	120 U	26 U	180 U	260 U	-	23 U	14 U
bis(2-Chloroethyl)ether	ug/kg	11 U	2.4 U	16 U	24 U	-	2.1 U	14 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	110 U	210	370 J	1300	-	35 J	59 U
Butyl benzylphthalate (BBP)	ug/kg	56 U	12 U	82 U	120 U	-	10 U	25 U
Caprolactam	ug/kg	210 U	44 U	300 U	440 U	-	38 U	86 U

Table 10

Summary of Analytical Results
Soil/Fill Samples - EU13
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH107-18**	**BH108-18**	**BH109-18**	**BH110-18**	**BH159-17**	**BH159-17**	**SS-54**
Sample ID:		**S-38443-011618-JC-046**	**S-38443-011218-JC-043**	**S-38443-011618-JC-044**	**S-38443-011618-JC-045**	**S-38443-121817-JC-010**	**S-38443-121817-JC-011**	**SS-38443-103018-JC-054**
Sample Date:		**1/16/2018**	**1/12/2018**	**1/16/2018**	**1/16/2018**	**12/18/2017**	**12/18/2017**	**10/30/2018**
Sample Depth:		**12-14 ft BGS**	**7-9 ft BGS**	**7.5-9.5 ft BGS**	**6.3-8.3 ft BGS**	**13-15 ft BGS**	**19-21 ft BGS**	**0.25-2.25 ft BGS**
Parameters	**Units**							
Carbazole	ug/kg	150 U	34 J	220 U	320 U	-	28 U	22 U
Chrysene	ug/kg	6.2 U	400	600	13 U	-	22	160
Dibenz(a,h)anthracene	ug/kg	3.7 U	51	5.4 U	7.9 U	-	0.69 U	49 J
Dibenzofuran	ug/kg	3.7 U	30 J	1100	7.9 U	-	0.69 U	31 J
Diethyl phthalate	ug/kg	90 U	19 J	130 U	190 U	-	20 J	36 U
Dimethyl phthalate	ug/kg	95 U	20 U	140 U	200 U	-	18 U	16 U
Di-n-butylphthalate (DBP)	ug/kg	84 U	18 U	120 U	180 U	-	16 U	25 U
Di-n-octyl phthalate (DnOP)	ug/kg	44 U	9.3 U	65 U	95 U	-	8.2 U	32 U
Fluoranthene	ug/kg	38	560	620	160	-	39	150
Fluorene	ug/kg	3.0 U	11	170	670	-	0.55 U	3.2 U
Hexachlorobenzene	ug/kg	12 U	2.5 U	17 U	25 U	-	2.2 U	3.3 U
Hexachlorobutadiene	ug/kg	31 U	6.6 U	46 U	67 U	-	5.8 U	14 U
Hexachlorocyclopentadiene	ug/kg	45 U	9.6 U	66 U	97 U	-	8.4 U	71 U
Hexachloroethane	ug/kg	51 U	11 U	74 U	110 U	-	9.4 U	10 U
Indeno(1,2,3-cd)pyrene	ug/kg	50	210	180	4.2 U	-	12	140
Isophorone	ug/kg	73 U	15 U	110 U	160 U	-	14 U	14 U
Naphthalene	ug/kg	4.6 U	63	3200	290	-	13	110 J
Nitrobenzene	ug/kg	12 U	2.6 U	18 U	26 U	-	2.3 U	15 U
N-Nitrosodi-n-propylamine	ug/kg	35 U	7.4 U	52 U	76 U	-	6.6 U	13 U
N-Nitrosodiphenylamine	ug/kg	120 U	25 U	170 U	250 U	-	22 U	14 U
Pentachlorophenol	ug/kg	51 U	11 U	75 U	110 U	-	9.5 U	67 U
Phenanthrene	ug/kg	44	320	2500	1300	-	38	110
Phenol	ug/kg	41 U	8.6 U	60 U	88 U	-	7.6 U	9.2 U
Pyrene	ug/kg	39	450	550	300	-	32	130
Metals								
Aluminum	mg/kg	6800	4900	7700	14000	-	2600	7800
Antimony	mg/kg	0.24 J	4.3	2.8	0.33 J	-	0.23 J	14 J
Arsenic	mg/kg	5.7	11	51	8.8	-	3.6	8.2 J
Barium	mg/kg	1200	660	290	84	-	44	90
Beryllium	mg/kg	0.40	0.53	1.7	0.82	-	0.15 J	0.50
Cadmium	mg/kg	0.26	4.9	1.8	0.18 J	-	0.29	1.2
Calcium	mg/kg	76000	61000	38000	3000	-	100000	47000
Chromium	mg/kg	11	39	41	20	18	45	26
Chromium III (trivalent)	mg/kg	11	39	41	20	18	45	25
Chromium VI (hexavalent)	mg/kg	0.27 U	1.4 U	1.5 U	1.4 U	1.4 U	1.3 U	0.84 J
Cobalt	mg/kg	4.4	6.9	8.3	7.6	-	2.4	6.0
Copper	mg/kg	22	670	950	16	-	20	290 J
Iron	mg/kg	11000	34000	45000	21000	-	8700	22000
Lead	mg/kg	100	730	380	14	-	110	710 J
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-
Magnesium	mg/kg	33000	21000	13000	2500	-	30000	21000 J
Manganese	mg/kg	280	470	320	620	-	910	450
Mercury	mg/kg	0.039 J	0.49	0.48	0.037 J	-	0.017 U	0.070 J

Table 10

Summary of Analytical Results
Soil/Fill Samples - EU13
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH107-18**	**BH108-18**	**BH109-18**	**BH110-18**	**BH159-17**	**BH159-17**	**SS-54**
Sample ID:		**S-38443-011618-JC-046**	**S-38443-011218-JC-043**	**S-38443-011618-JC-044**	**S-38443-011618-JC-045**	**S-38443-121817-JC-010**	**S-38443-121817-JC-011**	**SS-38443-103018-JC-054**
Sample Date:		**1/16/2018**	**1/12/2018**	**1/16/2018**	**1/16/2018**	**12/18/2017**	**12/18/2017**	**10/30/2018**
Sample Depth:		**12-14 ft BGS**	**7-9 ft BGS**	**7.5-9.5 ft BGS**	**6.3-8.3 ft BGS**	**13-15 ft BGS**	**19-21 ft BGS**	**0.25-2.25 ft BGS**
Parameters	**Units**							
Nickel	mg/kg	12	41	29	17	-	8.6	24 J
Potassium	mg/kg	920	510	730	1400	-	490	830
Selenium	mg/kg	0.47 J	0.94 J	2.8	0.94 J	-	0.27 J	0.30 J
Silver	mg/kg	0.097 J	1.3	0.48	0.027 J	-	0.091 J	0.52 J
Sodium	mg/kg	140 J	210	330	80 J	-	150 J	990
Thallium	mg/kg	0.13 J	0.11 J	1.2	0.17 J	-	0.11 J	0.14 J
Vanadium	mg/kg	16	16	30	33	-	9.2	22
Zinc	mg/kg	360	860	370	53	-	35	700 J
PCBs								
Aroclor-1016 (PCB-1016)	ug/kg	26 U	25 U	140 U	27 U	-	23 U	25 U
Aroclor-1221 (PCB-1221)	ug/kg	28 U	27 U	150 U	29 U	-	25 U	27 U
Aroclor-1232 (PCB-1232)	ug/kg	27 U	26 U	150 U	28 U	-	24 U	26 U
Aroclor-1242 (PCB-1242)	ug/kg	22 U	22 U	120 U	23 U	-	20 U	21 U
Aroclor-1248 (PCB-1248)	ug/kg	28 U	27 U	150 U	29 U	-	25 U	27 U
Aroclor-1254 (PCB-1254)	ug/kg	27 U	180	1100	28 U	-	24 U	26 U
Aroclor-1260 (PCB-1260)	ug/kg	26 U	25 U	140 U	27 U	-	23 U	54 J
Pesticides								
4,4'-DDD	ug/kg	190 U	19 U	41 U	41 U	-	36 J	17 U
4,4'-DDE	ug/kg	67 U	6.8 U	15 U	15 U	-	13 U	17 U
4,4'-DDT	ug/kg	79 U	8.0 U	17 U	17 U	-	15 U	13 U
Aldrin	ug/kg	130 U	14 U	30 U	29 U	-	25 U	8.6 U
alpha-BHC	ug/kg	90 U	9.1 U	20 U	20 U	-	17 U	10 U
alpha-Chlordane	ug/kg	210 U	22 U	47 U	47 U	-	40 U	17 U
beta-BHC	ug/kg	220 U	22 U	48 U	48 U	-	41 U	19 U
delta-BHC	ug/kg	73 U	7.4 U	16 U	16 U	-	14 U	19 U
Dieldrin	ug/kg	50 U	5.1 U	11 U	11 U	-	9.4 U	12 U
Endosulfan I	ug/kg	73 U	7.4 U	16 U	16 U	-	14 U	13 U
Endosulfan II	ug/kg	100 U	10 U	22 U	22 U	-	19 U	17 U
Endosulfan sulfate	ug/kg	67 U	6.8 U	15 U	15 U	-	13 U	14 U
Endrin	ug/kg	79 U	8.0 U	17 U	17 U	-	15 U	21 U
Endrin aldehyde	ug/kg	100 U	10 U	22 U	22 U	-	19 U	15 U
Endrin ketone	ug/kg	62 U	6.3 U	14 U	14 U	-	12 U	9.9 U
gamma-BHC (lindane)	ug/kg	160 U	16 U	36 U	36 U	-	30 U	20 U
gamma-Chlordane	ug/kg	84 U	8.5 U	19 U	18 U	-	16 U	14 U
Heptachlor	ug/kg	44 U	4.4 U	9.7 U	9.6 U	-	8.2 U	18 U
Heptachlor epoxide	ug/kg	130 U	14 U	30 U	29 U	-	25 U	16 U
Methoxychlor	ug/kg	67 U	7.1 NJ	15 U	15 U	-	13 U	73 U
Toxaphene	ug/kg	2100 U	210 U	460 U	450 U	-	390 U	280 U
Herbicides								
2,4,5-T	ug/kg	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/kg	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	-	-	-	-	-	-	-

Table 10

Summary of Analytical Results
Soil/Fill Samples - EU13
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH107-18**	**BH108-18**	**BH109-18**	**BH110-18**	**BH159-17**	**BH159-17**	**SS-54**
Sample ID:		**S-38443-011618-JC-046**	**S-38443-011218-JC-043**	**S-38443-011618-JC-044**	**S-38443-011618-JC-045**	**S-38443-121817-JC-010**	**S-38443-121817-JC-011**	**SS-38443-103018-JC-054**
Sample Date:		**1/16/2018**	**1/12/2018**	**1/16/2018**	**1/16/2018**	**12/18/2017**	**12/18/2017**	**10/30/2018**
Sample Depth:		**12-14 ft BGS**	**7-9 ft BGS**	**7.5-9.5 ft BGS**	**6.3-8.3 ft BGS**	**13-15 ft BGS**	**19-21 ft BGS**	**0.25-2.25 ft BGS**
Parameters	**Units**							
Dioxin/Furans								
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Asbestos								
Asbestos	%	ND	ND	ND	ND	ND	ND	-
Chrysotile asbestos	%	-	-	-	-	-	-	-
General Chemistry								
Cyanide (total)	mg/kg	0.055 U	0.47 U	2.9	0.058 U	-	0.051 J	0.22 U

Notes
< - Less than reported value.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 10

Summary of Analytical Results
Soil/Fill Samples - EU13
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-54**	**SS-55**	**SS-55**	**SS-56**	**SS-57**	**SS-58**	**SS-59**
Sample ID:		**SS-38443-103018-JC-117**	**SS-38443-102918-JC-055**	**SS-38443-102918-JC-115**	**SS-38443-103018-JC-056**	**SS-38443-103018-JC-057**	**S-38443-110317-BW-021**	**SS-38443-103018-JC-059**
Sample Date:		**10/30/2018**	**10/29/2018**	**10/29/2018**	**10/30/2018**	**10/30/2018**	**11/3/2017**	**10/30/2018**
Sample Depth:		**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
		Duplicate		**Duplicate**				
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/kg	16 U	49 U	2.1 J	20 U	33 UJ	0.84 U	R
1,1,2,2-Tetrachloroethane	ug/kg	16 U	49 U	R	20 U	33 UJ	0.95 U	R
1,1,2-Trichloroethane	ug/kg	15 U	45 U	R	18 U	31 UJ	1.4 U	R
1,1-Dichloroethane	ug/kg	10 UJ	31 U	25 J	13 UJ	21 UJ	1.2 U	R
1,1-Dichloroethene	ug/kg	17 UJ	52 U	R	21 UJ	35 UJ	2.0 U	R
1,2,4-Trichlorobenzene	ug/kg	150 U	460 U	R	190 U	310 UJ	0.88 U	R
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	100 U	310 U	R	120 U	210 UJ	2.5 U	R
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	91 U	270 U	R	110 U	190 UJ	1.3 U	R
1,2-Dichlorobenzene	ug/kg	24 U	73 U	R	29 U	49 UJ	0.81 U	R
1,2-Dichloroethane	ug/kg	14 U	42 U	R	17 U	28 UJ	1.1 U	R
1,2-Dichloropropane	ug/kg	9.3 UJ	28 U	R	11 UJ	19 UJ	1.1 U	R
1,3-Dichlorobenzene	ug/kg	24 U	73 U	R	29 U	49 UJ	1.1 U	R
1,4-Dichlorobenzene	ug/kg	20 U	59 U	R	24 U	40 UJ	1.3 U	R
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	180 U	550 U	22 J	220 U	370 UJ	4.7 U	510 J
2-Hexanone	ug/kg	300 U	910 U	R	370 U	620 UJ	2.1 U	R
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	280 U	830 U	R	330 U	560 UJ	3.3 U	R
Acetone	ug/kg	280 U	850 U	R	340 U	570 UJ	11 U	1200 J
Benzene	ug/kg	9.3 UJ	28 U	R	11 UJ	19 UJ	1.2 U	190 J
Bromodichloromethane	ug/kg	32 U	97 U	R	39 U	66 UJ	1.2 U	R
Bromoform	ug/kg	120 U	370 U	R	150 U	250 UJ	1.5 U	R
Bromomethane (Methyl bromide)	ug/kg	190 U	580 U	R	230 U	390 UJ	2.2 UJ	R
Carbon disulfide	ug/kg	130 UJ	380 U	R	150 UJ	250 UJ	0.77 U	R
Carbon tetrachloride	ug/kg	21 U	63 U	R	25 U	42 UJ	0.92 U	R
Chlorobenzene	ug/kg	41 U	120 U	R	49 U	82 UJ	1.2 U	920 J
Chloroethane	ug/kg	170 U	520 U	R	210 U	350 UJ	1.4 U	R
Chloroform (Trichloromethane)	ug/kg	10 U	31 U	R	13 U	21 UJ	0.84 U	R
Chloromethane (Methyl chloride)	ug/kg	76 UJ	230 U	R	92 UJ	160 UJ	1.4 U	R
cis-1,2-Dichloroethene	ug/kg	10 UJ	31 U	32 J	130 J	390 J	1.0 U	51 J
cis-1,3-Dichloropropene	ug/kg	43 UJ	130 U	R	52 UJ	87 UJ	0.95 U	R
Cyclohexane	ug/kg	190 UJ	570 U	R	230 UJ	380 UJ	0.77 U	1400 J
Dibromochloromethane	ug/kg	140 U	410 U	R	160 U	280 UJ	1.1 U	R
Dichlorodifluoromethane (CFC-12)	ug/kg	R	180 U	R	R	R	1.3 U	R
Ethylbenzene	ug/kg	18 U	42 U	R	21 U	33 UJ	0.99 U	4000 J
Isopropyl benzene	ug/kg	44 U	130 U	R	53 U	89 UJ	0.73 U	2700 J
Methyl acetate	ug/kg	610 U	1800 U	R	730 U	1200 UJ	4.3 U	R
Methyl cyclohexane	ug/kg	76 UJ	230 U	3.7 J	92 UJ	160 UJ	0.84 U	11000 J
Methyl tert butyl ether (MTBE)	ug/kg	43 U	130 U	R	52 U	87 UJ	0.99 U	R
Methylene chloride	ug/kg	440 U	1300 U	R	530 U	900 UJ	0.88 U	R
Styrene	ug/kg	14 U	42 U	R	17 U	28 UJ	0.99 U	R
Tetrachloroethene	ug/kg	42 U	230 J	R	55 U	41 UJ	1.4 U	R
Toluene	ug/kg	108 U	220 U	3.1 J	119 U	190 U	1.2 U	1100 J
trans-1,2-Dichloroethene	ug/kg	17 UJ	52 U	10 J	21 UJ	66 J	1.4 U	R
trans-1,3-Dichloropropene	ug/kg	120 U	360 U	R	150 U	250 UJ	0.77 U	R
Trichloroethene	ug/kg	1500 J	180 J	35 J	4000 J	13000 J	1.5 U	R
Trichlorofluoromethane (CFC-11)	ug/kg	53 UJ	160 U	R	64 UJ	110 UJ	0.88 U	R

Table 10

Summary of Analytical Results
Soil/Fill Samples - EU13
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-54**	**SS-55**	**SS-55**	**SS-56**	**SS-57**	**SS-58**	**SS-59**
Sample ID:		**SS-38443-103018-JC-117**	**SS-38443-102918-JC-055**	**SS-38443-102918-JC-115**	**SS-38443-103018-JC-056**	**SS-38443-103018-JC-057**	**S-38443-110317-BW-021**	**SS-38443-103018-JC-059**
Sample Date:		**10/30/2018**	**10/29/2018**	**10/29/2018**	**10/30/2018**	**10/30/2018**	**11/3/2017**	**10/30/2018**
Sample Depth:		**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
		Duplicate		**Duplicate**				
Parameters	**Units**							
Trifluorotrichloroethane (CFC-113)	ug/kg	78 U	230 U	R	93 U	160 UJ	1.8 U	R
Vinyl chloride	ug/kg	12 UJ	35 U	4.9 J	14 UJ	24 UJ	1.0 U	R
Xylenes (total)	ug/kg	27 U	80 U	R	32 U	54 UJ	1.5 U	14000 J
Semi-Volatiles								
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	11 U	17 U	16 U	120 U	15 U	13 U	910 U
2,4,5-Trichlorophenol	ug/kg	76 U	R	110 UJ	830 U	100 U	35 U	6300 U
2,4,6-Trichlorophenol	ug/kg	71 U	R	110 UJ	770 U	96 U	12 U	5800 U
2,4-Dichlorophenol	ug/kg	49 U	R	72 UJ	530 U	66 U	28 U	4000 U
2,4-Dimethylphenol	ug/kg	44 U	R	66 UJ	480 U	60 U	28 U	3600 U
2,4-Dinitrophenol	ug/kg	160 U	R	230 UJ	1700 U	210 U	29 U	13000 U
2,4-Dinitrotoluene	ug/kg	69 U	100 U	100 U	750 U	93 U	24 U	5600 U
2,6-Dinitrotoluene	ug/kg	62 U	94 U	92 U	680 U	84 U	29 U	5100 U
2-Chloronaphthalene	ug/kg	15 U	23 U	23 U	170 U	21 U	0.63 U	1300 U
2-Chlorophenol	ug/kg	11 U	R	16 UJ	120 U	15 U	12 U	910 U
2-Methylnaphthalene	ug/kg	28 J	3.3 UJ	130 J	210	5.0 J	420	8600
2-Methylphenol	ug/kg	34 U	R	51 UJ	370 U	47 U	15 U	2800 U
2-Nitroaniline	ug/kg	44 U	67 U	66 U	480 U	60 U	13 U	3600 U
2-Nitrophenol	ug/kg	14 U	R	21 UJ	160 U	20 U	12 U	1200 U
3&4-Methylphenol	ug/kg	32 U	R	48 UJ	350 U	44 U	28 U	2600 U
3,3'-Dichlorobenzidine	ug/kg	48 U	72 U	71 U	520 U	65 U	25 U	3900 U
3-Nitroaniline	ug/kg	54 U	82 U	81 U	590 U	74 U	22 U	4500 U
4,6-Dinitro-2-methylphenol	ug/kg	88 U	R	130 UJ	970 U	120 U	13 U	7300 U
4-Bromophenyl phenyl ether	ug/kg	15 U	23 U	23 U	170 U	21 U	18 U	1300 U
4-Chloro-3-methylphenol	ug/kg	50 U	R	74 UJ	540 U	68 U	29 U	4100 U
4-Chloroaniline	ug/kg	33 U	50 U	49 U	360 U	45 U	24 U	2700 U
4-Chlorophenyl phenyl ether	ug/kg	15 U	23 U	23 U	170 U	21 U	18 U	1300 U
4-Nitroaniline	ug/kg	66 U	100 U	99 U	730 U	90 U	36 U	5500 U
4-Nitrophenol	ug/kg	100 U	R	150 UJ	1100 U	140 U	24 U	8600 U
Acenaphthene	ug/kg	3.2 U	4.8 U	4.7 U	590	4.3 U	1.1 U	340 J
Acenaphthylene	ug/kg	7.4 J	6.7 U	6.6 U	63 J	6.0 U	0.49 U	370 U
Acetophenone	ug/kg	12 U	18 U	19 J	130 U	17 U	43 J	1000 U
Anthracene	ug/kg	25	4.0 U	19 J	1700	3.6 U	1.1 U	220 U
Atrazine	ug/kg	40 U	60 U	59 U	440 U	54 U	13 U	3300 U
Benzaldehyde	ug/kg	25 U	38 U	38 U	280 U	35 U	55 J	2100 U
Benzo(a)anthracene	ug/kg	230	5.7 UJ	75 J	5200	5.1 U	61	650 J
Benzo(a)pyrene	ug/kg	290	16 UJ	63 J	5200	15 J	46	850 U
Benzo(b)fluoranthene	ug/kg	610	11 UJ	87 J	8000	10 J	67	660 J
Benzo(g,h,i)perylene	ug/kg	290	12 UJ	41 J	3600	11 U	33	650 U
Benzo(k)fluoranthene	ug/kg	180	12 U	28	3000	10 U	22	630 U
Biphenyl (1,1-Biphenyl)	ug/kg	19 J	28 U	28 U	210 U	26 U	65 J	1500 U
bis(2-Chloroethoxy)methane	ug/kg	13 U	20 U	20 U	150 U	18 U	31 U	1100 U
bis(2-Chloroethyl)ether	ug/kg	13 U	20 U	20 U	150 U	18 U	2.8 U	1100 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	78	85 U	110 J	620 U	77 U	48 U	10000
Butyl benzylphthalate (BBP)	ug/kg	24 U	37 U	36 U	270 U	33 U	14 U	2000 U
Caprolactam	ug/kg	83 U	130 U	120 U	910 U	110 U	52 U	6800 U

Table 10

Summary of Analytical Results
Soil/Fill Samples - EU13
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-54**	**SS-55**	**SS-55**	**SS-56**	**SS-57**	**SS-58**	**SS-59**
Sample ID:		**SS-38443-103018-JC-117**	**SS-38443-102918-JC-055**	**SS-38443-102918-JC-115**	**SS-38443-103018-JC-056**	**SS-38443-103018-JC-057**	**S-38443-110317-BW-021**	**SS-38443-103018-JC-059**
Sample Date:		**10/30/2018**	**10/29/2018**	**10/29/2018**	**10/30/2018**	**10/30/2018**	**11/3/2017**	**10/30/2018**
Sample Depth:		**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
		Duplicate		**Duplicate**				
Parameters	**Units**							
Carbazole	ug/kg	21 J	32 U	31 U	1100	29 U	38 U	1700 U
Chrysene	ug/kg	310	2.5 UJ	86 J	5700	12 J	75	1200 J
Dibenz(a,h)anthracene	ug/kg	97 J	12 U	15 J	920	10 U	0.93 U	630 U
Dibenzofuran	ug/kg	18 J	22 U	29 J	430 J	20 U	130	1200 U
Diethyl phthalate	ug/kg	34 U	52 U	51 U	370 U	47 U	22 U	2800 U
Dimethyl phthalate	ug/kg	15 U	23 U	23 U	170 U	21 U	24 U	1300 U
Di-n-butylphthalate (DBP)	ug/kg	24 U	37 U	36 U	270 U	33 U	37 J	3600 J
Di-n-octyl phthalate (DnOP)	ug/kg	31 U	47 U	46 U	340 U	42 U	11 U	2500 U
Fluoranthene	ug/kg	320	7.4 UJ	140 J	11000	15 J	69	1100 J
Fluorene	ug/kg	6.1 J	4.6 U	16 J	580	4.1 U	0.74 U	420 J
Hexachlorobenzene	ug/kg	3.2 U	4.8 U	4.7 U	34 U	4.3 U	2.9 U	260 U
Hexachlorobutadiene	ug/kg	13 U	20 U	20 U	150 U	18 U	7.9 U	1100 U
Hexachlorocyclopentadiene	ug/kg	69 U	100 U	100 U	750 U	93 U	11 U	5600 U
Hexachloroethane	ug/kg	9.9 U	15 U	15 U	110 U	14 U	13 U	820 U
Indeno(1,2,3-cd)pyrene	ug/kg	270	12 UJ	42 J	3100	11 U	17	670 U
Isophorone	ug/kg	13 U	20 U	20 U	150 U	18 U	18 U	1100 U
Naphthalene	ug/kg	31 J	4.0 UJ	96 J	390	3.6 U	230	4200
Nitrobenzene	ug/kg	14 U	22 U	21 U	160 U	20 U	3.1 U	1200 U
N-Nitrosodi-n-propylamine	ug/kg	12 U	18 U	18 U	130 U	17 U	8.8 U	1000 U
N-Nitrosodiphenylamine	ug/kg	13 U	20 U	20 U	150 U	18 U	29 U	1100 U
Pentachlorophenol	ug/kg	64 U	R	96 UJ	700 U	87 U	13 U	5300 UJ
Phenanthrene	ug/kg	170	3.7 UJ	140 J	7800	17 J	320	4100
Phenol	ug/kg	8.8 U	R	13 UJ	97 U	12 U	10 U	6600
Pyrene	ug/kg	260	3.6 UJ	110 J	8900	15 J	80	2000
Metals								
Aluminum	mg/kg	6200	5400	5200	8400	7100	1700 J	4500
Antimony	mg/kg	1400 J	1.0	1.3	18 J	0.68 J	0.33 UJ	0.59 J
Arsenic	mg/kg	59 J	20	17	23	19	7.9	3.6
Barium	mg/kg	100	310	170	1800	770	57	55
Beryllium	mg/kg	0.48	6.0	5.2	1.2	3.1	0.56	0.42
Cadmium	mg/kg	2.4	0.10 J	0.32	13	0.16 U	0.44	0.36
Calcium	mg/kg	16000	3900	11000	42000	1400	1600	120000
Chromium	mg/kg	30	16	20	91	24	3.5	8.5
Chromium III (trivalent)	mg/kg	30	16	20	91	22	-	8.5
Chromium VI (hexavalent)	mg/kg	0.27 U	0.40 U	0.40 U	0.29 U	1.4	-	1.3 U
Cobalt	mg/kg	5.7	14	12	17	8.1	2.9	2.2
Copper	mg/kg	1600 J	49	72	1600	44	12	54
Iron	mg/kg	28000	7500	17000	76000	4800	7200	6400
Lead	mg/kg	26000 J	28	55	1900 J	38 J	2.9	190 J
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	6300
Lead - fine fraction	mg/kg	-	-	-	-	-	-	5300
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	6300
Magnesium	mg/kg	6300 J	360	3700	10000	420	290	38000
Manganese	mg/kg	490	19	140	580	20	150	560
Mercury	mg/kg	0.12	0.12 J	0.12 J	0.57	0.18	0.039 J	0.19

Table 10

Summary of Analytical Results
Soil/Fill Samples - EU13
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-54**	**SS-55**	**SS-55**	**SS-56**	**SS-57**	**SS-58**	**SS-59**
Sample ID:		**SS-38443-103018-JC-117**	**SS-38443-102918-JC-055**	**SS-38443-102918-JC-115**	**SS-38443-103018-JC-056**	**SS-38443-103018-JC-057**	**S-38443-110317-BW-021**	**SS-38443-103018-JC-059**
Sample Date:		**10/30/2018**	**10/29/2018**	**10/29/2018**	**10/30/2018**	**10/30/2018**	**11/3/2017**	**10/30/2018**
Sample Depth:		**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
		Duplicate		**Duplicate**				
Parameters	**Units**							
Nickel	mg/kg	210 J	24	24	100	17	10	6.0
Potassium	mg/kg	580	320	350	890	1000	210 U	650
Selenium	mg/kg	0.37 J	0.94 J	1.0 J	3.4	2.4	1.2 J	0.16 J
Silver	mg/kg	6.8 J	0.051 J	0.097 J	28	0.16 J	0.018 J	0.083 J
Sodium	mg/kg	840 J	140 J	140 J	420	370	60 U	450
Thallium	mg/kg	0.16 J	1.1	0.59	0.25	0.28	0.21 J	0.067 U
Vanadium	mg/kg	17	45	34	31	36	7.8	9.1
Zinc	mg/kg	1600 J	14	66	3100 J	87 J	47	36 J
PCBs								
Aroclor-1016 (PCB-1016)	ug/kg	24 U	37 U	35 U	26 U	32 U	34 UJ	2200 U
Aroclor-1221 (PCB-1221)	ug/kg	26 U	40 U	38 U	29 U	35 U	33 U	2400 U
Aroclor-1232 (PCB-1232)	ug/kg	25 U	38 U	36 U	28 U	34 U	23 U	2300 U
Aroclor-1242 (PCB-1242)	ug/kg	21 U	32 U	30 U	23 U	28 U	29 U	1900 U
Aroclor-1248 (PCB-1248)	ug/kg	26 U	40 U	38 U	29 U	35 U	24 U	2400 U
Aroclor-1254 (PCB-1254)	ug/kg	25 U	75 J	49 J	63	700	20 U	140000
Aroclor-1260 (PCB-1260)	ug/kg	110	37 U	35 U	26 U	32 U	26 U	2200 U
Pesticides								
4,4'-DDD	ug/kg	1.6 U	43 J	34 NJ	18 U	22 U	48 U	150 U
4,4'-DDE	ug/kg	1.6 U	25 U	12 U	18 U	22 U	18 U	150 U
4,4'-DDT	ug/kg	3.5 NJ	19 U	34 J	14 U	40 J	20 U	120 U
Aldrin	ug/kg	0.84 U	13 U	6.1 U	9.3 U	11 U	35 U	79 U
alpha-BHC	ug/kg	0.99 U	15 U	7.2 U	11 U	13 U	23 U	93 U
alpha-Chlordane	ug/kg	1.6 U	25 U	12 U	18 U	22 U	56 U	150 U
beta-BHC	ug/kg	1.9 U	29 U	14 U	21 U	25 U	57 U	180 U
delta-BHC	ug/kg	1.8 U	28 U	13 U	20 U	25 U	19 U	170 U
Dieldrin	ug/kg	1.2 U	18 U	8.7 U	13 U	16 U	13 U	110 U
Endosulfan I	ug/kg	1.3 U	20 U	9.5 U	14 U	18 U	19 U	120 U
Endosulfan II	ug/kg	1.6 U	25 U	12 U	18 U	22 U	26 U	150 U
Endosulfan sulfate	ug/kg	1.4 U	21 U	10 U	15 U	19 U	18 U	130 U
Endrin	ug/kg	2.1 U	32 U	15 U	23 U	28 U	20 U	190 U
Endrin aldehyde	ug/kg	1.4 U	22 U	10 U	16 U	19 U	26 U	280 J
Endrin ketone	ug/kg	0.97 U	15 U	17 J	11 U	13 U	16 U	91 U
gamma-BHC (lindane)	ug/kg	1.9 U	30 U	14 U	22 U	26 U	42 U	180 U
gamma-Chlordane	ug/kg	1.3 U	21 U	9.8 U	15 U	18 U	22 U	130 U
Heptachlor	ug/kg	1.7 U	26 U	13 U	19 U	23 U	11 U	160 U
Heptachlor epoxide	ug/kg	1.6 U	24 U	11 U	17 U	21 U	35 U	150 U
Methoxychlor	ug/kg	7.1 U	110 UJ	52 UJ	79 U	97 U	18 U	670 U
Toxaphene	ug/kg	27 U	420 U	200 U	300 U	370 U	540 U	2600 U
Herbicides								
2,4,5-T	ug/kg	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/kg	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	-	-	-	-	-	-	-

Table 10

Summary of Analytical Results
Soil/Fill Samples - EU13
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-54**	**SS-55**	**SS-55**	**SS-56**	**SS-57**	**SS-58**	**SS-59**
Sample ID:		**SS-38443-103018-JC-117**	**SS-38443-102918-JC-055**	**SS-38443-102918-JC-115**	**SS-38443-103018-JC-056**	**SS-38443-103018-JC-057**	**S-38443-110317-BW-021**	**SS-38443-103018-JC-059**
Sample Date:		**10/30/2018**	**10/29/2018**	**10/29/2018**	**10/30/2018**	**10/30/2018**	**11/3/2017**	**10/30/2018**
Sample Depth:		**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
		Duplicate		**Duplicate**				
Parameters	**Units**							
Dioxin/Furans								
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Asbestos								
Asbestos	%	-	-	-	-	-	-	-
Chrysotile asbestos	%	-	-	-	-	-	-	-
General Chemistry								
Cyanide (total)	mg/kg	0.23 U	0.41 J	0.33 U	0.77	1.7	1.9 J	0.22 U

Notes
< - Less than reported value.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 10

Summary of Analytical Results
Soil/Fill Samples - EU13
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-60**	**SS-61**	**SS-94**	**SS-168-AS**	**TT-40**	**TT-40**
Sample ID:		**SS-38443-103018-JC-060**	**SS-38443-103018-JC-061**	**SS-38443-103018-JC-094**	**SS-38443-103018-JC-168**	**TT-40**	**S-38443-110317-BW-022**
Sample Date:		**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**11/3/2017**	**11/3/2017**
Sample Depth:		**0.17-2.17 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-0.5 ft BGS**	**2-4 ft BGS**	**6-8 ft BGS**
Parameters	**Units**						
Volatiles							
1,1,1-Trichloroethane	ug/kg	39 UJ	0.95 U	-	-	-	160 U
1,1,2,2-Tetrachloroethane	ug/kg	39 UJ	R	-	-	-	140 U
1,1,2-Trichloroethane	ug/kg	36 UJ	1.3 U	-	-	-	130 U
1,1-Dichloroethane	ug/kg	25 UJ	0.81 U	-	-	-	180 U
1,1-Dichloroethene	ug/kg	42 UJ	1.1 U	-	-	-	210 U
1,2,4-Trichlorobenzene	ug/kg	370 UJ	R	-	-	-	150 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	240 UJ	R	-	-	-	280 U
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	220 UJ	0.90 U	-	-	-	130 U
1,2-Dichlorobenzene	ug/kg	58 UJ	R	-	-	-	100 U
1,2-Dichloroethane	ug/kg	33 UJ	0.90 U	-	-	-	170 U
1,2-Dichloropropane	ug/kg	22 UJ	0.99 U	-	-	-	170 U
1,3-Dichlorobenzene	ug/kg	58 UJ	R	-	-	-	220 U
1,4-Dichlorobenzene	ug/kg	47 UJ	R	-	-	-	160 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	440 UJ	4.1 U	-	-	-	290 U
2-Hexanone	ug/kg	730 UJ	4.7 U	-	-	-	490 UJ
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	660 UJ	4.3 U	-	-	-	230 UJ
Acetone	ug/kg	680 UJ	24 U	-	-	-	560 U
Benzene	ug/kg	22 UJ	0.81 U	-	-	-	140 U
Bromodichloromethane	ug/kg	78 UJ	0.79 U	-	-	-	100 U
Bromoform	ug/kg	290 UJ	2.8 U	-	-	-	130 U
Bromomethane (Methyl bromide)	ug/kg	460 UJ	1.1 U	-	-	-	160 U
Carbon disulfide	ug/kg	300 UJ	1.4 U	-	-	-	100 U
Carbon tetrachloride	ug/kg	50 UJ	3.8 U	-	-	-	160 U
Chlorobenzene	ug/kg	97 UJ	1.1 U	-	-	-	170 U
Chloroethane	ug/kg	420 UJ	1.4 U	-	-	-	160 U
Chloroform (Trichloromethane)	ug/kg	25 UJ	0.92 U	-	-	-	140 U
Chloromethane (Methyl chloride)	ug/kg	180 UJ	1.2 U	-	-	-	100 U
cis-1,2-Dichloroethene	ug/kg	25 UJ	0.76 U	-	-	-	200 U
cis-1,3-Dichloropropene	ug/kg	100 UJ	1.7 U	-	-	-	130 U
Cyclohexane	ug/kg	450 UJ	1.6 U	-	-	-	170 U
Dibromochloromethane	ug/kg	320 UJ	3.2 U	-	-	-	200 U
Dichlorodifluoromethane (CFC-12)	ug/kg	R	1.1 U	-	-	-	130 U
Ethylbenzene	ug/kg	46 UJ	1.2 U	-	-	-	200 U
Isopropyl benzene	ug/kg	110 UJ	0.97 U	-	-	-	200 U
Methyl acetate	ug/kg	1500 UJ	4.0 U	-	-	-	430 U
Methyl cyclohexane	ug/kg	180 UJ	1.4 U	-	-	-	210 U
Methyl tert butyl ether (MTBE)	ug/kg	100 UJ	0.95 U	-	-	-	150 U
Methylene chloride	ug/kg	1100 UJ	14 U	-	-	-	370 U
Styrene	ug/kg	33 UJ	1.3 U	-	-	-	57 U
Tetrachloroethene	ug/kg	7200 J	0.85 U	-	-	-	120 U
Toluene	ug/kg	290 U	0.90 U	-	-	-	140 U
trans-1,2-Dichloroethene	ug/kg	42 UJ	0.54 U	-	-	-	200 U
trans-1,3-Dichloropropene	ug/kg	290 UJ	1.2 U	-	-	-	86 U
Trichloroethene	ug/kg	270 J	5.3 J	-	-	-	210 U
Trichlorofluoromethane (CFC-11)	ug/kg	130 UJ	1.3 U	-	-	-	200 U

Table 10

Summary of Analytical Results
Soil/Fill Samples - EU13
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-60**	**SS-61**	**SS-94**	**SS-168-AS**	**TT-40**	**TT-40**
Sample ID:		**SS-38443-103018-JC-060**	**SS-38443-103018-JC-061**	**SS-38443-103018-JC-094**	**SS-38443-103018-JC-168**	**TT-40**	**S-38443-110317-BW-022**
Sample Date:		**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**11/3/2017**	**11/3/2017**
Sample Depth:		**0.17-2.17 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-0.5 ft BGS**	**2-4 ft BGS**	**6-8 ft BGS**
Parameters	**Units**						
Trifluorotrichloroethane (CFC-113)	ug/kg	190 UJ	1.5 U	-	-	-	130 U
Vinyl chloride	ug/kg	28 UJ	0.97 U	-	-	-	98 U
Xylenes (total)	ug/kg	64 UJ	1.8 U	-	-	-	160 J
Semi-Volatiles							
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	13 U	43 U	-	-	-	110 U
2,4,5-Trichlorophenol	ug/kg	91 UJ	300 U	-	-	-	290 U
2,4,6-Trichlorophenol	ug/kg	85 UJ	280 U	-	-	-	100 U
2,4-Dichlorophenol	ug/kg	58 UJ	190 U	-	-	-	230 U
2,4-Dimethylphenol	ug/kg	53 UJ	170 U	-	-	-	230 U
2,4-Dinitrophenol	ug/kg	190 UJ	610 U	-	-	-	240 U
2,4-Dinitrotoluene	ug/kg	82 U	270 U	-	-	-	200 U
2,6-Dinitrotoluene	ug/kg	74 U	240 U	-	-	-	240 U
2-Chloronaphthalene	ug/kg	19 U	61 U	-	-	-	5.2 U
2-Chlorophenol	ug/kg	13 UJ	43 U	-	-	-	95 U
2-Methylnaphthalene	ug/kg	210	310	-	-	-	8800
2-Methylphenol	ug/kg	41 UJ	130 U	-	-	-	130 U
2-Nitroaniline	ug/kg	53 U	170 U	-	-	-	110 U
2-Nitrophenol	ug/kg	17 UJ	56 U	-	-	-	96 U
3&4-Methylphenol	ug/kg	38 UJ	130 U	-	-	-	230 U
3,3'-Dichlorobenzidine	ug/kg	57 U	190 U	-	-	-	210 U
3-Nitroaniline	ug/kg	65 U	210 U	-	-	-	190 U
4,6-Dinitro-2-methylphenol	ug/kg	110 UJ	350 U	-	-	-	110 U
4-Bromophenyl phenyl ether	ug/kg	19 U	61 U	-	-	-	150 U
4-Chloro-3-methylphenol	ug/kg	60 UJ	190 U	-	-	-	240 U
4-Chloroaniline	ug/kg	40 U	130 U	-	-	-	200 U
4-Chlorophenyl phenyl ether	ug/kg	19 U	61 U	-	-	-	150 U
4-Nitroaniline	ug/kg	80 U	260 U	-	-	-	300 U
4-Nitrophenol	ug/kg	120 UJ	410 U	-	-	-	200 U
Acenaphthene	ug/kg	3.8 U	12 U	-	-	-	360
Acenaphthylene	ug/kg	5.3 U	190	-	-	-	4.1 U
Acetophenone	ug/kg	15 U	48 U	-	-	-	110 U
Anthracene	ug/kg	9.7 J	300	-	-	-	9.0 U
Atrazine	ug/kg	48 U	160 U	-	-	-	110 U
Benzaldehyde	ug/kg	30 U	100 U	-	-	-	140 U
Benzo(a)anthracene	ug/kg	30	1500	-	-	-	82
Benzo(a)pyrene	ug/kg	28	1100	-	-	-	110
Benzo(b)fluoranthene	ug/kg	47	2900	-	-	-	110
Benzo(g,h,i)perylene	ug/kg	40	880	-	-	-	4.1 U
Benzo(k)fluoranthene	ug/kg	11 J	840	-	-	-	7.9 U
Biphenyl (1,1-Biphenyl)	ug/kg	23 J	74 U	-	-	-	1600
bis(2-Chloroethoxy)methane	ug/kg	16 U	52 U	-	-	-	260 U
bis(2-Chloroethyl)ether	ug/kg	16 U	52 U	-	-	-	23 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	79 J	220 U	-	-	-	520 U
Butyl benzylphthalate (BBP)	ug/kg	29 U	95 U	-	-	-	120 U
Caprolactam	ug/kg	99 U	320 U	-	-	-	430 U

Table 10

Summary of Analytical Results
Soil/Fill Samples - EU13
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-60**	**SS-61**	**SS-94**	**SS-168-AS**	**TT-40**	**TT-40**
Sample ID:		**SS-38443-103018-JC-060**	**SS-38443-103018-JC-061**	**SS-38443-103018-JC-094**	**SS-38443-103018-JC-168**	**TT-40**	**S-38443-110317-BW-022**
Sample Date:		**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**11/3/2017**	**11/3/2017**
Sample Depth:		**0.17-2.17 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-0.5 ft BGS**	**2-4 ft BGS**	**6-8 ft BGS**
Parameters	**Units**						
Carbazole	ug/kg	25 U	170 J	-	-	-	310 U
Chrysene	ug/kg	50	2000	-	-	-	120
Dibenz(a,h)anthracene	ug/kg	9.2 U	310	-	-	-	7.7 U
Dibenzofuran	ug/kg	54 J	120 J	-	-	-	320 J
Diethyl phthalate	ug/kg	41 U	130 U	-	-	-	190 U
Dimethyl phthalate	ug/kg	19 U	61 U	-	-	-	200 U
Di-n-butylphthalate (DBP)	ug/kg	29 U	310	-	-	-	170 U
Di-n-octyl phthalate (DnOP)	ug/kg	37 U	120 U	-	-	-	92 U
Fluoranthene	ug/kg	55	2300	-	-	-	260
Fluorene	ug/kg	3.6 U	79	-	-	-	600
Hexachlorobenzene	ug/kg	3.8 U	12 U	-	-	-	24 U
Hexachlorobutadiene	ug/kg	16 U	52 U	-	-	-	65 U
Hexachlorocyclopentadiene	ug/kg	82 U	270 U	-	-	-	94 U
Hexachloroethane	ug/kg	12 U	39 U	-	-	-	100 U
Indeno(1,2,3-cd)pyrene	ug/kg	9.8 U	820	-	-	-	4.1 U
Isophorone	ug/kg	16 U	52 U	-	-	-	150 U
Naphthalene	ug/kg	140	290	-	-	-	11000
Nitrobenzene	ug/kg	17 U	56 U	-	-	-	26 U
N-Nitrosodi-n-propylamine	ug/kg	15 U	48 U	-	-	-	73 U
N-Nitrosodiphenylamine	ug/kg	16 U	52 U	-	-	-	240 U
Pentachlorophenol	ug/kg	77 UJ	250 U	-	-	-	110 U
Phenanthrene	ug/kg	160	1100	-	-	-	1300
Phenol	ug/kg	11 UJ	35 U	-	-	-	85 U
Pyrene	ug/kg	45	1700	-	-	-	220
Metals							
Aluminum	mg/kg	7700	7800	-	-	-	1900 J
Antimony	mg/kg	2.1 J	23 J	-	-	-	1.2 J
Arsenic	mg/kg	70	52	-	-	-	12
Barium	mg/kg	460	1100	-	-	-	67
Beryllium	mg/kg	4.5	0.91	-	-	-	0.31
Cadmium	mg/kg	1.4	30	-	-	-	1.9
Calcium	mg/kg	5600	19000	-	-	-	1200
Chromium	mg/kg	28	370	-	-	-	18
Chromium III (trivalent)	mg/kg	28	370	-	-	-	-
Chromium VI (hexavalent)	mg/kg	1.6 U	0.26 U	-	-	-	-
Cobalt	mg/kg	13	24	-	-	-	3.5
Copper	mg/kg	310	3300	-	-	-	370
Iron	mg/kg	13000	180000	-	-	-	18000
Lead	mg/kg	220 J	3400 J	-	-	-	100
Lead - coarse fraction	mg/kg	-	980	-	-	-	-
Lead - fine fraction	mg/kg	-	1500	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	1100	-	-	-	-
Magnesium	mg/kg	1700	4900	-	-	-	600
Manganese	mg/kg	60	2300	-	-	-	600
Mercury	mg/kg	0.087 J	3.2	-	-	-	0.031 J

Table 10

Summary of Analytical Results
Soil/Fill Samples - EU13
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-60**	**SS-61**	**SS-94**	**SS-168-AS**	**TT-40**	**TT-40**
Sample ID:		**SS-38443-103018-JC-060**	**SS-38443-103018-JC-061**	**SS-38443-103018-JC-094**	**SS-38443-103018-JC-168**	**TT-40**	**S-38443-110317-BW-022**
Sample Date:		**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**11/3/2017**	**11/3/2017**
Sample Depth:		**0.17-2.17 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-0.5 ft BGS**	**2-4 ft BGS**	**6-8 ft BGS**
Parameters	**Units**						
Nickel	mg/kg	29	310	-	-	-	17
Potassium	mg/kg	900	1100	-	-	-	180 U
Selenium	mg/kg	4.0	3.7	-	-	-	1.3
Silver	mg/kg	0.89	12	-	-	-	0.12 J
Sodium	mg/kg	150 J	1500	-	-	-	65 U
Thallium	mg/kg	2.0	1.0	-	-	-	0.22 J
Vanadium	mg/kg	66	130	-	-	-	5.0
Zinc	mg/kg	120 J	3400 J	-	-	-	310
PCBs							
Aroclor-1016 (PCB-1016)	ug/kg	290 U	23 U	-	-	-	27 UJ
Aroclor-1221 (PCB-1221)	ug/kg	320 U	25 U	-	-	-	26 U
Aroclor-1232 (PCB-1232)	ug/kg	300 U	24 U	-	-	-	18 U
Aroclor-1242 (PCB-1242)	ug/kg	250 U	20 U	-	-	-	23 U
Aroclor-1248 (PCB-1248)	ug/kg	320 U	25 U	-	-	-	19 U
Aroclor-1254 (PCB-1254)	ug/kg	11000	100	-	-	-	380
Aroclor-1260 (PCB-1260)	ug/kg	290 U	23 U	-	-	-	20 U
Pesticides							
4,4'-DDD	ug/kg	39 U	16 U	-	-	-	40 U
4,4'-DDE	ug/kg	280	16 U	-	-	-	14 U
4,4'-DDT	ug/kg	760	12 U	-	-	-	17 U
Aldrin	ug/kg	20 U	8.1 U	-	-	-	29 U
alpha-BHC	ug/kg	24 U	9.6 U	-	-	-	19 U
alpha-Chlordane	ug/kg	40 U	16 U	-	-	-	46 U
beta-BHC	ug/kg	46 U	18 U	-	-	-	47 U
delta-BHC	ug/kg	45 U	18 U	-	-	-	16 U
Dieldrin	ug/kg	29 U	12 U	-	-	-	11 U
Endosulfan I	ug/kg	32 U	13 U	-	-	-	16 U
Endosulfan II	ug/kg	39 U	16 U	-	-	-	22 U
Endosulfan sulfate	ug/kg	34 U	14 U	-	-	-	14 U
Endrin	ug/kg	50 U	20 U	-	-	-	17 U
Endrin aldehyde	ug/kg	35 U	14 U	-	-	-	22 U
Endrin ketone	ug/kg	23 U	9.4 U	-	-	-	13 U
gamma-BHC (lindane)	ug/kg	47 U	19 U	-	-	-	35 U
gamma-Chlordane	ug/kg	32 U	13 U	-	-	-	18 U
Heptachlor	ug/kg	42 U	17 U	-	-	-	9.4 U
Heptachlor epoxide	ug/kg	75 NJ	15 U	-	-	-	29 U
Methoxychlor	ug/kg	170 U	69 U	-	-	-	14 U
Toxaphene	ug/kg	660 U	260 U	-	-	-	440 U
Herbicides							
2,4,5-T	ug/kg	-	-	17 U	-	-	-
2,4,5-TP (Silvex)	ug/kg	-	-	18 U	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	-	-	63 U	-	-	-

Table 10

Summary of Analytical Results
Soil/Fill Samples - EU13
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-60**	**SS-61**	**SS-94**	**SS-168-AS**	**TT-40**	**TT-40**
Sample ID:		**SS-38443-103018-JC-060**	**SS-38443-103018-JC-061**	**SS-38443-103018-JC-094**	**SS-38443-103018-JC-168**	**TT-40**	**S-38443-110317-BW-022**
Sample Date:		**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**11/3/2017**	**11/3/2017**
Sample Depth:		**0.17-2.17 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-0.5 ft BGS**	**2-4 ft BGS**	**6-8 ft BGS**
Parameters	**Units**						
Dioxin/Furans							
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	13
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	160
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	12
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	23
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	0.85 J
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	4.2 J
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	0.43 J
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	1.7 J
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	3.0 J
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	0.047 U
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	2.2 J
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	1.1 J
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	0.52 J
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	1.5 J
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	2.5 J
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	3.8
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	0.21 J
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	27 J
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	46 J
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	28 J
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	22 J
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	33 J
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	110 J
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	37 J
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	3.4 J
Asbestos							
Asbestos	%	-	-	-	-	ND	-
Chrysotile asbestos	%	-	-	-	0.25 <	-	-
General Chemistry							
Cyanide (total)	mg/kg	4.1	0.38 J	-	-	-	0.53 J

Notes
< - Less than reported value.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 11

Summary of Analytical Results
Soil/Fill Samples - EU14
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH62-13**	**BH63-13**	**BH64-13**	**BH65-13**	**BH68-13**	**BH68-13**	**BH69-13**
Sample ID:		**S-38443-061913-JT-008**	**S-38443-062013-JC-020**	**S-38443-061913-JC-016**	**S-38443-062013-JC-031**	**S-38443-061913-JC-017**	**S-38443-061913-JC-018**	**S-38443-062113-JC-035**
Sample Date:		**6/19/2013**	**6/20/2013**	**6/19/2013**	**6/20/2013**	**6/19/2013**	**6/19/2013**	**6/21/2013**
Sample Depth:		**21.5-23.5 ft BGS**	**23-25 ft BGS**	**22-24 ft BGS**	**22.1-24.1 ft BGS**	**0.5-2.5 ft BGS**	**21.5-23.5 ft BGS**	**21-23 ft BGS**
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/kg	5.0 U	4.7 U	4.1 U	5.1 U	270 U	4.3 U	4.7 U
1,1,2,2-Tetrachloroethane	ug/kg	5.0 U	4.7 U	4.1 U	5.1 U	270 U	4.3 U	4.7 U
1,1,2-Trichloroethane	ug/kg	5.0 U	4.7 U	4.1 U	5.1 U	270 U	4.3 U	4.7 U
1,1-Dichloroethane	ug/kg	5.0 U	4.7 U	4.1 U	1.1 J	270 U	4.3 U	4.7 U
1,1-Dichloroethene	ug/kg	5.0 U	4.7 U	4.1 U	5.1 U	270 U	4.3 U	4.7 U
1,2,4-Trichlorobenzene	ug/kg	5.0 U	4.7 U	4.1 U	5.1 U	270 U	4.3 U	4.7 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	10 U	9.5 U	8.1 U	10 U	540 U	8.6 U	9.4 U
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	5.0 U	4.7 U	4.1 U	5.1 U	270 U	4.3 U	4.7 U
1,2-Dichlorobenzene	ug/kg	5.0 U	4.7 U	4.1 U	5.1 U	270 U	1.1 J	4.7 U
1,2-Dichloroethane	ug/kg	5.0 U	4.7 U	4.1 U	5.1 U	270 U	4.3 U	4.7 U
1,2-Dichloropropane	ug/kg	5.0 U	4.7 U	4.1 U	5.1 U	270 U	4.3 U	4.7 U
1,3-Dichlorobenzene	ug/kg	5.0 U	4.7 U	4.1 U	5.1 U	270 U	4.3 U	4.7 U
1,4-Dichlorobenzene	ug/kg	5.0 U	4.7 U	4.1 U	5.1 U	270 U	1.7 J	4.7 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	1.9 J	5.1 J	16 U	20 U	1100 U	17 U	19 U
2-Hexanone	ug/kg	20 U	19 U	16 U	20 U	1100 U	17 U	19 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	20 U	19 U	16 U	20 U	1100 U	1.5 J	19 U
Acetone	ug/kg	21 U	33 U	16 U	20 U	1100 U	21 U	19 U
Benzene	ug/kg	5.0 U	0.22 J	4.1 U	0.38 J	270 U	4.3 U	4.7 U
Bromodichloromethane	ug/kg	5.0 U	4.7 U	4.1 U	5.1 U	270 U	4.3 U	4.7 U
Bromoform	ug/kg	5.0 U	4.7 U	4.1 U	5.1 U	270 U	4.3 U	4.7 U
Bromomethane (Methyl bromide)	ug/kg	5.0 U	4.7 UJ	4.1 U	5.1 UJ	270 U	4.3 UJ	4.7 U
Carbon disulfide	ug/kg	5.0 U	4.7 U	4.1 U	5.1 U	270 U	4.3 U	4.7 U
Carbon tetrachloride	ug/kg	5.0 U	4.7 U	4.1 U	5.1 U	270 U	4.3 U	4.7 U
Chlorobenzene	ug/kg	0.39 J	2.0 J	4.1 U	5.1 U	270 U	0.87 J	4.7 U
Chloroethane	ug/kg	5.0 U	4.7 UJ	4.1 U	5.1 UJ	270 U	4.3 UJ	4.7 U
Chloroform (Trichloromethane)	ug/kg	5.0 U	4.7 U	4.1 U	5.1 U	270 U	4.3 U	4.7 U
Chloromethane (Methyl chloride)	ug/kg	5.0 U	4.7 U	4.1 U	5.1 U	270 U	4.3 U	4.7 U
cis-1,2-Dichloroethene	ug/kg	0.64 J	4.7 U	4.1 U	5.1 U	270 U	4.3 U	6.7
cis-1,3-Dichloropropene	ug/kg	5.0 U	4.7 U	4.1 U	5.1 U	270 U	4.3 U	4.7 U
Cyclohexane	ug/kg	10 U	9.5 U	8.1 U	0.38 J	540 U	8.6 U	9.4 U
Dibromochloromethane	ug/kg	5.0 U	4.7 U	4.1 U	5.1 U	270 U	4.3 U	4.7 U
Dichlorodifluoromethane (CFC-12)	ug/kg	5.0 U	4.7 U	4.1 U	5.1 U	270 U	4.3 U	4.7 U
Ethylbenzene	ug/kg	0.35 J	4.7 U	4.1 U	0.47 J	270 U	4.3 U	4.7 U
Isopropyl benzene	ug/kg	5.0 U	4.7 U	4.1 U	5.1 U	270 U	4.3 U	4.7 U
Methyl acetate	ug/kg	10 U	9.5 U	8.1 U	10 U	150 J	8.6 U	9.4 U
Methyl cyclohexane	ug/kg	10 U	0.33 J	8.1 U	0.67 J	37 J	8.6 U	9.4 U
Methyl tert butyl ether (MTBE)	ug/kg	5.0 U	4.7 U	4.1 U	5.1 U	270 U	4.3 U	4.7 U
Methylene chloride	ug/kg	8.1 U	4.4 J	5.9 U	5.0 J	270 U	11 J	4.9 UJ
Styrene	ug/kg	5.0 U	4.7 U	4.1 U	5.1 U	270 U	4.3 U	4.7 U
Tetrachloroethene	ug/kg	5.0 U	4.7 U	4.1 U	5.1 U	270 U	4.3 U	3.9 J
Toluene	ug/kg	0.94 J	0.56 J	0.40 J	1.3 J	24 J	0.39 J	0.46 J
trans-1,2-Dichloroethene	ug/kg	5.0 U	4.7 U	4.1 U	5.1 U	270 U	4.3 U	4.7 U
trans-1,3-Dichloropropene	ug/kg	5.0 U	4.7 U	4.1 U	5.1 U	270 U	4.3 U	4.7 U
Trichloroethene	ug/kg	5.0 U	4.7 U	1.4 J	5.1 U	180 J	4.3 U	25
Trichlorofluoromethane (CFC-11)	ug/kg	5.0 U	4.7 U	4.1 U	5.1 U	270 U	4.3 U	4.7 U

Table 11

Summary of Analytical Results
Soil/Fill Samples - EU14
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH62-13**	**BH63-13**	**BH64-13**	**BH65-13**	**BH68-13**	**BH68-13**	**BH69-13**
Sample ID:		**S-38443-061913-JT-008**	**S-38443-062013-JC-020**	**S-38443-061913-JC-016**	**S-38443-062013-JC-031**	**S-38443-061913-JC-017**	**S-38443-061913-JC-018**	**S-38443-062113-JC-035**
Sample Date:		**6/19/2013**	**6/20/2013**	**6/19/2013**	**6/20/2013**	**6/19/2013**	**6/19/2013**	**6/21/2013**
Sample Depth:		**21.5-23.5 ft BGS**	**23-25 ft BGS**	**22-24 ft BGS**	**22.1-24.1 ft BGS**	**0.5-2.5 ft BGS**	**21.5-23.5 ft BGS**	**21-23 ft BGS**
Parameters	**Units**							
Trifluorotrichloroethane (CFC-113)	ug/kg	5.0 U	4.7 U	4.1 U	5.1 U	270 U	4.3 U	4.7 U
Vinyl chloride	ug/kg	5.0 U	4.7 U	4.1 U	5.1 U	270 U	4.3 U	4.7 U
Xylenes (total)	ug/kg	10 U	9.5 U	8.1 U	10 U	110 J	8.6 U	9.4 U
Semi-Volatiles								
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	ug/kg	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	ug/kg	-	-	-	-	-	-	-
2,4-Dichlorophenol	ug/kg	-	-	-	-	-	-	-
2,4-Dimethylphenol	ug/kg	-	-	-	-	-	-	-
2,4-Dinitrophenol	ug/kg	-	-	-	-	-	-	-
2,4-Dinitrotoluene	ug/kg	-	-	-	-	-	-	-
2,6-Dinitrotoluene	ug/kg	-	-	-	-	-	-	-
2-Chloronaphthalene	ug/kg	-	-	-	-	-	-	-
2-Chlorophenol	ug/kg	-	-	-	-	-	-	-
2-Methylnaphthalene	ug/kg	-	-	-	-	-	-	-
2-Methylphenol	ug/kg	-	-	-	-	-	-	-
2-Nitroaniline	ug/kg	-	-	-	-	-	-	-
2-Nitrophenol	ug/kg	-	-	-	-	-	-	-
3&4-Methylphenol	ug/kg	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/kg	-	-	-	-	-	-	-
3-Nitroaniline	ug/kg	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	ug/kg	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	ug/kg	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	ug/kg	-	-	-	-	-	-	-
4-Chloroaniline	ug/kg	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	ug/kg	-	-	-	-	-	-	-
4-Methylphenol	ug/kg	-	-	-	-	-	-	-
4-Nitroaniline	ug/kg	-	-	-	-	-	-	-
4-Nitrophenol	ug/kg	-	-	-	-	-	-	-
Acenaphthene	ug/kg	-	-	-	-	-	-	-
Acenaphthylene	ug/kg	-	-	-	-	-	-	-
Acetophenone	ug/kg	-	-	-	-	-	-	-
Anthracene	ug/kg	-	-	-	-	-	-	-
Atrazine	ug/kg	-	-	-	-	-	-	-
Benzaldehyde	ug/kg	-	-	-	-	-	-	-
Benzo(a)anthracene	ug/kg	-	-	-	-	-	-	-
Benzo(a)pyrene	ug/kg	-	-	-	-	-	-	-
Benzo(b)fluoranthene	ug/kg	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	ug/kg	-	-	-	-	-	-	-
Benzo(k)fluoranthene	ug/kg	-	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	ug/kg	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	ug/kg	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	ug/kg	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	ug/kg	-	-	-	-	-	-	-

Table 11

Summary of Analytical Results
Soil/Fill Samples - EU14
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH62-13**	**BH63-13**	**BH64-13**	**BH65-13**	**BH68-13**	**BH68-13**	**BH69-13**
Sample ID:		**S-38443-061913-JT-008**	**S-38443-062013-JC-020**	**S-38443-061913-JC-016**	**S-38443-062013-JC-031**	**S-38443-061913-JC-017**	**S-38443-061913-JC-018**	**S-38443-062113-JC-035**
Sample Date:		**6/19/2013**	**6/20/2013**	**6/19/2013**	**6/20/2013**	**6/19/2013**	**6/19/2013**	**6/21/2013**
Sample Depth:		**21.5-23.5 ft BGS**	**23-25 ft BGS**	**22-24 ft BGS**	**22.1-24.1 ft BGS**	**0.5-2.5 ft BGS**	**21.5-23.5 ft BGS**	**21-23 ft BGS**
Parameters	**Units**							
Caprolactam	ug/kg	-	-	-	-	-	-	-
Carbazole	ug/kg	-	-	-	-	-	-	-
Chrysene	ug/kg	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	ug/kg	-	-	-	-	-	-	-
Dibenzofuran	ug/kg	-	-	-	-	-	-	-
Diethyl phthalate	ug/kg	-	-	-	-	-	-	-
Dimethyl phthalate	ug/kg	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	ug/kg	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	ug/kg	-	-	-	-	-	-	-
Fluoranthene	ug/kg	-	-	-	-	-	-	-
Fluorene	ug/kg	-	-	-	-	-	-	-
Hexachlorobenzene	ug/kg	-	-	-	-	-	-	-
Hexachlorobutadiene	ug/kg	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	ug/kg	-	-	-	-	-	-	-
Hexachloroethane	ug/kg	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/kg	-	-	-	-	-	-	-
Isophorone	ug/kg	-	-	-	-	-	-	-
Naphthalene	ug/kg	-	-	-	-	-	-	-
Nitrobenzene	ug/kg	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	ug/kg	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	ug/kg	-	-	-	-	-	-	-
Pentachlorophenol	ug/kg	-	-	-	-	-	-	-
Phenanthrene	ug/kg	-	-	-	-	-	-	-
Phenol	ug/kg	-	-	-	-	-	-	-
Pyrene	ug/kg	-	-	-	-	-	-	-
Metals								
Aluminum	mg/kg	-	-	-	-	-	-	-
Antimony	mg/kg	-	-	-	-	-	-	-
Arsenic	mg/kg	-	-	-	-	-	-	-
Barium	mg/kg	-	-	-	-	-	-	-
Beryllium	mg/kg	-	-	-	-	-	-	-
Cadmium	mg/kg	-	-	-	-	-	-	-
Calcium	mg/kg	-	-	-	-	-	-	-
Chromium	mg/kg	-	-	-	-	-	-	-
Chromium III (trivalent)	mg/kg	-	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-	-
Cobalt	mg/kg	-	-	-	-	-	-	-
Copper	mg/kg	-	-	-	-	-	-	-
Iron	mg/kg	-	-	-	-	-	-	-
Lead	mg/kg	-	-	-	-	-	-	-
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-
Magnesium	mg/kg	-	-	-	-	-	-	-
Manganese	mg/kg	-	-	-	-	-	-	-

Table 11

Summary of Analytical Results
Soil/Fill Samples - EU14
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH62-13**	**BH63-13**	**BH64-13**	**BH65-13**	**BH68-13**	**BH68-13**	**BH69-13**
Sample ID:		**S-38443-061913-JT-008**	**S-38443-062013-JC-020**	**S-38443-061913-JC-016**	**S-38443-062013-JC-031**	**S-38443-061913-JC-017**	**S-38443-061913-JC-018**	**S-38443-062113-JC-035**
Sample Date:		**6/19/2013**	**6/20/2013**	**6/19/2013**	**6/20/2013**	**6/19/2013**	**6/19/2013**	**6/21/2013**
Sample Depth:		**21.5-23.5 ft BGS**	**23-25 ft BGS**	**22-24 ft BGS**	**22.1-24.1 ft BGS**	**0.5-2.5 ft BGS**	**21.5-23.5 ft BGS**	**21-23 ft BGS**
Parameters	**Units**							
Mercury	mg/kg	-	-	-	-	-	-	-
Nickel	mg/kg	-	-	-	-	-	-	-
Potassium	mg/kg	-	-	-	-	-	-	-
Selenium	mg/kg	-	-	-	-	-	-	-
Silver	mg/kg	-	-	-	-	-	-	-
Sodium	mg/kg	-	-	-	-	-	-	-
Thallium	mg/kg	-	-	-	-	-	-	-
Vanadium	mg/kg	-	-	-	-	-	-	-
Zinc	mg/kg	-	-	-	-	-	-	-
PCBs								
Aroclor-1016 (PCB-1016)	ug/kg	35 U	-	-	35 U	-	-	35 U
Aroclor-1221 (PCB-1221)	ug/kg	35 U	-	-	35 U	-	-	35 U
Aroclor-1232 (PCB-1232)	ug/kg	35 U	-	-	35 U	-	-	35 U
Aroclor-1242 (PCB-1242)	ug/kg	35 U	-	-	35 U	-	-	35 U
Aroclor-1248 (PCB-1248)	ug/kg	35 U	-	-	35 U	-	-	35 U
Aroclor-1254 (PCB-1254)	ug/kg	35 U	-	-	35 U	-	-	35 U
Aroclor-1260 (PCB-1260)	ug/kg	35 U	-	-	35 U	-	-	35 U
Pesticides								
4,4'-DDD	ug/kg	-	-	-	-	-	-	-
4,4'-DDE	ug/kg	-	-	-	-	-	-	-
4,4'-DDT	ug/kg	-	-	-	-	-	-	-
Aldrin	ug/kg	-	-	-	-	-	-	-
alpha-BHC	ug/kg	-	-	-	-	-	-	-
alpha-Chlordane	ug/kg	-	-	-	-	-	-	-
beta-BHC	ug/kg	-	-	-	-	-	-	-
delta-BHC	ug/kg	-	-	-	-	-	-	-
Dieldrin	ug/kg	-	-	-	-	-	-	-
Endosulfan I	ug/kg	-	-	-	-	-	-	-
Endosulfan II	ug/kg	-	-	-	-	-	-	-
Endosulfan sulfate	ug/kg	-	-	-	-	-	-	-
Endrin	ug/kg	-	-	-	-	-	-	-
Endrin aldehyde	ug/kg	-	-	-	-	-	-	-
Endrin ketone	ug/kg	-	-	-	-	-	-	-
gamma-BHC (lindane)	ug/kg	-	-	-	-	-	-	-
gamma-Chlordane	ug/kg	-	-	-	-	-	-	-
Heptachlor	ug/kg	-	-	-	-	-	-	-
Heptachlor epoxide	ug/kg	-	-	-	-	-	-	-
Methoxychlor	ug/kg	-	-	-	-	-	-	-
Toxaphene	ug/kg	-	-	-	-	-	-	-
Herbicides								
2,4,5-T	ug/kg	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/kg	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	-	-	-	-	-	-	-

Table 11

Summary of Analytical Results
Soil/Fill Samples - EU14
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH62-13**	**BH63-13**	**BH64-13**	**BH65-13**	**BH68-13**	**BH68-13**	**BH69-13**
Sample ID:		**S-38443-061913-JT-008**	**S-38443-062013-JC-020**	**S-38443-061913-JC-016**	**S-38443-062013-JC-031**	**S-38443-061913-JC-017**	**S-38443-061913-JC-018**	**S-38443-062113-JC-035**
Sample Date:		**6/19/2013**	**6/20/2013**	**6/19/2013**	**6/20/2013**	**6/19/2013**	**6/19/2013**	**6/21/2013**
Sample Depth:		**21.5-23.5 ft BGS**	**23-25 ft BGS**	**22-24 ft BGS**	**22.1-24.1 ft BGS**	**0.5-2.5 ft BGS**	**21.5-23.5 ft BGS**	**21-23 ft BGS**
Parameters	**Units**							
Dioxin/Furans								
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Asbestos								
Asbestos	%	-	-	-	-	-	-	-
Geotechnical								
Coarse sand	%	-	-	-	-	-	-	-
Fine sand	%	-	-	-	-	-	-	-
Fines	%	-	-	-	-	-	-	-
Gravel	%	-	-	-	-	-	-	-
Medium sand	%	-	-	-	-	-	-	-
Sand	%	-	-	-	-	-	-	-
Sieve, #4	% passed	-	-	-	-	-	-	-
Sieve, #10	% passed	-	-	-	-	-	-	-
Sieve, #20	% passed	-	-	-	-	-	-	-
Sieve, #40	% passed	-	-	-	-	-	-	-
Sieve, #60	% passed	-	-	-	-	-	-	-
Sieve, #80	% passed	-	-	-	-	-	-	-
Sieve, #100	% passed	-	-	-	-	-	-	-
Sieve, #200	% passed	-	-	-	-	-	-	-

Table 11

Summary of Analytical Results
Soil/Fill Samples - EU14
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH62-13**	**BH63-13**	**BH64-13**	**BH65-13**	**BH68-13**	**BH68-13**	**BH69-13**
Sample ID:		**S-38443-061913-JT-008**	**S-38443-062013-JC-020**	**S-38443-061913-JC-016**	**S-38443-062013-JC-031**	**S-38443-061913-JC-017**	**S-38443-061913-JC-018**	**S-38443-062113-JC-035**
Sample Date:		**6/19/2013**	**6/20/2013**	**6/19/2013**	**6/20/2013**	**6/19/2013**	**6/19/2013**	**6/21/2013**
Sample Depth:		**21.5-23.5 ft BGS**	**23-25 ft BGS**	**22-24 ft BGS**	**22.1-24.1 ft BGS**	**0.5-2.5 ft BGS**	**21.5-23.5 ft BGS**	**21-23 ft BGS**
Parameters	**Units**							
Sieve, 0.375 inch	% passed	-	-	-	-	-	-	-
Sieve, 0.75 inch	% passed	-	-	-	-	-	-	-
Sieve, 1 inch	% passed	-	-	-	-	-	-	-
Sieve, 1.5 inch	% passed	-	-	-	-	-	-	-
Sieve, 2 inch	% passed	-	-	-	-	-	-	-
Sieve, 3 inch	% passed	-	-	-	-	-	-	-
General Chemistry								
Cyanide (total)	mg/kg	-	-	-	-	-	-	-
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-

Notes
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 11

Summary of Analytical Results
Soil/Fill Samples - EU14
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH69-13**	**BH70-13**	**BH105-18**	**BH106-18**	**GP30-18**	**GP31-18**	**SS-46**
Sample ID:		**S-38443-062113-JC-036**	**S-38443-062113-JC-034**	**S-38443-011718-JC-047**	**S-38443-011718-JC-048**	**S-38443-011718-JC-049**	**S-38443-011918-JC-056**	**SS-38443-103018-JC-046**
Sample Date:		**6/21/2013**	**6/21/2013**	**1/17/2018**	**1/17/2018**	**1/17/2018**	**1/19/2018**	**10/30/2018**
Sample Depth:		**21-23 ft BGS**	**19-20 ft BGS**	**8.5-10.5 ft BGS**	**13-15 ft BGS**	**10.5-11.5 ft bgs**	**8-9 ft bgs**	**0-2 ft BGS**
		Duplicate						
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/kg	4.4 U	5.3 U	0.30 U	27 U	0.20 U	0.22 UJ	1.1 U
1,1,2,2-Tetrachloroethane	ug/kg	4.4 U	5.3 U	0.34 U	23 U	0.23 U	0.25 U	R
1,1,2-Trichloroethane	ug/kg	4.4 U	5.3 U	0.52 U	23 U	0.35 U	0.37 U	1.5 U
1,1-Dichloroethane	ug/kg	4.4 U	5.3 U	0.44 U	30 U	0.29 U	0.32 U	0.91 U
1,1-Dichloroethene	ug/kg	4.4 U	5.3 U	0.72 U	35 U	0.48 U	0.52 U	1.2 U
1,2,4-Trichlorobenzene	ug/kg	4.4 U	5.3 U	0.32 U	25 U	0.21 U	0.23 U	R
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	8.8 U	11 U	0.90 U	47 U	0.60 U	0.65 U	R
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	4.4 U	5.3 U	0.46 U	23 U	0.31 U	0.34 U	1.0 U
1,2-Dichlorobenzene	ug/kg	4.4 U	5.3 U	0.29 U	18 U	0.20 U	0.21 U	R
1,2-Dichloroethane	ug/kg	4.4 U	5.3 U	0.38 U	29 U	0.26 U	0.28 U	1.0 U
1,2-Dichloropropane	ug/kg	4.4 U	5.3 U	0.41 U	29 U	0.27 U	0.30 U	1.1 U
1,3-Dichlorobenzene	ug/kg	4.4 U	5.3 U	0.38 U	37 U	0.26 U	0.28 U	R
1,4-Dichlorobenzene	ug/kg	4.4 U	5.3 U	0.46 U	26 U	0.31 U	0.34 U	R
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	18 U	21 U	1.7 U	49 U	1.1 U	1.2 U	4.7 U
2-Hexanone	ug/kg	18 U	21 U	0.77 U	84 U	0.51 U	0.56 U	5.4 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	18 U	21 U	1.2 U	39 U	0.79 U	0.85 U	4.9 U
Acetone	ug/kg	18 U	21 U	4.1 U	95 U	2.7 U	8.3 U	28 U
Benzene	ug/kg	4.4 U	5.3 U	0.42 U	23 U	0.43 J	0.31 U	0.92 U
Bromodichloromethane	ug/kg	4.4 U	5.3 U	0.44 U	18 U	0.29 U	0.32 U	0.89 U
Bromoform	ug/kg	4.4 U	5.3 U	0.53 U	23 U	0.35 U	0.38 U	3.2 U
Bromomethane (Methyl bromide)	ug/kg	4.4 U	5.3 U	0.78 U	27 U	0.52 U	0.57 U	1.3 U
Carbon disulfide	ug/kg	4.4 U	5.3 U	0.28 U	18 U	0.19 U	0.20 U	1.5 U
Carbon tetrachloride	ug/kg	4.4 U	5.3 U	0.33 U	26 U	0.22 U	0.24 U	4.3 U
Chlorobenzene	ug/kg	4.4 U	5.3 U	0.44 U	29 U	0.29 U	0.32 U	1.2 U
Chloroethane	ug/kg	4.4 U	5.3 U	0.50 U	27 U	0.34 U	0.36 U	1.6 U
Chloroform (Trichloromethane)	ug/kg	4.4 U	5.3 U	0.30 U	23 U	0.20 U	0.22 U	1.0 U
Chloromethane (Methyl chloride)	ug/kg	4.4 U	5.3 U	0.50 U	18 U	0.34 U	0.36 U	1.4 U
cis-1,2-Dichloroethene	ug/kg	2.2 J	0.39 J	0.95 J	34 U	0.25 U	0.27 U	1.4 U
cis-1,3-Dichloropropene	ug/kg	4.4 U	5.3 U	0.34 U	23 U	0.23 U	0.25 U	1.9 U
Cyclohexane	ug/kg	8.8 U	11 U	0.28 U	29 U	0.19 U	0.20 U	1.8 U
Dibromochloromethane	ug/kg	4.4 U	5.3 U	0.40 U	33 U	0.27 U	0.29 U	3.7 U
Dichlorodifluoromethane (CFC-12)	ug/kg	4.4 U	5.3 U	0.46 U	22 U	0.31 U	0.34 U	1.2 U
Ethylbenzene	ug/kg	4.4 U	5.3 U	0.36 U	34 U	0.52 J	0.35 J	1.4 U
Isopropyl benzene	ug/kg	4.4 U	5.3 U	0.26 U	33 U	0.18 U	0.19 U	1.1 U
Methyl acetate	ug/kg	8.8 U	11 U	1.5 U	73 U	1.0 U	1.1 U	4.5 U
Methyl cyclohexane	ug/kg	8.8 U	11 U	0.30 U	36 U	0.20 U	0.29 J	1.6 U
Methyl tert butyl ether (MTBE)	ug/kg	4.4 U	5.3 U	0.36 U	25 U	0.24 U	0.26 U	1.1 U
Methylene chloride	ug/kg	7.6 UJ	5.3 UJ	0.86 U	64 U	0.57 U	5.0 U	16 U
Styrene	ug/kg	4.4 U	5.3 U	0.36 U	9.8 U	0.24 U	0.26 U	1.5 U
Tetrachloroethene	ug/kg	1.2 J	1.2 J	0.49 U	21 U	0.34 J	0.35 U	0.96 U
Toluene	ug/kg	4.4 U	0.53 J	0.45 U	23 U	1.5 J	0.77 J	1.0 U
trans-1,2-Dichloroethene	ug/kg	4.4 U	5.3 U	0.50 U	34 U	0.34 U	0.36 U	0.61 U
trans-1,3-Dichloropropene	ug/kg	4.4 U	5.3 U	0.28 U	15 U	0.19 U	0.20 U	1.4 U
Trichloroethene	ug/kg	9.0	110	6.3 J	36 U	2.7 J	5.6	3.4 J
Trichlorofluoromethane (CFC-11)	ug/kg	4.4 U	5.3 U	0.32 U	33 U	0.21 U	0.23 U	1.4 U

Table 11

Summary of Analytical Results
Soil/Fill Samples - EU14
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH69-13**	**BH70-13**	**BH105-18**	**BH106-18**	**GP30-18**	**GP31-18**	**SS-46**
Sample ID:		**S-38443-062113-JC-036**	**S-38443-062113-JC-034**	**S-38443-011718-JC-047**	**S-38443-011718-JC-048**	**S-38443-011718-JC-049**	**S-38443-011918-JC-056**	**SS-38443-103018-JC-046**
Sample Date:		**6/21/2013**	**6/21/2013**	**1/17/2018**	**1/17/2018**	**1/17/2018**	**1/19/2018**	**10/30/2018**
Sample Depth:		**21-23 ft BGS**	**19-20 ft BGS**	**8.5-10.5 ft BGS**	**13-15 ft BGS**	**10.5-11.5 ft bgs**	**8-9 ft bgs**	**0-2 ft BGS**
		Duplicate						
Parameters	**Units**							
Trifluorotrichloroethane (CFC-113)	ug/kg	4.4 U	5.3 U	0.65 U	23 U	0.43 U	0.47 U	1.7 U
Vinyl chloride	ug/kg	4.4 U	5.3 U	0.37 U	17 U	0.25 U	0.27 U	1.1 U
Xylenes (total)	ug/kg	8.8 U	11 U	0.53 U	27 U	0.71 J	0.79 J	2.1 U
Semi-Volatiles								
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	-	-	15 U	100 U	-	-	67 U
2,4,5-Trichlorophenol	ug/kg	-	-	40 U	270 U	-	-	470 U
2,4,6-Trichlorophenol	ug/kg	-	-	14 U	97 U	-	-	430 U
2,4-Dichlorophenol	ug/kg	-	-	32 U	220 U	-	-	300 U
2,4-Dimethylphenol	ug/kg	-	-	32 U	220 U	-	-	270 U
2,4-Dinitrophenol	ug/kg	-	-	33 U	230 U	-	-	960 U
2,4-Dinitrotoluene	ug/kg	-	-	27 U	190 U	-	-	420 U
2,6-Dinitrotoluene	ug/kg	-	-	33 U	230 U	-	-	380 U
2-Chloronaphthalene	ug/kg	-	-	0.71 U	4.9 U	-	-	94 U
2-Chlorophenol	ug/kg	-	-	13 U	89 U	-	-	67 U
2-Methylnaphthalene	ug/kg	-	-	93	5.4 U	-	-	69 J
2-Methylphenol	ug/kg	-	-	17 U	120 U	-	-	210 U
2-Nitroaniline	ug/kg	-	-	14 U	99 U	-	-	270 U
2-Nitrophenol	ug/kg	-	-	13 U	90 U	-	-	88 U
3&4-Methylphenol	ug/kg	-	-	32 U	220 U	-	-	200 U
3,3'-Dichlorobenzidine	ug/kg	-	-	29 U	200 U	-	-	290 U
3-Nitroaniline	ug/kg	-	-	25 U	170 U	-	-	330 U
4,6-Dinitro-2-methylphenol	ug/kg	-	-	15 U	100 U	-	-	540 U
4-Bromophenyl phenyl ether	ug/kg	-	-	21 U	140 U	-	-	94 U
4-Chloro-3-methylphenol	ug/kg	-	-	33 U	230 U	-	-	300 U
4-Chloroaniline	ug/kg	-	-	27 U	190 U	-	-	200 U
4-Chlorophenyl phenyl ether	ug/kg	-	-	21 U	140 U	-	-	94 U
4-Methylphenol	ug/kg	-	-	-	-	-	-	-
4-Nitroaniline	ug/kg	-	-	41 U	280 U	-	-	400 U
4-Nitrophenol	ug/kg	-	-	27 U	190 U	-	-	630 U
Acenaphthene	ug/kg	-	-	14	8.3 U	-	-	19 U
Acenaphthylene	ug/kg	-	-	17	3.8 U	-	-	27 U
Acetophenone	ug/kg	-	-	15 U	100 U	-	-	74 U
Anthracene	ug/kg	-	-	43	8.5 U	-	-	16 U
Atrazine	ug/kg	-	-	14 U	99 U	-	-	240 U
Benzaldehyde	ug/kg	-	-	19 U	130 U	-	-	160 U
Benzo(a)anthracene	ug/kg	-	-	150	6.9 U	-	-	110
Benzo(a)pyrene	ug/kg	-	-	180	7.0 U	-	-	140
Benzo(b)fluoranthene	ug/kg	-	-	250	6.4 U	-	-	360
Benzo(g,h,i)perylene	ug/kg	-	-	190	3.8 U	-	-	130
Benzo(k)fluoranthene	ug/kg	-	-	88	7.4 U	-	-	47 U
Biphenyl (1,1-Biphenyl)	ug/kg	-	-	14 J	38 U	-	-	110 U
bis(2-Chloroethoxy)methane	ug/kg	-	-	35 U	240 U	-	-	81 U
bis(2-Chloroethyl)ether	ug/kg	-	-	3.2 U	22 U	-	-	81 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	-	-	170	210 U	-	-	340 U
Butyl benzylphthalate (BBP)	ug/kg	-	-	16 U	110 U	-	-	150 U

Table 11

Summary of Analytical Results
Soil/Fill Samples - EU14
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH69-13**	**BH70-13**	**BH105-18**	**BH106-18**	**GP30-18**	**GP31-18**	**SS-46**
Sample ID:		**S-38443-062113-JC-036**	**S-38443-062113-JC-034**	**S-38443-011718-JC-047**	**S-38443-011718-JC-048**	**S-38443-011718-JC-049**	**S-38443-011918-JC-056**	**SS-38443-103018-JC-046**
Sample Date:		**6/21/2013**	**6/21/2013**	**1/17/2018**	**1/17/2018**	**1/17/2018**	**1/19/2018**	**10/30/2018**
Sample Depth:		**21-23 ft BGS**	**19-20 ft BGS**	**8.5-10.5 ft BGS**	**13-15 ft BGS**	**10.5-11.5 ft bgs**	**8-9 ft bgs**	**0-2 ft BGS**
		Duplicate						
Parameters	**Units**							
Caprolactam	ug/kg	-	-	59 U	400 U	-	-	510 U
Carbazole	ug/kg	-	-	43 U	290 U	-	-	130 U
Chrysene	ug/kg	-	-	160	12 U	-	-	200
Dibenz(a,h)anthracene	ug/kg	-	-	37	7.2 U	-	-	47 U
Dibenzofuran	ug/kg	-	-	32 J	7.2 U	-	-	88 U
Diethyl phthalate	ug/kg	-	-	25 U	170 U	-	-	210 U
Dimethyl phthalate	ug/kg	-	-	27 U	190 U	-	-	94 U
Di-n-butylphthalate (DBP)	ug/kg	-	-	24 U	160 U	-	-	150 U
Di-n-octyl phthalate (DnOP)	ug/kg	-	-	13 U	86 U	-	-	190 U
Fluoranthene	ug/kg	-	-	220	6.0 U	-	-	140
Fluorene	ug/kg	-	-	17	5.8 U	-	-	18 U
Hexachlorobenzene	ug/kg	-	-	3.3 U	23 U	-	-	19 U
Hexachlorobutadiene	ug/kg	-	-	8.9 U	61 U	-	-	81 U
Hexachlorocyclopentadiene	ug/kg	-	-	13 U	88 U	-	-	420 U
Hexachloroethane	ug/kg	-	-	14 U	98 U	-	-	61 U
Indeno(1,2,3-cd)pyrene	ug/kg	-	-	140	3.8 U	-	-	120
Isophorone	ug/kg	-	-	21 U	140 U	-	-	81 U
Naphthalene	ug/kg	-	-	61	8.9 U	-	-	16 U
Nitrobenzene	ug/kg	-	-	3.5 U	24 U	-	-	88 U
N-Nitrosodi-n-propylamine	ug/kg	-	-	10 U	69 U	-	-	74 U
N-Nitrosodiphenylamine	ug/kg	-	-	33 U	230 U	-	-	81 U
Pentachlorophenol	ug/kg	-	-	14 U	99 U	-	-	390 U
Phenanthrene	ug/kg	-	-	170	45 J	-	-	130
Phenol	ug/kg	-	-	12 U	80 U	-	-	87 J
Pyrene	ug/kg	-	-	210	4.8 U	-	-	130
Metals								
Aluminum	mg/kg	-	-	8800	2200	-	-	4300
Antimony	mg/kg	-	-	1.8 J	1.3 J	-	-	2.8 J
Arsenic	mg/kg	-	-	25	1.5	-	-	25
Barium	mg/kg	-	-	260	17	-	-	200
Beryllium	mg/kg	-	-	3.3	0.19	-	-	0.99
Cadmium	mg/kg	-	-	13	0.15 J	-	-	3.7
Calcium	mg/kg	-	-	59000	140000	-	-	24000
Chromium	mg/kg	-	-	84	6.1	-	-	64
Chromium III (trivalent)	mg/kg	-	-	84	5.1	-	-	64
Chromium VI (hexavalent)	mg/kg	-	-	1.9 U	0.97	-	-	0.33 U
Cobalt	mg/kg	-	-	10	2.7	-	-	7.2
Copper	mg/kg	-	-	120	7.2	-	-	460
Iron	mg/kg	-	-	21000	6400	-	-	50000
Lead	mg/kg	-	-	110	11	-	-	340 J
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-
Magnesium	mg/kg	-	-	22000	63000	-	-	7600
Manganese	mg/kg	-	-	300	320	-	-	310

Table 11

Summary of Analytical Results
Soil/Fill Samples - EU14
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH69-13**	**BH70-13**	**BH105-18**	**BH106-18**	**GP30-18**	**GP31-18**	**SS-46**
Sample ID:		**S-38443-062113-JC-036**	**S-38443-062113-JC-034**	**S-38443-011718-JC-047**	**S-38443-011718-JC-048**	**S-38443-011718-JC-049**	**S-38443-011918-JC-056**	**SS-38443-103018-JC-046**
Sample Date:		**6/21/2013**	**6/21/2013**	**1/17/2018**	**1/17/2018**	**1/17/2018**	**1/19/2018**	**10/30/2018**
Sample Depth:		**21-23 ft BGS**	**19-20 ft BGS**	**8.5-10.5 ft BGS**	**13-15 ft BGS**	**10.5-11.5 ft bgs**	**8-9 ft bgs**	**0-2 ft BGS**
		Duplicate						
Parameters	**Units**							
Mercury	mg/kg	-	-	0.35 J	0.022 U	-	-	0.19
Nickel	mg/kg	-	-	38	7.4	-	-	34
Potassium	mg/kg	-	-	1100	350	-	-	360
Selenium	mg/kg	-	-	5.6	0.32 J	-	-	0.87 J
Silver	mg/kg	-	-	0.30 J	0.020 U	-	-	0.57
Sodium	mg/kg	-	-	320	160 U	-	-	220 J
Thallium	mg/kg	-	-	0.80	0.11 J	-	-	0.22 J
Vanadium	mg/kg	-	-	41	8.4	-	-	19
Zinc	mg/kg	-	-	1200	29	-	-	270 J
PCBs								
Aroclor-1016 (PCB-1016)	ug/kg	36 U	-	35 U	24 U	-	-	29 U
Aroclor-1221 (PCB-1221)	ug/kg	36 U	-	38 U	26 U	-	-	32 U
Aroclor-1232 (PCB-1232)	ug/kg	36 U	-	37 U	25 U	-	-	30 U
Aroclor-1242 (PCB-1242)	ug/kg	36 U	-	30 U	20 U	-	-	25 U
Aroclor-1248 (PCB-1248)	ug/kg	36 U	-	38 U	26 U	-	-	32 U
Aroclor-1254 (PCB-1254)	ug/kg	36 U	-	37 U	25 U	-	-	54 J
Aroclor-1260 (PCB-1260)	ug/kg	36 U	-	35 U	24 U	-	-	29 U
Pesticides								
4,4'-DDD	ug/kg	-	-	5.3 U	3.6 U	-	-	2.0 U
4,4'-DDE	ug/kg	-	-	1.9 U	1.3 U	-	-	2.0 U
4,4'-DDT	ug/kg	-	-	2.2 U	1.5 U	-	-	1.5 U
Aldrin	ug/kg	-	-	3.8 U	2.6 U	-	-	1.0 U
alpha-BHC	ug/kg	-	-	2.6 U	1.7 U	-	-	1.2 U
alpha-Chlordane	ug/kg	-	-	6.1 U	4.1 U	-	-	2.0 U
beta-BHC	ug/kg	-	-	6.2 U	4.2 U	-	-	2.3 U
delta-BHC	ug/kg	-	-	2.1 U	140 U	-	-	2.2 U
Dieldrin	ug/kg	-	-	1.4 U	0.97 U	-	-	1.5 U
Endosulfan I	ug/kg	-	-	2.1 U	1.4 U	-	-	1.6 U
Endosulfan II	ug/kg	-	-	2.9 U	1.9 U	-	-	2.0 U
Endosulfan sulfate	ug/kg	-	-	1.9 U	130 U	-	-	1.7 U
Endrin	ug/kg	-	-	2.2 U	1.5 U	-	-	2.5 U
Endrin aldehyde	ug/kg	-	-	2.9 U	190 U	-	-	1.7 U
Endrin ketone	ug/kg	-	-	1.8 U	1.2 U	-	-	1.2 U
gamma-BHC (lindane)	ug/kg	-	-	4.6 U	3.1 U	-	-	2.4 U
gamma-Chlordane	ug/kg	-	-	2.4 U	2.6 NJ	-	-	1.6 U
Heptachlor	ug/kg	-	-	1.2 U	0.84 U	-	-	2.1 U
Heptachlor epoxide	ug/kg	-	-	3.8 U	2.6 U	-	-	1.9 U
Methoxychlor	ug/kg	-	-	1.9 U	1.3 U	-	-	8.7 U
Toxaphene	ug/kg	-	-	59 U	40 U	-	-	33 U
Herbicides								
2,4,5-T	ug/kg	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/kg	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	-	-	-	-	-	-	-

Table 11

Summary of Analytical Results
Soil/Fill Samples - EU14
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH69-13**	**BH70-13**	**BH105-18**	**BH106-18**	**GP30-18**	**GP31-18**	**SS-46**
Sample ID:		**S-38443-062113-JC-036**	**S-38443-062113-JC-034**	**S-38443-011718-JC-047**	**S-38443-011718-JC-048**	**S-38443-011718-JC-049**	**S-38443-011918-JC-056**	**SS-38443-103018-JC-046**
Sample Date:		**6/21/2013**	**6/21/2013**	**1/17/2018**	**1/17/2018**	**1/17/2018**	**1/19/2018**	**10/30/2018**
Sample Depth:		**21-23 ft BGS**	**19-20 ft BGS**	**8.5-10.5 ft BGS**	**13-15 ft BGS**	**10.5-11.5 ft bgs**	**8-9 ft bgs**	**0-2 ft BGS**
		Duplicate						
Parameters	**Units**							
Dioxin/Furans								
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	25	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	380	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	48	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	52	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	3.0 J	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	11 J	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	1.7 J	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	7.9 J	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	6.9 J	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	1.1 UJ	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	5.6 J	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	2.8 J	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	2.1 J	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	6.0 J	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	5.1 J	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	17	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	0.96 U	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	82 J	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	98 J	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	110 J	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	59 J	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	180 J	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	24 J	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	270 J	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	24 J	-	-	-	-
Asbestos								
Asbestos	%	-	-	ND	ND	-	-	-
Geotechnical								
Coarse sand	%	-	-	-	-	9.4	8.0	-
Fine sand	%	-	-	-	-	9.4	4.3	-
Fines	%	-	-	-	-	11.8	6.4	-
Gravel	%	-	-	-	-	50.4	69.6	-
Medium sand	%	-	-	-	-	19.0	11.7	-
Sand	%	-	-	-	-	37.8	24.0	-
Sieve, #4	% passed	-	-	-	-	49.6	30.4	-
Sieve, #10	% passed	-	-	-	-	40.2	22.4	-
Sieve, #20	% passed	-	-	-	-	31.5	16.0	-
Sieve, #40	% passed	-	-	-	-	21.2	10.7	-
Sieve, #60	% passed	-	-	-	-	15.9	8.6	-
Sieve, #80	% passed	-	-	-	-	14.3	7.9	-
Sieve, #100	% passed	-	-	-	-	13.6	7.5	-
Sieve, #200	% passed	-	-	-	-	11.8	6.4	-

Table 11

Summary of Analytical Results
Soil/Fill Samples - EU14
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH69-13**	**BH70-13**	**BH105-18**	**BH106-18**	**GP30-18**	**GP31-18**	**SS-46**
Sample ID:		**S-38443-062113-JC-036**	**S-38443-062113-JC-034**	**S-38443-011718-JC-047**	**S-38443-011718-JC-048**	**S-38443-011718-JC-049**	**S-38443-011918-JC-056**	**SS-38443-103018-JC-046**
Sample Date:		**6/21/2013**	**6/21/2013**	**1/17/2018**	**1/17/2018**	**1/17/2018**	**1/19/2018**	**10/30/2018**
Sample Depth:		**21-23 ft BGS**	**19-20 ft BGS**	**8.5-10.5 ft BGS**	**13-15 ft BGS**	**10.5-11.5 ft bgs**	**8-9 ft bgs**	**0-2 ft BGS**
		Duplicate						
Parameters	**Units**							
Sieve, 0.375 inch	% passed	-	-	-	-	61.3	38.7	-
Sieve, 0.75 inch	% passed	-	-	-	-	69.6	52.5	-
Sieve, 1 inch	% passed	-	-	-	-	74.2	60.8	-
Sieve, 1.5 inch	% passed	-	-	-	-	100.0	100.0	-
Sieve, 2 inch	% passed	-	-	-	-	100.0	100.0	-
Sieve, 3 inch	% passed	-	-	-	-	100.0	100.0	-
General Chemistry								
Cyanide (total)	mg/kg	-	-	0.31 J	0.055 U	-	-	0.78
Fraction organic carbon (FOC)	%	-	-	-	-	0.3	0.3	-
Total solids	%	-	-	-	-	-	-	-

Notes
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 11

Summary of Analytical Results
Soil/Fill Samples - EU14
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-47**	**SS-48**	**SS-49**	**SS-50**	**SS-51**	**SS-52**	**SS-53**
Sample ID:		**SS-38443-110218-JC-047**	**SS-38443-102918-JC-048**	**SS-38443-102918-JC-049**	**SS-38443-102918-JC-050**	**SS-38443-102918-JC-051**	**SS-38443-102918-JC-052**	**SS-38443-102918-JC-053**
Sample Date:		**11/2/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**
Sample Depth:		**0-2 ft BGS**	**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0.17-2.17 ft BGS**	**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/kg	17 U	23 U	37 U	1.6 U	R	-	18 U
1,1,2,2-Tetrachloroethane	ug/kg	17 UJ	23 U	37 U	R	R	-	18 U
1,1,2-Trichloroethane	ug/kg	16 U	21 U	34 U	2.2 U	R	-	17 U
1,1-Dichloroethane	ug/kg	31 J	15 U	110 J	2.6 J	R	-	12 U
1,1-Dichloroethene	ug/kg	18 U	25 U	40 U	1.7 U	R	-	19 U
1,2,4-Trichlorobenzene	ug/kg	160 U	220 U	350 U	R	R	-	170 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	110 U	140 U	230 U	R	R	-	110 U
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	97 U	130 U	210 U	1.5 U	R	-	100 U
1,2-Dichlorobenzene	ug/kg	26 U	34 U	56 U	R	R	-	27 U
1,2-Dichloroethane	ug/kg	15 U	20 U	32 U	4.3 J	R	-	16 U
1,2-Dichloropropane	ug/kg	9.8 U	13 U	21 U	1.6 U	R	-	10 U
1,3-Dichlorobenzene	ug/kg	26 U	34 U	56 U	R	R	-	27 U
1,4-Dichlorobenzene	ug/kg	21 U	28 U	45 U	R	R	-	22 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	190 U	260 U	540 J	26 J	18 J	-	200 U
2-Hexanone	ug/kg	320 U	430 U	700 U	7.8 U	R	-	340 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	290 U	390 U	630 U	7.1 U	R	-	310 U
Acetone	ug/kg	510 J	400 U	650 U	40 U	R	-	320 U
Benzene	ug/kg	37 J	13 U	310 J	1.3 U	R	-	10 U
Bromodichloromethane	ug/kg	34 U	46 U	74 U	1.3 U	R	-	36 U
Bromoform	ug/kg	130 U	170 U	280 U	4.6 U	R	-	140 U
Bromomethane (Methyl bromide)	ug/kg	200 U	270 U	440 U	1.9 U	R	-	210 U
Carbon disulfide	ug/kg	130 U	180 U	290 U	2.2 U	R	-	140 U
Carbon tetrachloride	ug/kg	22 U	30 U	48 U	6.2 U	R	-	23 U
Chlorobenzene	ug/kg	2100	57 U	93 U	1.7 U	R	-	45 U
Chloroethane	ug/kg	180 U	250 U	400 U	2.3 U	R	-	190 U
Chloroform (Trichloromethane)	ug/kg	11 U	15 U	24 U	1.5 U	R	-	12 U
Chloromethane (Methyl chloride)	ug/kg	81 U	110 U	170 U	2.0 U	R	-	85 U
cis-1,2-Dichloroethene	ug/kg	320	64 J	24 U	49	R	-	180 J
cis-1,3-Dichloropropene	ug/kg	45 U	61 U	98 U	2.7 U	R	-	48 U
Cyclohexane	ug/kg	200 U	270 U	430 U	2.6 U	R	-	210 U
Dibromochloromethane	ug/kg	140 U	190 U	310 U	5.3 U	R	-	150 U
Dichlorodifluoromethane (CFC-12)	ug/kg	65 UJ	87 U	140 U	1.8 U	R	-	68 U
Ethylbenzene	ug/kg	1200	20 U	2600	2.0 U	R	-	22 U
Isopropyl benzene	ug/kg	46 U	62 U	230 J	1.6 U	R	-	49 U
Methyl acetate	ug/kg	640 U	860 U	1400 U	6.5 U	R	-	680 U
Methyl cyclohexane	ug/kg	150 J	110 U	790 J	2.3 U	R	-	85 U
Methyl tert butyl ether (MTBE)	ug/kg	45 U	61 U	98 U	1.6 U	R	-	48 U
Methylene chloride	ug/kg	470 U	630 U	1000 U	23 U	R	-	490 U
Styrene	ug/kg	15 U	20 U	32 U	2.2 U	R	-	16 U
Tetrachloroethene	ug/kg	67 J	25 U	40 U	1.4 U	1.7 J	-	19 U
Toluene	ug/kg	390	74 U	4400	1.5 U	R	-	120 U
trans-1,2-Dichloroethene	ug/kg	24 J	25 U	40 U	2.2 J	R	-	20 J
trans-1,3-Dichloropropene	ug/kg	130 U	170 U	280 U	2.0 U	R	-	140 U
Trichloroethene	ug/kg	35 J	6400	50 J	5.2 J	9.6 J	-	2200
Trichlorofluoromethane (CFC-11)	ug/kg	56 U	75 U	120 U	2.1 U	R	-	59 U

Table 11

Summary of Analytical Results
Soil/Fill Samples - EU14
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-47**	**SS-48**	**SS-49**	**SS-50**	**SS-51**	**SS-52**	**SS-53**
Sample ID:		**SS-38443-110218-JC-047**	**SS-38443-102918-JC-048**	**SS-38443-102918-JC-049**	**SS-38443-102918-JC-050**	**SS-38443-102918-JC-051**	**SS-38443-102918-JC-052**	**SS-38443-102918-JC-053**
Sample Date:		**11/2/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**
Sample Depth:		**0-2 ft BGS**	**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0.17-2.17 ft BGS**	**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**							
Trifluorotrichloroethane (CFC-113)	ug/kg	82 U	110 U	180 U	2.4 U	R	-	87 U
Vinyl chloride	ug/kg	39 J	16 U	410 J	1.6 J	R	-	13 U
Xylenes (total)	ug/kg	890	38 U	9400	3.0 U	R	-	97 J
Semi-Volatiles								
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	29 U	13 UJ	15 UJ	55 UJ	24 UJ	-	30 UJ
2,4,5-Trichlorophenol	ug/kg	200 U	87 U	110 U	380 U	170 U	-	210 U
2,4,6-Trichlorophenol	ug/kg	180 U	80 U	98 U	350 U	150 U	-	190 U
2,4-Dichlorophenol	ug/kg	130 U	55 U	67 U	240 U	110 U	-	130 U
2,4-Dimethylphenol	ug/kg	110 U	50 U	61 U	220 U	97 U	-	120 U
2,4-Dinitrophenol	ug/kg	410 U	180 U	220 U	790 U	340 U	-	430 U
2,4-Dinitrotoluene	ug/kg	180 U	78 U	95 U	340 U	150 U	-	190 U
2,6-Dinitrotoluene	ug/kg	160 U	70 U	86 U	310 U	140 U	-	170 U
2-Chloronaphthalene	ug/kg	40 U	18 U	21 U	78 U	34 U	-	42 U
2-Chlorophenol	ug/kg	29 U	13 U	15 U	55 U	24 U	-	30 U
2-Methylnaphthalene	ug/kg	52	220	720	260	180	-	73
2-Methylphenol	ug/kg	89 U	39 U	48 U	170 U	75 U	-	93 U
2-Nitroaniline	ug/kg	110 U	50 U	61 U	220 U	97 U	-	120 U
2-Nitrophenol	ug/kg	37 U	16 U	20 U	72 U	31 U	-	39 U
3&4-Methylphenol	ug/kg	83 U	36 U	210 J	160 U	70 U	-	87 U
3,3'-Dichlorobenzidine	ug/kg	120 U	54 U	66 U	240 U	100 U	-	130 U
3-Nitroaniline	ug/kg	140 U	62 U	75 U	270 U	120 U	-	150 U
4,6-Dinitro-2-methylphenol	ug/kg	230 U	100 U	120 U	440 U	190 U	-	240 U
4-Bromophenyl phenyl ether	ug/kg	40 U	18 U	21 U	78 U	34 U	-	42 U
4-Chloro-3-methylphenol	ug/kg	130 U	57 U	69 U	250 U	110 U	-	130 U
4-Chloroaniline	ug/kg	86 U	38 U	46 U	170 U	73 U	-	90 U
4-Chlorophenyl phenyl ether	ug/kg	40 U	18 U	21 U	78 U	34 U	-	42 U
4-Methylphenol	ug/kg	-	-	-	-	-	-	-
4-Nitroaniline	ug/kg	170 U	75 U	92 U	330 U	150 U	-	180 U
4-Nitrophenol	ug/kg	270 U	120 U	140 U	520 U	230 U	-	280 U
Acenaphthene	ug/kg	42 J	23	22 J	16 U	72	-	34 J
Acenaphthylene	ug/kg	16 J	310	14 J	79 J	49	-	24 J
Acetophenone	ug/kg	31 U	48 J	17 U	61 U	27 U	-	38 J
Anthracene	ug/kg	120	210	36	66 J	250	-	180
Atrazine	ug/kg	100 U	45 U	55 U	200 U	87 U	-	110 U
Benzaldehyde	ug/kg	66 U	140	35 U	130 U	56 U	-	69 U
Benzo(a)anthracene	ug/kg	330	1700	59	200	990	-	850
Benzo(a)pyrene	ug/kg	260	2000	39	260	890	-	940
Benzo(b)fluoranthene	ug/kg	370	3000	61	430	1300	-	1200
Benzo(g,h,i)perylene	ug/kg	150	1900	46	360	740	-	960
Benzo(k)fluoranthene	ug/kg	170	1200	11 U	160	480	-	530
Biphenyl (1,1-Biphenyl)	ug/kg	49 U	29 J	97	94 U	41 U	-	51 U
bis(2-Chloroethoxy)methane	ug/kg	34 U	15 U	18 U	67 U	29 U	-	36 U
bis(2-Chloroethyl)ether	ug/kg	34 U	15 U	18 U	67 U	29 U	-	36 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	150 U	130	78 U	1900	150 J	-	200 J
Butyl benzylphthalate (BBP)	ug/kg	63 U	28 U	34 U	250 J	53 U	-	66 U

Table 11

Summary of Analytical Results
Soil/Fill Samples - EU14
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-47**	**SS-48**	**SS-49**	**SS-50**	**SS-51**	**SS-52**	**SS-53**
Sample ID:		**SS-38443-110218-JC-047**	**SS-38443-102918-JC-048**	**SS-38443-102918-JC-049**	**SS-38443-102918-JC-050**	**SS-38443-102918-JC-051**	**SS-38443-102918-JC-052**	**SS-38443-102918-JC-053**
Sample Date:		**11/2/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**
Sample Depth:		**0-2 ft BGS**	**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0.17-2.17 ft BGS**	**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**							
Caprolactam	ug/kg	210 U	94 U	120 U	420 U	180 U	-	220 U
Carbazole	ug/kg	60 J	71	29 U	110 U	120	-	76 J
Chrysene	ug/kg	350	2000	94	280	1000	-	930
Dibenz(a,h)anthracene	ug/kg	20 U	510	11 U	91	200	-	230
Dibenzofuran	ug/kg	49 J	75	120	72 U	94 J	-	70 J
Diethyl phthalate	ug/kg	89 U	39 U	48 U	170 U	75 U	-	93 U
Dimethyl phthalate	ug/kg	40 U	18 U	21 U	78 U	34 U	-	42 U
Di-n-butylphthalate (DBP)	ug/kg	63 U	71 J	34 U	120 U	53 U	-	66 U
Di-n-octyl phthalate (DnOP)	ug/kg	80 U	35 U	43 U	160 U	68 U	-	84 U
Fluoranthene	ug/kg	730	1800	110	350	2000	-	1600
Fluorene	ug/kg	63	21	51	15 U	67	-	35 J
Hexachlorobenzene	ug/kg	8.1 U	3.6 U	4.4 U	16 U	6.9 U	-	8.5 U
Hexachlorobutadiene	ug/kg	34 U	15 U	18 U	67 U	29 U	-	36 U
Hexachlorocyclopentadiene	ug/kg	180 U	78 U	95 U	340 U	150 U	-	190 U
Hexachloroethane	ug/kg	26 U	11 U	14 U	50 U	22 U	-	27 U
Indeno(1,2,3-cd)pyrene	ug/kg	150	1700	18 J	320	640	-	720
Isophorone	ug/kg	34 U	15 U	18 U	67 U	29 U	-	36 U
Naphthalene	ug/kg	64	190	620	150	160	-	95
Nitrobenzene	ug/kg	37 U	16 U	20 U	72 U	31 U	-	39 U
N-Nitrosodi-n-propylamine	ug/kg	31 U	14 UJ	17 UJ	61 UJ	27 UJ	-	33 UJ
N-Nitrosodiphenylamine	ug/kg	34 U	15 U	18 U	67 U	29 U	-	36 U
Pentachlorophenol	ug/kg	170 U	73 U	89 U	320 U	140 U	-	170 U
Phenanthrene	ug/kg	530	550	380	250	1100	-	840
Phenol	ug/kg	23 U	50 J	12 U	44 U	19 U	-	37 J
Pyrene	ug/kg	560	2000	110	310	1600	-	1300
Metals								
Aluminum	mg/kg	5900	8200	6800	4000	9200	-	7700
Antimony	mg/kg	1.9 J	11	1.2	10	8.5	-	13
Arsenic	mg/kg	8.3	17	16	9.0	20	-	33
Barium	mg/kg	160	3100	260	240	2800	-	1200
Beryllium	mg/kg	0.68	2.3	3.3	0.45	1.3	-	0.69
Cadmium	mg/kg	0.80	11	0.63	5.9	9.3	-	8.5
Calcium	mg/kg	91000	110000	2200	110000	49000	-	56000
Chromium	mg/kg	21	120	29	32	200	-	100
Chromium III (trivalent)	mg/kg	21	120	29	32	200	-	100
Chromium VI (hexavalent)	mg/kg	0.28 U	0.95 J	0.64 J	1.3 U	1.2	-	0.55 J
Cobalt	mg/kg	5.2	16	12	5.1	17	-	13
Copper	mg/kg	250	2400	62	1300	1600	-	1700
Iron	mg/kg	16000	71000	60000	21000	58000	-	62000
Lead	mg/kg	510 J	4200	22	700	1600	-	3300
Lead - coarse fraction	mg/kg	-	3600	-	47000	-	-	-
Lead - fine fraction	mg/kg	-	3600	-	28000	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	3600	-	43000	-	-	-
Magnesium	mg/kg	33000	13000	680	44000	9000	-	13000
Manganese	mg/kg	300 J	750	230	400	880	-	630

Table 11

Summary of Analytical Results
Soil/Fill Samples - EU14
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-47**	**SS-48**	**SS-49**	**SS-50**	**SS-51**	**SS-52**	**SS-53**
Sample ID:		**SS-38443-110218-JC-047**	**SS-38443-102918-JC-048**	**SS-38443-102918-JC-049**	**SS-38443-102918-JC-050**	**SS-38443-102918-JC-051**	**SS-38443-102918-JC-052**	**SS-38443-102918-JC-053**
Sample Date:		**11/2/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**
Sample Depth:		**0-2 ft BGS**	**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0.17-2.17 ft BGS**	**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**							
Mercury	mg/kg	0.22	0.28	0.48	0.32	0.62	-	0.45
Nickel	mg/kg	17	110	20	54	110	-	83
Potassium	mg/kg	800	810	1300	550	1200	-	740
Selenium	mg/kg	0.73 J	1.6	5.6	4.4	2.0	-	1.1
Silver	mg/kg	0.28	2.0	0.072 J	0.63	6.5	-	4.3
Sodium	mg/kg	140 J	330	250 J	160 J	310	-	310
Thallium	mg/kg	0.24	0.23	0.49	0.11 J	0.30	-	0.17 J
Vanadium	mg/kg	18	28	46	13	34	-	29
Zinc	mg/kg	310	3000	58	470	2300	-	2000
PCBs								
Aroclor-1016 (PCB-1016)	ug/kg	24 U	28 U	34 U	490 U	27 U	-	26 U
Aroclor-1221 (PCB-1221)	ug/kg	27 U	31 U	37 U	530 U	29 U	-	29 U
Aroclor-1232 (PCB-1232)	ug/kg	25 U	29 U	35 U	510 U	28 U	-	27 U
Aroclor-1242 (PCB-1242)	ug/kg	21 U	24 U	29 U	420 U	23 U	-	370
Aroclor-1248 (PCB-1248)	ug/kg	27 U	31 U	37 U	530 U	29 U	-	29 U
Aroclor-1254 (PCB-1254)	ug/kg	330	390	35 U	510 U	99	-	620
Aroclor-1260 (PCB-1260)	ug/kg	24 U	28 U	250 J	14000	27 U	-	26 U
Pesticides								
4,4'-DDD	ug/kg	8.2 U	9.4 U	23 U	82 U	9.5 NJ	-	8.8 U
4,4'-DDE	ug/kg	8.4 U	46	23 U	83 U	53	-	9.4 NJ
4,4'-DDT	ug/kg	6.3 U	51 J	61 J	62 U	74	-	6.7 U
Aldrin	ug/kg	4.3 U	4.9 U	12 U	42 U	4.7 U	-	4.6 U
alpha-BHC	ug/kg	5.1 U	5.8 U	14 U	50 U	5.6 U	-	5.4 U
alpha-Chlordane	ug/kg	8.3 U	9.6 U	23 U	83 U	9.2 U	-	8.9 U
beta-BHC	ug/kg	9.6 U	11 U	26 U	95 U	11 U	-	10 U
delta-BHC	ug/kg	9.4 U	11 U	26 U	93 U	10 U	-	10 U
Dieldrin	ug/kg	6.1 U	7.0 U	17 U	61 U	6.7 U	-	6.5 U
Endosulfan I	ug/kg	6.7 U	7.6 U	18 U	66 U	7.3 U	-	7.1 U
Endosulfan II	ug/kg	8.2 U	9.4 U	23 U	82 U	9.1 U	-	8.8 U
Endosulfan sulfate	ug/kg	7.1 U	8.2 U	20 U	71 U	7.8 U	-	7.6 U
Endrin	ug/kg	11 U	12 U	29 U	100 U	12 U	-	11 U
Endrin aldehyde	ug/kg	7.3 U	8.3 U	20 U	72 U	8.0 U	-	7.8 U
Endrin ketone	ug/kg	4.9 U	5.7 U	14 U	49 U	5.5 U	-	5.3 U
gamma-BHC (lindane)	ug/kg	9.9 U	11 U	27 U	99 U	11 U	-	11 U
gamma-Chlordane	ug/kg	6.8 U	7.8 U	19 U	68 U	7.5 U	-	7.3 U
Heptachlor	ug/kg	8.8 U	10 U	24 U	87 U	9.7 U	-	9.4 U
Heptachlor epoxide	ug/kg	8.0 U	9.2 U	22 U	79 U	8.8 U	-	8.6 U
Methoxychlor	ug/kg	36 U	42 U	100 U	360 U	40 U	-	39 U
Toxaphene	ug/kg	140 U	160 U	380 U	1400 U	150 U	-	150 U
Herbicides								
2,4,5-T	ug/kg	-	-	-	-	-	16 U	-
2,4,5-TP (Silvex)	ug/kg	-	-	-	-	-	17 U	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	-	-	-	-	-	61 U	-

Table 11

Summary of Analytical Results
Soil/Fill Samples - EU14
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-47**	**SS-48**	**SS-49**	**SS-50**	**SS-51**	**SS-52**	**SS-53**
Sample ID:		**SS-38443-110218-JC-047**	**SS-38443-102918-JC-048**	**SS-38443-102918-JC-049**	**SS-38443-102918-JC-050**	**SS-38443-102918-JC-051**	**SS-38443-102918-JC-052**	**SS-38443-102918-JC-053**
Sample Date:		**11/2/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**
Sample Depth:		**0-2 ft BGS**	**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0.17-2.17 ft BGS**	**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**							
Dioxin/Furans								
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Asbestos								
Asbestos	%	-	-	-	-	-	-	-
Geotechnical								
Coarse sand	%	-	-	-	-	-	-	-
Fine sand	%	-	-	-	-	-	-	-
Fines	%	-	-	-	-	-	-	-
Gravel	%	-	-	-	-	-	-	-
Medium sand	%	-	-	-	-	-	-	-
Sand	%	-	-	-	-	-	-	-
Sieve, #4	% passed	-	-	-	-	-	-	-
Sieve, #10	% passed	-	-	-	-	-	-	-
Sieve, #20	% passed	-	-	-	-	-	-	-
Sieve, #40	% passed	-	-	-	-	-	-	-
Sieve, #60	% passed	-	-	-	-	-	-	-
Sieve, #80	% passed	-	-	-	-	-	-	-
Sieve, #100	% passed	-	-	-	-	-	-	-
Sieve, #200	% passed	-	-	-	-	-	-	-

Table 11

Summary of Analytical Results
Soil/Fill Samples - EU14
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-47**	**SS-48**	**SS-49**	**SS-50**	**SS-51**	**SS-52**	**SS-53**
Sample ID:		**SS-38443-110218-JC-047**	**SS-38443-102918-JC-048**	**SS-38443-102918-JC-049**	**SS-38443-102918-JC-050**	**SS-38443-102918-JC-051**	**SS-38443-102918-JC-052**	**SS-38443-102918-JC-053**
Sample Date:		**11/2/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**
Sample Depth:		**0-2 ft BGS**	**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0.17-2.17 ft BGS**	**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**							
Sieve, 0.375 inch	% passed	-	-	-	-	-	-	-
Sieve, 0.75 inch	% passed	-	-	-	-	-	-	-
Sieve, 1 inch	% passed	-	-	-	-	-	-	-
Sieve, 1.5 inch	% passed	-	-	-	-	-	-	-
Sieve, 2 inch	% passed	-	-	-	-	-	-	-
Sieve, 3 inch	% passed	-	-	-	-	-	-	-
General Chemistry								
Cyanide (total)	mg/kg	0.23 U	2.7	0.29 U	0.21 U	13	-	0.56 J
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-

Notes
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 11

Summary of Analytical Results
Soil/Fill Samples - EU14
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-169-AS**	**SS-170-AS**	**TT-8**	**TT-8**	**TT-8**	**TT-9**
Sample ID:		**SS-38443-103018-JC-169**	**SS-38443-102918-JC-170**	**S-38443-100608-KMV-050**	**S-38443-100608-KMV-050-D**	**S-38443-100608-KMV-051**	**S-38443-100308-KMV-047**
Sample Date:		**10/30/2018**	**10/29/2018**	**10/6/2008**	**10/6/2008**	**10/6/2008**	**10/3/2008**
Sample Depth:		**0-0.5 ft BGS**	**0-0.5 ft BGS**	**4 ft BGS**	**4 ft BGS**	**15 ft BGS**	**7 ft BGS**
					Duplicate		
Parameters	**Units**						
Volatiles							
1,1,1-Trichloroethane	ug/kg	-	-	6.2 U	6.3 U	4.7 U	580 U
1,1,2,2-Tetrachloroethane	ug/kg	-	-	6.2 U	6.3 UJ	4.7 U	580 U
1,1,2-Trichloroethane	ug/kg	-	-	6.2 U	6.3 UJ	4.7 U	580 U
1,1-Dichloroethane	ug/kg	-	-	5.0 J	36 J	1.1 J	240 J
1,1-Dichloroethene	ug/kg	-	-	0.89 J	4.6 J	4.7 U	580 U
1,2,4-Trichlorobenzene	ug/kg	-	-	6.2 U	6.3 UJ	4.7 U	580 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	-	-	12 U	13 UJ	9.4 U	1200 U
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	-	-	6.2 U	6.3 UJ	4.7 U	580 U
1,2-Dichlorobenzene	ug/kg	-	-	6.2 U	6.3 UJ	4.7 U	580 U
1,2-Dichloroethane	ug/kg	-	-	6.2 U	6.3 U	4.7 U	580 U
1,2-Dichloropropane	ug/kg	-	-	6.2 U	6.3 U	4.7 U	580 U
1,3-Dichlorobenzene	ug/kg	-	-	6.2 U	6.3 UJ	4.7 U	580 U
1,4-Dichlorobenzene	ug/kg	-	-	6.2 U	6.3 UJ	4.7 U	100 J
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	-	-	12 J	25 U	2.8 J	130 J
2-Hexanone	ug/kg	-	-	25 U	25 UJ	19 U	2300 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	-	-	25 U	25 U	19 U	1000 J
Acetone	ug/kg	-	-	62	25 UJ	14 J	2300 U
Benzene	ug/kg	-	-	1.3 J	2.0 J	4.7 U	150 J
Bromodichloromethane	ug/kg	-	-	6.2 U	6.3 U	4.7 U	580 U
Bromoform	ug/kg	-	-	6.2 U	6.3 UJ	4.7 U	580 U
Bromomethane (Methyl bromide)	ug/kg	-	-	6.2 U	6.3 U	4.7 U	580 U
Carbon disulfide	ug/kg	-	-	2.7 J	0.83 J	4.7 U	580 U
Carbon tetrachloride	ug/kg	-	-	6.2 U	6.3 U	4.7 U	580 U
Chlorobenzene	ug/kg	-	-	6.2 U	6.3 UJ	4.7 U	4000
Chloroethane	ug/kg	-	-	6.2 U	4.3 J	4.7 U	580 U
Chloroform (Trichloromethane)	ug/kg	-	-	6.2 U	6.3 U	4.7 U	580 U
Chloromethane (Methyl chloride)	ug/kg	-	-	6.2 U	6.3 U	4.7 U	580 U
cis-1,2-Dichloroethene	ug/kg	-	-	4.5 J	21 J	0.63 J	890
cis-1,3-Dichloropropene	ug/kg	-	-	6.2 U	6.3 U	4.7 U	580 U
Cyclohexane	ug/kg	-	-	12 U	0.74 J	9.4 U	1200 U
Dibromochloromethane	ug/kg	-	-	6.2 U	6.3 UJ	4.7 U	580 U
Dichlorodifluoromethane (CFC-12)	ug/kg	-	-	6.2 U	6.3 U	4.7 U	580 U
Ethylbenzene	ug/kg	-	-	6.2 U	6.3 UJ	4.7 U	15000
Isopropyl benzene	ug/kg	-	-	6.2 U	6.3 UJ	4.7 U	110 J
Methyl acetate	ug/kg	-	-	12 U	13 U	9.4 U	190 J
Methyl cyclohexane	ug/kg	-	-	5.5 J	42 J	0.84 J	250 J
Methyl tert butyl ether (MTBE)	ug/kg	-	-	25 U	0.62 J	19 U	2300 U
Methylene chloride	ug/kg	-	-	6.2 U	6.3 U	4.7 U	260 J
Styrene	ug/kg	-	-	6.2 U	6.3 UJ	4.7 U	580 U
Tetrachloroethene	ug/kg	-	-	6.2 U	6.3 UJ	4.7 U	580 U
Toluene	ug/kg	-	-	0.65 J	3.2 J	4.7 U	5300
trans-1,2-Dichloroethene	ug/kg	-	-	6.2 U	6.3 U	4.7 U	580 U
trans-1,3-Dichloropropene	ug/kg	-	-	6.2 U	6.3 UJ	4.7 U	580 U
Trichloroethene	ug/kg	-	-	6.7	5.3 J	4.7 U	350 J
Trichlorofluoromethane (CFC-11)	ug/kg	-	-	6.2 U	6.3 U	4.7 U	580 U

Table 11

Summary of Analytical Results
Soil/Fill Samples - EU14
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-169-AS**	**SS-170-AS**	**TT-8**	**TT-8**	**TT-8**	**TT-9**
Sample ID:		**SS-38443-103018-JC-169**	**SS-38443-102918-JC-170**	**S-38443-100608-KMV-050**	**S-38443-100608-KMV-050-D**	**S-38443-100608-KMV-051**	**S-38443-100308-KMV-047**
Sample Date:		**10/30/2018**	**10/29/2018**	**10/6/2008**	**10/6/2008**	**10/6/2008**	**10/3/2008**
Sample Depth:		**0-0.5 ft BGS**	**0-0.5 ft BGS**	**4 ft BGS**	**4 ft BGS**	**15 ft BGS**	**7 ft BGS**
					Duplicate		
Parameters	**Units**						
Trifluorotrichloroethane (CFC-113)	ug/kg	-	-	6.2 U	6.3 U	4.7 U	580 U
Vinyl chloride	ug/kg	-	-	5.5 J	54 J	4.7 U	220 J
Xylenes (total)	ug/kg	-	-	1.7 J	13 UJ	1.1 J	27000
Semi-Volatiles							
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	-	-	290 U	450 U	100 U	1300 U
2,4,5-Trichlorophenol	ug/kg	-	-	440 U	680 U	160 U	1900 U
2,4,6-Trichlorophenol	ug/kg	-	-	440 U	680 U	160 U	1900 U
2,4-Dichlorophenol	ug/kg	-	-	440 U	680 U	160 U	1900 U
2,4-Dimethylphenol	ug/kg	-	-	440 U	680 U	160 U	1900 U
2,4-Dinitrophenol	ug/kg	-	-	960 U	1500 U	340 U	4200 U
2,4-Dinitrotoluene	ug/kg	-	-	580 U	910 U	210 U	2600 U
2,6-Dinitrotoluene	ug/kg	-	-	580 U	910 U	210 U	2600 U
2-Chloronaphthalene	ug/kg	-	-	150 U	230 U	52 U	640 U
2-Chlorophenol	ug/kg	-	-	150 U	230 U	52 U	640 U
2-Methylnaphthalene	ug/kg	-	-	19 U	30 U	6.9 U	470
2-Methylphenol	ug/kg	-	-	580 UJ	910 UJ	210 UJ	2600 U
2-Nitroaniline	ug/kg	-	-	580 U	910 U	210 U	2600 U
2-Nitrophenol	ug/kg	-	-	150 U	230 U	52 U	640 U
3&4-Methylphenol	ug/kg	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/kg	-	-	290 U	450 U	100 U	1300 U
3-Nitroaniline	ug/kg	-	-	580 U	910 U	210 U	2600 U
4,6-Dinitro-2-methylphenol	ug/kg	-	-	440 U	680 U	160 U	1900 U
4-Bromophenyl phenyl ether	ug/kg	-	-	150 U	230 U	52 U	640 U
4-Chloro-3-methylphenol	ug/kg	-	-	440 U	680 U	160 U	1900 U
4-Chloroaniline	ug/kg	-	-	440 U	680 U	160 U	1900 U
4-Chlorophenyl phenyl ether	ug/kg	-	-	150 U	230 U	52 U	640 U
4-Methylphenol	ug/kg	-	-	580 U	910 U	210 U	2600 U
4-Nitroaniline	ug/kg	-	-	580 U	910 U	210 U	2600 U
4-Nitrophenol	ug/kg	-	-	960 U	1500 U	340 U	4200 U
Acenaphthene	ug/kg	-	-	19 U	30 U	6.9 U	85 U
Acenaphthylene	ug/kg	-	-	19 U	30 U	6.9 U	85 U
Acetophenone	ug/kg	-	-	290 U	450 U	100 U	1300 U
Anthracene	ug/kg	-	-	19 U	30 U	6.9 U	85 U
Atrazine	ug/kg	-	-	580 U	910 U	210 U	2600 U
Benzaldehyde	ug/kg	-	-	290 U	450 U	100 U	1300 U
Benzo(a)anthracene	ug/kg	-	-	170	30 U	6.9 U	85 U
Benzo(a)pyrene	ug/kg	-	-	200 J	47 J	6.9 U	85 U
Benzo(b)fluoranthene	ug/kg	-	-	280 J	88 J	6.9 U	85 U
Benzo(g,h,i)perylene	ug/kg	-	-	140	49	6.9 U	85 U
Benzo(k)fluoranthene	ug/kg	-	-	120	30 U	6.9 U	85 U
Biphenyl (1,1-Biphenyl)	ug/kg	-	-	150 U	230 U	52 U	640 U
bis(2-Chloroethoxy)methane	ug/kg	-	-	290 U	450 U	100 U	1300 U
bis(2-Chloroethyl)ether	ug/kg	-	-	290 U	450 U	100 U	1300 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	-	-	150 U	230 U	52 U	720
Butyl benzylphthalate (BBP)	ug/kg	-	-	150 U	230 U	52 U	640 U

Table 11

Summary of Analytical Results
Soil/Fill Samples - EU14
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-169-AS**	**SS-170-AS**	**TT-8**	**TT-8**	**TT-8**	**TT-9**
Sample ID:		**SS-38443-103018-JC-169**	**SS-38443-102918-JC-170**	**S-38443-100608-KMV-050**	**S-38443-100608-KMV-050-D**	**S-38443-100608-KMV-051**	**S-38443-100308-KMV-047**
Sample Date:		**10/30/2018**	**10/29/2018**	**10/6/2008**	**10/6/2008**	**10/6/2008**	**10/3/2008**
Sample Depth:		**0-0.5 ft BGS**	**0-0.5 ft BGS**	**4 ft BGS**	**4 ft BGS**	**15 ft BGS**	**7 ft BGS**
					Duplicate		
Parameters	**Units**						
Caprolactam	ug/kg	-	-	960 U	1500 U	340 U	4200 U
Carbazole	ug/kg	-	-	150 U	230 U	52 U	640 U
Chrysene	ug/kg	-	-	210	180	6.9 U	85 U
Dibenz(a,h)anthracene	ug/kg	-	-	19 U	30 U	6.9 U	85 U
Dibenzofuran	ug/kg	-	-	150 U	230 U	52 U	640 U
Diethyl phthalate	ug/kg	-	-	150 U	230 U	52 U	640 U
Dimethyl phthalate	ug/kg	-	-	150 U	230 U	52 U	640 U
Di-n-butylphthalate (DBP)	ug/kg	-	-	150 U	230 U	52 U	640 U
Di-n-octyl phthalate (DnOP)	ug/kg	-	-	150 U	230 U	52 U	640 U
Fluoranthene	ug/kg	-	-	340 J	940 J	6.9 U	85 U
Fluorene	ug/kg	-	-	19 U	30 U	6.9 U	85 U
Hexachlorobenzene	ug/kg	-	-	19 U	30 U	6.9 U	85 U
Hexachlorobutadiene	ug/kg	-	-	150 U	230 U	52 U	640 U
Hexachlorocyclopentadiene	ug/kg	-	-	960 U	1500 U	340 U	4200 U
Hexachloroethane	ug/kg	-	-	150 U	230 U	52 U	640 U
Indeno(1,2,3-cd)pyrene	ug/kg	-	-	130	30 U	6.9 U	85 U
Isophorone	ug/kg	-	-	150 U	230 U	52 U	640 U
Naphthalene	ug/kg	-	-	19 U	30 U	6.9 U	810
Nitrobenzene	ug/kg	-	-	290 U	450 U	100 U	1300 U
N-Nitrosodi-n-propylamine	ug/kg	-	-	150 U	230 U	52 U	640 U
N-Nitrosodiphenylamine	ug/kg	-	-	150 U	230 U	52 U	640 U
Pentachlorophenol	ug/kg	-	-	440 U	680 U	160 U	1900 U
Phenanthrene	ug/kg	-	-	110 J	390 J	6.9 U	85 U
Phenol	ug/kg	-	-	150 U	230 U	52 U	640 U
Pyrene	ug/kg	-	-	300	830	6.9 U	85 U
Metals							
Aluminum	mg/kg	-	-	7270	7130	2100	5740
Antimony	mg/kg	-	-	1.8 J	2.0 J	6.2 UJ	6.6 J
Arsenic	mg/kg	-	-	8.6	10.6	2.9	35.0
Barium	mg/kg	-	-	1150	450	10.1 J	197
Beryllium	mg/kg	-	-	0.93	1.2	0.52 U	2.6
Cadmium	mg/kg	-	-	2.0 J	2.6 J	0.18 J	6.3
Calcium	mg/kg	-	-	55500	52600	109000	1670 J
Chromium	mg/kg	-	-	60.0 J	47.4 J	5.2 J	40.4
Chromium III (trivalent)	mg/kg	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-
Cobalt	mg/kg	-	-	4.7 J	7.0	2.3 J	11.8
Copper	mg/kg	-	-	176 J	173 J	8.1 J	389
Iron	mg/kg	-	-	13700	20400	5820	16800
Lead	mg/kg	-	-	234	238	4.6 J	1200
Lead - coarse fraction	mg/kg	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-
Magnesium	mg/kg	-	-	26200	20700	51300	652 J
Manganese	mg/kg	-	-	190 J	211 J	198 J	163

Table 11

Summary of Analytical Results
Soil/Fill Samples - EU14
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-169-AS**	**SS-170-AS**	**TT-8**	**TT-8**	**TT-8**	**TT-9**
Sample ID:		**SS-38443-103018-JC-169**	**SS-38443-102918-JC-170**	**S-38443-100608-KMV-050**	**S-38443-100608-KMV-050-D**	**S-38443-100608-KMV-051**	**S-38443-100308-KMV-047**
Sample Date:		**10/30/2018**	**10/29/2018**	**10/6/2008**	**10/6/2008**	**10/6/2008**	**10/3/2008**
Sample Depth:		**0-0.5 ft BGS**	**0-0.5 ft BGS**	**4 ft BGS**	**4 ft BGS**	**15 ft BGS**	**7 ft BGS**
					Duplicate		
Parameters	**Units**						
Mercury	mg/kg	-	-	0.12	0.13	0.10 U	0.40
Nickel	mg/kg	-	-	31.9 J	21.4 J	6.8 J	40.2
Potassium	mg/kg	-	-	746	596	313 J	415 J
Selenium	mg/kg	-	-	0.61 J	28.4 U	25.9 U	7.2 J
Silver	mg/kg	-	-	1.2 U	1.1 U	1.0 U	0.94 J
Sodium	mg/kg	-	-	596	543 J	191 J	106 J
Thallium	mg/kg	-	-	0.18	0.12 U	0.10 U	0.64 U
Vanadium	mg/kg	-	-	18.9	19.3	8.4	37.3
Zinc	mg/kg	-	-	2460	2050	23.2	89.6
PCBs							
Aroclor-1016 (PCB-1016)	ug/kg	-	-	77 U	75 U	34 U	420 U
Aroclor-1221 (PCB-1221)	ug/kg	-	-	77 U	75 U	34 U	420 U
Aroclor-1232 (PCB-1232)	ug/kg	-	-	77 U	75 U	34 U	420 U
Aroclor-1242 (PCB-1242)	ug/kg	-	-	77 U	75 U	34 U	420 U
Aroclor-1248 (PCB-1248)	ug/kg	-	-	77 U	430	34 U	420 U
Aroclor-1254 (PCB-1254)	ug/kg	-	-	77 U	75 U	34 UJ	3700
Aroclor-1260 (PCB-1260)	ug/kg	-	-	500	380	34 UJ	420 U
Pesticides							
4,4'-DDD	ug/kg	-	-	200 U	39 U	8.8 U	44 U
4,4'-DDE	ug/kg	-	-	200 U	9.7 J	8.8 U	220
4,4'-DDT	ug/kg	-	-	200 UJ	21 J	8.8 UJ	44 UJ
Aldrin	ug/kg	-	-	200 U	39 U	8.8 U	44 U
alpha-BHC	ug/kg	-	-	200 U	39 U	8.8 U	44 U
alpha-Chlordane	ug/kg	-	-	200 U	39 U	8.8 U	44 U
beta-BHC	ug/kg	-	-	200 U	39 U	8.8 U	44 U
delta-BHC	ug/kg	-	-	200 U	39 U	8.8 U	44 U
Dieldrin	ug/kg	-	-	200 U	12 J	8.8 U	270 J
Endosulfan I	ug/kg	-	-	200 U	39 U	8.8 U	44 U
Endosulfan II	ug/kg	-	-	200 U	39 U	8.8 U	44 U
Endosulfan sulfate	ug/kg	-	-	200 U	39 U	8.8 U	44 U
Endrin	ug/kg	-	-	200 U	39 U	8.8 U	44 U
Endrin aldehyde	ug/kg	-	-	200 U	39 U	8.8 U	28 J
Endrin ketone	ug/kg	-	-	200 U	19 J	8.8 U	28 J
gamma-BHC (lindane)	ug/kg	-	-	200 U	39 U	8.8 U	44 U
gamma-Chlordane	ug/kg	-	-	200 U	39 U	8.8 U	180 J
Heptachlor	ug/kg	-	-	200 U	39 U	8.8 U	44 U
Heptachlor epoxide	ug/kg	-	-	200 U	39 U	8.8 U	27 J
Methoxychlor	ug/kg	-	-	380 U	75 U	17 U	85 UJ
Toxaphene	ug/kg	-	-	7800 U	1500 U	350 U	1700 U
Herbicides							
2,4,5-T	ug/kg	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/kg	-	-	23 U	23 U	21 U	26 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	-	-	93 U	91 U	83 U	100 UJ

Table 11

Summary of Analytical Results
Soil/Fill Samples - EU14
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-169-AS**	**SS-170-AS**	**TT-8**	**TT-8**	**TT-8**	**TT-9**
Sample ID:		**SS-38443-103018-JC-169**	**SS-38443-102918-JC-170**	**S-38443-100608-KMV-050**	**S-38443-100608-KMV-050-D**	**S-38443-100608-KMV-051**	**S-38443-100308-KMV-047**
Sample Date:		**10/30/2018**	**10/29/2018**	**10/6/2008**	**10/6/2008**	**10/6/2008**	**10/3/2008**
Sample Depth:		**0-0.5 ft BGS**	**0-0.5 ft BGS**	**4 ft BGS**	**4 ft BGS**	**15 ft BGS**	**7 ft BGS**
					Duplicate		
Parameters	**Units**						
Dioxin/Furans							
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-
Asbestos							
Asbestos	%	ND	ND	-	-	-	-
Geotechnical							
Coarse sand	%	-	-	-	-	-	-
Fine sand	%	-	-	-	-	-	-
Fines	%	-	-	-	-	-	-
Gravel	%	-	-	-	-	-	-
Medium sand	%	-	-	-	-	-	-
Sand	%	-	-	-	-	-	-
Sieve, #4	% passed	-	-	-	-	-	-
Sieve, #10	% passed	-	-	-	-	-	-
Sieve, #20	% passed	-	-	-	-	-	-
Sieve, #40	% passed	-	-	-	-	-	-
Sieve, #60	% passed	-	-	-	-	-	-
Sieve, #80	% passed	-	-	-	-	-	-
Sieve, #100	% passed	-	-	-	-	-	-
Sieve, #200	% passed	-	-	-	-	-	-

Table 11

Summary of Analytical Results
Soil/Fill Samples - EU14
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-169-AS**	**SS-170-AS**	**TT-8**	**TT-8**	**TT-8**	**TT-9**
Sample ID:		**SS-38443-103018-JC-169**	**SS-38443-102918-JC-170**	**S-38443-100608-KMV-050**	**S-38443-100608-KMV-050-D**	**S-38443-100608-KMV-051**	**S-38443-100308-KMV-047**
Sample Date:		**10/30/2018**	**10/29/2018**	**10/6/2008**	**10/6/2008**	**10/6/2008**	**10/3/2008**
Sample Depth:		**0-0.5 ft BGS**	**0-0.5 ft BGS**	**4 ft BGS**	**4 ft BGS**	**15 ft BGS**	**7 ft BGS**
					Duplicate		
Parameters	**Units**						
Sieve, 0.375 inch	% passed	-	-	-	-	-	-
Sieve, 0.75 inch	% passed	-	-	-	-	-	-
Sieve, 1 inch	% passed	-	-	-	-	-	-
Sieve, 1.5 inch	% passed	-	-	-	-	-	-
Sieve, 2 inch	% passed	-	-	-	-	-	-
Sieve, 3 inch	% passed	-	-	-	-	-	-
General Chemistry							
Cyanide (total)	mg/kg	-	-	0.27 J	0.57 U	0.52 U	0.64 U
Fraction organic carbon (FOC)	%	-	-	-	-	-	-
Total solids	%	-	-	85.9	87.9	96.4	78.1

Notes
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 11

Summary of Analytical Results
Soil/Fill Samples - EU14
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-9**	**TT-9**
Sample ID:		**S-38443-100308-KMV-048**	**S-38443-100308-KMV-049**
Sample Date:		**10/3/2008**	**10/3/2008**
Sample Depth:		**17 ft BGS**	**22 ft BGS**
Parameters	**Units**		
Volatiles			
1,1,1-Trichloroethane	ug/kg	680 U	2600 U
1,1,2,2-Tetrachloroethane	ug/kg	680 U	2600 U
1,1,2-Trichloroethane	ug/kg	680 U	2600 U
1,1-Dichloroethane	ug/kg	46 J	2600 U
1,1-Dichloroethene	ug/kg	680 U	2600 U
1,2,4-Trichlorobenzene	ug/kg	680 U	2600 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	1400 U	5300 U
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	680 U	2600 U
1,2-Dichlorobenzene	ug/kg	680 U	2600 U
1,2-Dichloroethane	ug/kg	680 U	2600 U
1,2-Dichloropropane	ug/kg	680 U	2600 U
1,3-Dichlorobenzene	ug/kg	680 U	2600 U
1,4-Dichlorobenzene	ug/kg	680 U	2600 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	200 J	11000 U
2-Hexanone	ug/kg	2700 U	11000 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	860 J	11000 U
Acetone	ug/kg	2700 U	11000 U
Benzene	ug/kg	130 J	2600 U
Bromodichloromethane	ug/kg	680 U	2600 U
Bromoform	ug/kg	680 U	2600 U
Bromomethane (Methyl bromide)	ug/kg	680 U	2600 U
Carbon disulfide	ug/kg	110 J	2600 U
Carbon tetrachloride	ug/kg	680 U	2600 U
Chlorobenzene	ug/kg	2000	720 J
Chloroethane	ug/kg	680 U	2600 U
Chloroform (Trichloromethane)	ug/kg	680 U	2600 U
Chloromethane (Methyl chloride)	ug/kg	680 U	2600 U
cis-1,2-Dichloroethene	ug/kg	590 J	330 J
cis-1,3-Dichloropropene	ug/kg	680 U	2600 U
Cyclohexane	ug/kg	160 J	5300 U
Dibromochloromethane	ug/kg	680 U	2600 U
Dichlorodifluoromethane (CFC-12)	ug/kg	680 U	2600 U
Ethylbenzene	ug/kg	7000	66000
Isopropyl benzene	ug/kg	2500	2800
Methyl acetate	ug/kg	1300 J	5300 U
Methyl cyclohexane	ug/kg	1100 J	530 J
Methyl tert butyl ether (MTBE)	ug/kg	2700 U	11000 U
Methylene chloride	ug/kg	680 U	2600 U
Styrene	ug/kg	680 U	2600 U
Tetrachloroethene	ug/kg	680 U	2600 U
Toluene	ug/kg	990	450 J
trans-1,2-Dichloroethene	ug/kg	680 U	2600 U
trans-1,3-Dichloropropene	ug/kg	680 U	2600 U
Trichloroethene	ug/kg	670 J	420 J
Trichlorofluoromethane (CFC-11)	ug/kg	680 U	2600 U

Table 11

Summary of Analytical Results
Soil/Fill Samples - EU14
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-9**	**TT-9**
Sample ID:		**S-38443-100308-KMV-048**	**S-38443-100308-KMV-049**
Sample Date:		**10/3/2008**	**10/3/2008**
Sample Depth:		**17 ft BGS**	**22 ft BGS**
Parameters	**Units**		
Trifluorotrichloroethane (CFC-113)	ug/kg	680 U	2600 U
Vinyl chloride	ug/kg	180 J	2600 U
Xylenes (total)	ug/kg	17000	140000
Semi-Volatiles			
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	190 U	2800 U
2,4,5-Trichlorophenol	ug/kg	290 U	4200 U
2,4,6-Trichlorophenol	ug/kg	290 U	4200 U
2,4-Dichlorophenol	ug/kg	290 U	4200 U
2,4-Dimethylphenol	ug/kg	290 U	4200 U
2,4-Dinitrophenol	ug/kg	630 U	9300 U
2,4-Dinitrotoluene	ug/kg	380 U	5600 U
2,6-Dinitrotoluene	ug/kg	380 U	5600 U
2-Chloronaphthalene	ug/kg	95 U	1400 U
2-Chlorophenol	ug/kg	95 U	1400 U
2-Methylnaphthalene	ug/kg	13 U	5400
2-Methylphenol	ug/kg	380 U	5600 U
2-Nitroaniline	ug/kg	380 U	5600 U
2-Nitrophenol	ug/kg	95 U	1400 U
3&4-Methylphenol	ug/kg	-	-
3,3'-Dichlorobenzidine	ug/kg	190 U	2800 U
3-Nitroaniline	ug/kg	380 U	5600 U
4,6-Dinitro-2-methylphenol	ug/kg	290 U	4200 U
4-Bromophenyl phenyl ether	ug/kg	95 U	1400 U
4-Chloro-3-methylphenol	ug/kg	290 U	4200 U
4-Chloroaniline	ug/kg	290 U	4200 U
4-Chlorophenyl phenyl ether	ug/kg	95 U	1400 U
4-Methylphenol	ug/kg	380 U	5600 U
4-Nitroaniline	ug/kg	380 U	5600 U
4-Nitrophenol	ug/kg	630 U	9300 U
Acenaphthene	ug/kg	13 U	190 U
Acenaphthylene	ug/kg	13 U	190 U
Acetophenone	ug/kg	190 U	2800 U
Anthracene	ug/kg	13 U	190 U
Atrazine	ug/kg	380 U	5600 U
Benzaldehyde	ug/kg	190 U	2800 U
Benzo(a)anthracene	ug/kg	13 U	190 U
Benzo(a)pyrene	ug/kg	13 U	190 U
Benzo(b)fluoranthene	ug/kg	13 U	190 U
Benzo(g,h,i)perylene	ug/kg	13 U	190 U
Benzo(k)fluoranthene	ug/kg	13 U	190 U
Biphenyl (1,1-Biphenyl)	ug/kg	95 U	1400 U
bis(2-Chloroethoxy)methane	ug/kg	190 U	2800 U
bis(2-Chloroethyl)ether	ug/kg	190 U	2800 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	74 J	3000
Butyl benzylphthalate (BBP)	ug/kg	200	1400 U

Table 11

Summary of Analytical Results
Soil/Fill Samples - EU14
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-9**	**TT-9**
Sample ID:		**S-38443-100308-KMV-048**	**S-38443-100308-KMV-049**
Sample Date:		**10/3/2008**	**10/3/2008**
Sample Depth:		**17 ft BGS**	**22 ft BGS**
Parameters	**Units**		
Caprolactam	ug/kg	630 U	9300 U
Carbazole	ug/kg	95 U	1400 U
Chrysene	ug/kg	13 U	190 U
Dibenz(a,h)anthracene	ug/kg	13 U	190 U
Dibenzofuran	ug/kg	95 U	1400 U
Diethyl phthalate	ug/kg	95 U	1400 U
Dimethyl phthalate	ug/kg	95 U	1400 U
Di-n-butylphthalate (DBP)	ug/kg	45 J	2600
Di-n-octyl phthalate (DnOP)	ug/kg	95 U	1400 U
Fluoranthene	ug/kg	13 U	370
Fluorene	ug/kg	13 U	190 U
Hexachlorobenzene	ug/kg	13 U	190 U
Hexachlorobutadiene	ug/kg	95 U	1400 U
Hexachlorocyclopentadiene	ug/kg	630 U	9300 U
Hexachloroethane	ug/kg	95 U	1400 U
Indeno(1,2,3-cd)pyrene	ug/kg	13 U	190 U
Isophorone	ug/kg	95 U	1400 U
Naphthalene	ug/kg	28	3900
Nitrobenzene	ug/kg	190 U	2800 U
N-Nitrosodi-n-propylamine	ug/kg	95 U	1400 U
N-Nitrosodiphenylamine	ug/kg	95 U	1400 U
Pentachlorophenol	ug/kg	290 U	4200 U
Phenanthrene	ug/kg	13 U	430
Phenol	ug/kg	95 U	1400 U
Pyrene	ug/kg	13 U	330
Metals			
Aluminum	mg/kg	7220	5530
Antimony	mg/kg	1.6 J	3.4 J
Arsenic	mg/kg	18.5	16.4
Barium	mg/kg	162	829
Beryllium	mg/kg	2.5	1.6
Cadmium	mg/kg	0.36 J	2.2
Calcium	mg/kg	21200 J	39900 J
Chromium	mg/kg	25.1	35.8
Chromium III (trivalent)	mg/kg	-	-
Chromium VI (hexavalent)	mg/kg	-	-
Cobalt	mg/kg	12.7	8.9
Copper	mg/kg	56.4	597
Iron	mg/kg	29300	23700
Lead	mg/kg	15.0 J	557
Lead - coarse fraction	mg/kg	-	-
Lead - fine fraction	mg/kg	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-
Magnesium	mg/kg	3370 J	13400 J
Manganese	mg/kg	88.1	217

Table 11

Summary of Analytical Results
Soil/Fill Samples - EU14
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-9**	**TT-9**
Sample ID:		**S-38443-100308-KMV-048**	**S-38443-100308-KMV-049**
Sample Date:		**10/3/2008**	**10/3/2008**
Sample Depth:		**17 ft BGS**	**22 ft BGS**
Parameters	**Units**		
Mercury	mg/kg	0.12 J	0.25
Nickel	mg/kg	33.3	27.6
Potassium	mg/kg	937 J	686 J
Selenium	mg/kg	1.6 J	7.0 J
Silver	mg/kg	1.9 U	0.46 J
Sodium	mg/kg	272 J	169 J
Thallium	mg/kg	0.98	0.57
Vanadium	mg/kg	39.2	30.5
Zinc	mg/kg	40.6	264
PCBs			
Aroclor-1016 (PCB-1016)	ug/kg	63 U	230 U
Aroclor-1221 (PCB-1221)	ug/kg	63 U	230 U
Aroclor-1232 (PCB-1232)	ug/kg	63 U	230 U
Aroclor-1242 (PCB-1242)	ug/kg	63 U	490
Aroclor-1248 (PCB-1248)	ug/kg	63 U	230 U
Aroclor-1254 (PCB-1254)	ug/kg	200	1000
Aroclor-1260 (PCB-1260)	ug/kg	63 U	230 U
Pesticides			
4,4'-DDD	ug/kg	65 U	240 U
4,4'-DDE	ug/kg	65 U	77 J
4,4'-DDT	ug/kg	65 UJ	240 UJ
Aldrin	ug/kg	65 U	240 U
alpha-BHC	ug/kg	65 U	240 U
alpha-Chlordane	ug/kg	65 U	240 U
beta-BHC	ug/kg	65 U	240 U
delta-BHC	ug/kg	65 U	240 U
Dieldrin	ug/kg	65 U	240 U
Endosulfan I	ug/kg	65 U	240 U
Endosulfan II	ug/kg	65 U	240 U
Endosulfan sulfate	ug/kg	65 U	240 U
Endrin	ug/kg	65 U	240 U
Endrin aldehyde	ug/kg	65 U	240 U
Endrin ketone	ug/kg	65 U	96 J
gamma-BHC (lindane)	ug/kg	65 U	240 U
gamma-Chlordane	ug/kg	27 J	240 U
Heptachlor	ug/kg	65 U	240 U
Heptachlor epoxide	ug/kg	65 U	240 U
Methoxychlor	ug/kg	130 UJ	460 UJ
Toxaphene	ug/kg	2600 U	9400 U
Herbicides			
2,4,5-T	ug/kg	-	-
2,4,5-TP (Silvex)	ug/kg	38 U	28 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	150 UJ	110 UJ

Table 11

Summary of Analytical Results
Soil/Fill Samples - EU14
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-9**	**TT-9**
Sample ID:		**S-38443-100308-KMV-048**	**S-38443-100308-KMV-049**
Sample Date:		**10/3/2008**	**10/3/2008**
Sample Depth:		**17 ft BGS**	**22 ft BGS**
Parameters	**Units**		
Dioxin/Furans			
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-
Asbestos			
Asbestos	%	ND	-
Geotechnical			
Coarse sand	%	-	-
Fine sand	%	-	-
Fines	%	-	-
Gravel	%	-	-
Medium sand	%	-	-
Sand	%	-	-
Sieve, #4	% passed	-	-
Sieve, #10	% passed	-	-
Sieve, #20	% passed	-	-
Sieve, #40	% passed	-	-
Sieve, #60	% passed	-	-
Sieve, #80	% passed	-	-
Sieve, #100	% passed	-	-
Sieve, #200	% passed	-	-

Table 11

Summary of Analytical Results
Soil/Fill Samples - EU14
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-9**	**TT-9**
Sample ID:		**S-38443-100308-KMV-048**	**S-38443-100308-KMV-049**
Sample Date:		**10/3/2008**	**10/3/2008**
Sample Depth:		**17 ft BGS**	**22 ft BGS**
Parameters	**Units**		
Sieve, 0.375 inch	% passed	-	-
Sieve, 0.75 inch	% passed	-	-
Sieve, 1 inch	% passed	-	-
Sieve, 1.5 inch	% passed	-	-
Sieve, 2 inch	% passed	-	-
Sieve, 3 inch	% passed	-	-
General Chemistry			
Cyanide (total)	mg/kg	1.4 J	1.9 J
Fraction organic carbon (FOC)	%	-	-
Total solids	%	52.4	71.1

Notes
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 12

Summary of Analytical Results
Soil/ Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH51-13**	**BH51-13**	**BH52-13**	**BH52-13**	**BH53-13**	**BH53-13**	**BH54-13**
Sample ID:		**S-38443-062113-JT-027**	**S-38443-062113-JT-028**	**S-38443-061913-JC-014**	**S-38443-061913-JC-015**	**S-38443-061813-JT-001**	**S-38443-061813-JT-002**	**S-38443-061813-JT-003**
Sample Date:		**6/21/2013**	**6/21/2013**	**6/19/2013**	**6/19/2013**	**6/18/2013**	**6/18/2013**	**6/18/2013**
Sample Depth:		**0-2 ft BGS**	**19.3-21.3 ft BGS**	**21.8-23.8 ft BGS**	**21.8-23.8 ft BGS**	**0-2 ft BGS**	**19-21 ft BGS**	**4-6 ft BGS**
					Duplicate			
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/kg	350 U	5.5 U	R	4.5 U	4.5 U	4.3 U	5.6 UJ
1,1,2,2-Tetrachloroethane	ug/kg	350 U	5.5 U	R	4.5 U	4.5 U	4.3 U	5.6 UJ
1,1,2-Trichloroethane	ug/kg	350 U	5.5 U	R	4.5 U	4.5 U	4.3 U	5.6 UJ
1,1-Dichloroethane	ug/kg	350 U	5.5 U	R	4.5 U	4.5 U	4.3 U	5.6 UJ
1,1-Dichloroethene	ug/kg	350 U	5.5 U	R	4.5 U	4.5 U	4.3 U	5.6 UJ
1,2,4-Trichlorobenzene	ug/kg	350 U	5.5 U	R	4.5 U	4.5 U	4.3 U	5.6 UJ
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	700 U	11 U	R	9.1 U	9.0 U	8.6 U	11 UJ
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	350 U	5.5 U	R	4.5 U	4.5 U	4.3 U	5.6 UJ
1,2-Dichlorobenzene	ug/kg	350 U	5.5 U	R	4.5 U	4.5 U	4.3 U	5.6 UJ
1,2-Dichloroethane	ug/kg	350 U	5.5 U	R	4.5 U	4.5 U	4.3 U	5.6 UJ
1,2-Dichloropropane	ug/kg	350 U	5.5 U	R	4.5 U	4.5 U	4.3 U	5.6 UJ
1,3-Dichlorobenzene	ug/kg	350 U	5.5 U	R	4.5 U	4.5 U	4.3 U	5.6 UJ
1,4-Dichlorobenzene	ug/kg	350 U	5.5 U	R	4.5 U	4.5 U	4.3 U	5.6 UJ
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	1400 U	22 U	R	18 U	18 U	17 U	22 UJ
2-Hexanone	ug/kg	1400 U	22 U	R	18 U	18 U	17 U	22 UJ
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	1400 U	22 U	R	18 U	18 U	17 U	22 UJ
Acetone	ug/kg	1400 U	22 U	25 UJ	18 U	18 U	17 U	22 UJ
Benzene	ug/kg	350 U	5.5 U	R	4.5 U	4.5 U	4.3 U	5.6 UJ
Bromodichloromethane	ug/kg	350 U	5.5 U	R	4.5 U	4.5 U	4.3 U	5.6 UJ
Bromoform	ug/kg	350 U	5.5 U	R	4.5 U	4.5 U	4.3 U	5.6 UJ
Bromomethane (Methyl bromide)	ug/kg	350 U	5.5 U	R	4.5 U	4.5 U	4.3 U	5.6 UJ
Carbon disulfide	ug/kg	350 U	5.5 U	R	4.5 U	4.5 U	4.3 U	5.6 UJ
Carbon tetrachloride	ug/kg	350 U	5.5 U	R	4.5 U	4.5 U	4.3 U	5.6 UJ
Chlorobenzene	ug/kg	350 U	5.5 U	R	4.5 U	4.5 U	4.3 U	5.6 UJ
Chloroethane	ug/kg	350 U	5.5 U	R	4.5 U	4.5 U	4.3 U	5.6 UJ
Chloroform (Trichloromethane)	ug/kg	350 U	5.5 U	R	4.5 U	4.5 U	4.3 U	5.6 UJ
Chloromethane (Methyl chloride)	ug/kg	350 U	5.5 U	R	4.5 U	4.5 U	4.3 U	5.6 UJ
cis-1,2-Dichloroethene	ug/kg	350 U	5.5 U	R	4.5 U	4.5 U	4.3 U	5.6 UJ
cis-1,3-Dichloropropene	ug/kg	350 U	5.5 U	R	4.5 U	4.5 U	4.3 U	5.6 UJ
Cyclohexane	ug/kg	700 U	11 U	R	9.1 U	9.0 U	8.6 U	11 UJ
Dibromochloromethane	ug/kg	350 U	5.5 U	R	4.5 U	4.5 U	4.3 U	5.6 UJ
Dichlorodifluoromethane (CFC-12)	ug/kg	350 U	5.5 U	R	4.5 U	4.5 U	4.3 U	5.6 UJ
Ethylbenzene	ug/kg	350 U	5.5 U	R	4.5 U	4.5 U	4.3 U	5.6 UJ
Isopropyl benzene	ug/kg	350 U	5.5 U	R	4.5 U	4.5 U	4.3 U	5.6 UJ
Methyl acetate	ug/kg	700 U	11 U	R	9.1 U	9.0 U	8.6 U	11 UJ
Methyl cyclohexane	ug/kg	75 J	0.39 J	R	9.1 U	9.0 U	8.6 U	11 UJ
Methyl tert butyl ether (MTBE)	ug/kg	350 U	5.5 U	R	4.5 U	4.5 U	4.3 U	5.6 UJ
Methylene chloride	ug/kg	350 U	5.5 UJ	20 UJ	7.9 U	6.4 U	6.5 U	9.0 UJ
Styrene	ug/kg	350 U	5.5 U	R	4.5 U	4.5 U	4.3 U	5.6 UJ
Tetrachloroethene	ug/kg	20 J	5.5 U	R	4.5 U	4.5 U	4.3 U	5.6 UJ
Toluene	ug/kg	40 J	0.97 J	R	0.42 J	4.5 U	4.3 U	5.6 UJ
trans-1,2-Dichloroethene	ug/kg	350 U	5.5 U	R	4.5 U	4.5 U	4.3 U	5.6 UJ
trans-1,3-Dichloropropene	ug/kg	350 U	5.5 U	R	4.5 U	4.5 U	4.3 U	5.6 UJ
Trichloroethene	ug/kg	4300	1.6 J	R	0.52 J	1.5 J	10	8.4 J
Trichlorofluoromethane (CFC-11)	ug/kg	350 U	5.5 U	R	4.5 U	4.5 U	4.3 U	5.6 UJ

Table 12

Summary of Analytical Results
Soil/ Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH51-13**	**BH51-13**	**BH52-13**	**BH52-13**	**BH53-13**	**BH53-13**	**BH54-13**
Sample ID:		**S-38443-062113-JT-027**	**S-38443-062113-JT-028**	**S-38443-061913-JC-014**	**S-38443-061913-JC-015**	**S-38443-061813-JT-001**	**S-38443-061813-JT-002**	**S-38443-061813-JT-003**
Sample Date:		**6/21/2013**	**6/21/2013**	**6/19/2013**	**6/19/2013**	**6/18/2013**	**6/18/2013**	**6/18/2013**
Sample Depth:		**0-2 ft BGS**	**19.3-21.3 ft BGS**	**21.8-23.8 ft BGS**	**21.8-23.8 ft BGS**	**0-2 ft BGS**	**19-21 ft BGS**	**4-6 ft BGS**
					Duplicate			
Parameters	**Units**							
Trifluorotrichloroethane (CFC-113)	ug/kg	350 U	5.5 U	R	4.5 U	4.5 U	4.3 U	5.6 UJ
Vinyl chloride	ug/kg	350 U	5.5 U	R	4.5 U	4.5 U	4.3 U	5.6 UJ
Xylenes (total)	ug/kg	140 J	11 U	R	9.1 U	9.0 U	8.6 U	11 UJ
Semi-Volatiles								
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	ug/kg	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	ug/kg	-	-	-	-	-	-	-
2,4-Dichlorophenol	ug/kg	-	-	-	-	-	-	-
2,4-Dimethylphenol	ug/kg	-	-	-	-	-	-	-
2,4-Dinitrophenol	ug/kg	-	-	-	-	-	-	-
2,4-Dinitrotoluene	ug/kg	-	-	-	-	-	-	-
2,6-Dinitrotoluene	ug/kg	-	-	-	-	-	-	-
2-Chloronaphthalene	ug/kg	-	-	-	-	-	-	-
2-Chlorophenol	ug/kg	-	-	-	-	-	-	-
2-Methylnaphthalene	ug/kg	-	-	-	-	-	-	-
2-Methylphenol	ug/kg	-	-	-	-	-	-	-
2-Nitroaniline	ug/kg	-	-	-	-	-	-	-
2-Nitrophenol	ug/kg	-	-	-	-	-	-	-
3&4-Methylphenol	ug/kg	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/kg	-	-	-	-	-	-	-
3-Nitroaniline	ug/kg	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	ug/kg	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	ug/kg	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	ug/kg	-	-	-	-	-	-	-
4-Chloroaniline	ug/kg	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	ug/kg	-	-	-	-	-	-	-
4-Methylphenol	ug/kg	-	-	-	-	-	-	-
4-Nitroaniline	ug/kg	-	-	-	-	-	-	-
4-Nitrophenol	ug/kg	-	-	-	-	-	-	-
Acenaphthene	ug/kg	-	-	-	-	-	-	-
Acenaphthylene	ug/kg	-	-	-	-	-	-	-
Acetophenone	ug/kg	-	-	-	-	-	-	-
Anthracene	ug/kg	-	-	-	-	-	-	-
Atrazine	ug/kg	-	-	-	-	-	-	-
Benzaldehyde	ug/kg	-	-	-	-	-	-	-
Benzo(a)anthracene	ug/kg	-	-	-	-	-	-	-
Benzo(a)pyrene	ug/kg	-	-	-	-	-	-	-
Benzo(b)fluoranthene	ug/kg	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	ug/kg	-	-	-	-	-	-	-
Benzo(k)fluoranthene	ug/kg	-	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	ug/kg	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	ug/kg	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	ug/kg	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	ug/kg	-	-	-	-	-	-	-

Table 12

Summary of Analytical Results
Soil/ Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH51-13**	**BH51-13**	**BH52-13**	**BH52-13**	**BH53-13**	**BH53-13**	**BH54-13**
Sample ID:		**S-38443-062113-JT-027**	**S-38443-062113-JT-028**	**S-38443-061913-JC-014**	**S-38443-061913-JC-015**	**S-38443-061813-JT-001**	**S-38443-061813-JT-002**	**S-38443-061813-JT-003**
Sample Date:		**6/21/2013**	**6/21/2013**	**6/19/2013**	**6/19/2013**	**6/18/2013**	**6/18/2013**	**6/18/2013**
Sample Depth:		**0-2 ft BGS**	**19.3-21.3 ft BGS**	**21.8-23.8 ft BGS**	**21.8-23.8 ft BGS**	**0-2 ft BGS**	**19-21 ft BGS**	**4-6 ft BGS**
					Duplicate			
Parameters	**Units**							
Caprolactam	ug/kg	-	-	-	-	-	-	-
Carbazole	ug/kg	-	-	-	-	-	-	-
Chrysene	ug/kg	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	ug/kg	-	-	-	-	-	-	-
Dibenzofuran	ug/kg	-	-	-	-	-	-	-
Diethyl phthalate	ug/kg	-	-	-	-	-	-	-
Dimethyl phthalate	ug/kg	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	ug/kg	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	ug/kg	-	-	-	-	-	-	-
Fluoranthene	ug/kg	-	-	-	-	-	-	-
Fluorene	ug/kg	-	-	-	-	-	-	-
Hexachlorobenzene	ug/kg	-	-	-	-	-	-	-
Hexachlorobutadiene	ug/kg	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	ug/kg	-	-	-	-	-	-	-
Hexachloroethane	ug/kg	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/kg	-	-	-	-	-	-	-
Isophorone	ug/kg	-	-	-	-	-	-	-
Naphthalene	ug/kg	-	-	-	-	-	-	-
Nitrobenzene	ug/kg	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	ug/kg	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	ug/kg	-	-	-	-	-	-	-
Pentachlorophenol	ug/kg	-	-	-	-	-	-	-
Phenanthrene	ug/kg	-	-	-	-	-	-	-
Phenol	ug/kg	-	-	-	-	-	-	-
Pyrene	ug/kg	-	-	-	-	-	-	-
Metals								
Aluminum	mg/kg	-	-	-	-	-	-	-
Antimony	mg/kg	-	-	-	-	-	-	-
Arsenic	mg/kg	-	-	-	-	-	-	-
Barium	mg/kg	-	-	-	-	-	-	-
Beryllium	mg/kg	-	-	-	-	-	-	-
Cadmium	mg/kg	-	-	-	-	-	-	-
Calcium	mg/kg	-	-	-	-	-	-	-
Chromium	mg/kg	-	-	-	-	-	-	-
Chromium III (trivalent)	mg/kg	-	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-	-
Cobalt	mg/kg	-	-	-	-	-	-	-
Copper	mg/kg	-	-	-	-	-	-	-
Iron	mg/kg	-	-	-	-	-	-	-
Lead	mg/kg	-	-	-	-	-	-	-
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-
Magnesium	mg/kg	-	-	-	-	-	-	-
Manganese	mg/kg	-	-	-	-	-	-	-

Table 12

Summary of Analytical Results
Soil/ Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH51-13**	**BH51-13**	**BH52-13**	**BH52-13**	**BH53-13**	**BH53-13**	**BH54-13**
Sample ID:		**S-38443-062113-JT-027**	**S-38443-062113-JT-028**	**S-38443-061913-JC-014**	**S-38443-061913-JC-015**	**S-38443-061813-JT-001**	**S-38443-061813-JT-002**	**S-38443-061813-JT-003**
Sample Date:		**6/21/2013**	**6/21/2013**	**6/19/2013**	**6/19/2013**	**6/18/2013**	**6/18/2013**	**6/18/2013**
Sample Depth:		**0-2 ft BGS**	**19.3-21.3 ft BGS**	**21.8-23.8 ft BGS**	**21.8-23.8 ft BGS**	**0-2 ft BGS**	**19-21 ft BGS**	**4-6 ft BGS**
					Duplicate			
Parameters	**Units**							
Mercury	mg/kg	-	-	-	-	-	-	-
Nickel	mg/kg	-	-	-	-	-	-	-
Potassium	mg/kg	-	-	-	-	-	-	-
Selenium	mg/kg	-	-	-	-	-	-	-
Silver	mg/kg	-	-	-	-	-	-	-
Sodium	mg/kg	-	-	-	-	-	-	-
Thallium	mg/kg	-	-	-	-	-	-	-
Vanadium	mg/kg	-	-	-	-	-	-	-
Zinc	mg/kg	-	-	-	-	-	-	-
PCBs								
Aroclor-1016 (PCB-1016)	ug/kg	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	ug/kg	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	ug/kg	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	ug/kg	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/kg	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/kg	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/kg	-	-	-	-	-	-	-
Pesticides								
4,4'-DDD	ug/kg	-	-	-	-	-	-	-
4,4'-DDE	ug/kg	-	-	-	-	-	-	-
4,4'-DDT	ug/kg	-	-	-	-	-	-	-
Aldrin	ug/kg	-	-	-	-	-	-	-
alpha-BHC	ug/kg	-	-	-	-	-	-	-
alpha-Chlordane	ug/kg	-	-	-	-	-	-	-
beta-BHC	ug/kg	-	-	-	-	-	-	-
delta-BHC	ug/kg	-	-	-	-	-	-	-
Dieldrin	ug/kg	-	-	-	-	-	-	-
Endosulfan I	ug/kg	-	-	-	-	-	-	-
Endosulfan II	ug/kg	-	-	-	-	-	-	-
Endosulfan sulfate	ug/kg	-	-	-	-	-	-	-
Endrin	ug/kg	-	-	-	-	-	-	-
Endrin aldehyde	ug/kg	-	-	-	-	-	-	-
Endrin ketone	ug/kg	-	-	-	-	-	-	-
gamma-BHC (lindane)	ug/kg	-	-	-	-	-	-	-
gamma-Chlordane	ug/kg	-	-	-	-	-	-	-
Heptachlor	ug/kg	-	-	-	-	-	-	-
Heptachlor epoxide	ug/kg	-	-	-	-	-	-	-
Methoxychlor	ug/kg	-	-	-	-	-	-	-
Toxaphene	ug/kg	-	-	-	-	-	-	-
Herbicides								
2,4,5-T	ug/kg	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/kg	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	-	-	-	-	-	-	-

Table 12

Summary of Analytical Results
Soil/ Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH51-13**	**BH51-13**	**BH52-13**	**BH52-13**	**BH53-13**	**BH53-13**	**BH54-13**
Sample ID:		**S-38443-062113-JT-027**	**S-38443-062113-JT-028**	**S-38443-061913-JC-014**	**S-38443-061913-JC-015**	**S-38443-061813-JT-001**	**S-38443-061813-JT-002**	**S-38443-061813-JT-003**
Sample Date:		**6/21/2013**	**6/21/2013**	**6/19/2013**	**6/19/2013**	**6/18/2013**	**6/18/2013**	**6/18/2013**
Sample Depth:		**0-2 ft BGS**	**19.3-21.3 ft BGS**	**21.8-23.8 ft BGS**	**21.8-23.8 ft BGS**	**0-2 ft BGS**	**19-21 ft BGS**	**4-6 ft BGS**
					Duplicate			
Parameters	**Units**							
Petroleum Products								
Total Petroleum Hydrocarbons - Extractable (DRO)	ug/kg	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons - Purgeable (GRO)	ug/kg	-	-	-	-	-	-	-
Dioxin/Furans								
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Asbestos								
Asbestos	%	-	-	-	-	-	-	-
Chrysotile asbestos	%	-	-	-	-	-	-	-
Geotechnical								
Coarse sand	%	-	-	-	-	-	-	-
Fine sand	%	-	-	-	-	-	-	-
Fines	%	-	-	-	-	-	-	-
Gravel	%	-	-	-	-	-	-	-
Medium sand	%	-	-	-	-	-	-	-
Sand	%	-	-	-	-	-	-	-
Sieve, #4	% passed	-	-	-	-	-	-	-
Sieve, #10	% passed	-	-	-	-	-	-	-
Sieve, #20	% passed	-	-	-	-	-	-	-

Table 12

Summary of Analytical Results
Soil/ Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH51-13**	**BH51-13**	**BH52-13**	**BH52-13**	**BH53-13**	**BH53-13**	**BH54-13**
Sample ID:		**S-38443-062113-JT-027**	**S-38443-062113-JT-028**	**S-38443-061913-JC-014**	**S-38443-061913-JC-015**	**S-38443-061813-JT-001**	**S-38443-061813-JT-002**	**S-38443-061813-JT-003**
Sample Date:		**6/21/2013**	**6/21/2013**	**6/19/2013**	**6/19/2013**	**6/18/2013**	**6/18/2013**	**6/18/2013**
Sample Depth:		**0-2 ft BGS**	**19.3-21.3 ft BGS**	**21.8-23.8 ft BGS**	**21.8-23.8 ft BGS**	**0-2 ft BGS**	**19-21 ft BGS**	**4-6 ft BGS**
					Duplicate			
Parameters	**Units**							
Sieve, #40	% passed	-	-	-	-	-	-	-
Sieve, #60	% passed	-	-	-	-	-	-	-
Sieve, #80	% passed	-	-	-	-	-	-	-
Sieve, #100	% passed	-	-	-	-	-	-	-
Sieve, #200	% passed	-	-	-	-	-	-	-
Sieve, 0.375 inch	% passed	-	-	-	-	-	-	-
Sieve, 0.75 inch	% passed	-	-	-	-	-	-	-
Sieve, 1 inch	% passed	-	-	-	-	-	-	-
Sieve, 1.5 inch	% passed	-	-	-	-	-	-	-
Sieve, 2 inch	% passed	-	-	-	-	-	-	-
Sieve, 3 inch	% passed	-	-	-	-	-	-	-
General Chemistry								
Cyanide (total)	mg/kg	-	-	-	-	-	-	-
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-

Notes
< - Less than reported value.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 12

Summary of Analytical Results
Soil/ Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH54-13**	**BH55-13**	**BH55-13**	**BH56-13**	**BH57-13**	**BH58-13**	**BH58-13**
Sample ID:		**S-38443-061813-JT-004**	**S-38443-061813-JC-011**	**S-38443-061813-JC-012**	**S-38443-061813-JC-013**	**S-38443-061813-JT-005**	**S-38443-061913-JT-009**	**S-38443-061913-JT-010**
Sample Date:		**6/18/2013**	**6/18/2013**	**6/18/2013**	**6/18/2013**	**6/18/2013**	**6/19/2013**	**6/19/2013**
Sample Depth:		**18.5-20.5 ft BGS**	**2-4 ft BGS**	**22.5-24.5 ft BGS**	**21-23 ft BGS**	**21-23 ft BGS**	**21.5-23.5 ft BGS**	**21.5-23.5 ft BGS**
								Duplicate
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/kg	5.4 U	R	4.8 U	4.5 U	5.2 U	5.5 U	5.3 U
1,1,2,2-Tetrachloroethane	ug/kg	5.4 U	R	4.8 U	4.5 U	5.2 U	5.5 U	5.3 U
1,1,2-Trichloroethane	ug/kg	5.4 U	R	4.8 U	4.5 U	5.2 U	5.5 U	5.3 U
1,1-Dichloroethane	ug/kg	5.4 U	R	4.8 U	4.5 U	5.2 U	5.5 U	5.3 U
1,1-Dichloroethene	ug/kg	5.4 U	R	4.8 U	4.5 U	5.2 U	5.5 U	5.3 U
1,2,4-Trichlorobenzene	ug/kg	5.4 U	R	4.8 U	4.5 U	5.2 U	5.5 U	5.3 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	11 U	R	9.7 U	9.1 U	10 U	11 U	11 U
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	5.4 U	R	4.8 U	4.5 U	5.2 U	5.5 U	5.3 U
1,2-Dichlorobenzene	ug/kg	5.4 U	R	4.8 U	4.5 U	5.2 U	5.5 U	5.3 U
1,2-Dichloroethane	ug/kg	5.4 U	R	4.8 U	4.5 U	5.2 U	5.5 U	5.3 U
1,2-Dichloropropane	ug/kg	5.4 U	R	4.8 U	4.5 U	5.2 U	5.5 U	5.3 U
1,3-Dichlorobenzene	ug/kg	5.4 U	R	4.8 U	4.5 U	5.2 U	5.5 U	5.3 U
1,4-Dichlorobenzene	ug/kg	5.4 U	R	4.8 U	4.5 U	5.2 U	5.5 U	5.3 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	21 U	R	19 U	18 U	21 U	22 U	21 U
2-Hexanone	ug/kg	21 U	R	19 U	18 U	21 U	22 U	21 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	21 U	R	19 U	18 U	21 U	22 U	21 U
Acetone	ug/kg	21 U	130000 UJ	19 U	18 U	21 U	22 U	21 U
Benzene	ug/kg	5.4 U	R	4.8 U	4.5 U	5.2 U	5.5 U	5.3 U
Bromodichloromethane	ug/kg	5.4 U	R	4.8 U	4.5 U	5.2 U	5.5 U	5.3 U
Bromoform	ug/kg	5.4 U	R	4.8 U	4.5 U	5.2 U	5.5 U	5.3 U
Bromomethane (Methyl bromide)	ug/kg	5.4 U	R	4.8 U	4.5 U	5.2 U	5.5 U	5.3 U
Carbon disulfide	ug/kg	5.4 U	R	4.8 U	4.5 U	5.2 U	0.78 J	5.3 U
Carbon tetrachloride	ug/kg	5.4 U	R	4.8 U	4.5 U	5.2 U	5.5 U	5.3 U
Chlorobenzene	ug/kg	5.4 U	R	4.8 U	4.5 U	5.2 U	5.5 U	5.3 U
Chloroethane	ug/kg	5.4 U	R	4.8 U	4.5 U	5.2 U	5.5 U	5.3 U
Chloroform (Trichloromethane)	ug/kg	5.4 U	R	4.8 U	4.5 U	5.2 U	5.5 U	5.3 U
Chloromethane (Methyl chloride)	ug/kg	5.4 U	R	4.8 U	4.5 U	5.2 U	5.5 U	5.3 U
cis-1,2-Dichloroethene	ug/kg	5.4 U	R	4.8 U	4.5 U	5.2 U	5.5 U	5.3 U
cis-1,3-Dichloropropene	ug/kg	5.4 U	R	4.8 U	4.5 U	5.2 U	5.5 U	5.3 U
Cyclohexane	ug/kg	11 U	R	9.7 U	9.1 U	10 U	11 U	11 U
Dibromochloromethane	ug/kg	5.4 U	R	4.8 U	4.5 U	5.2 U	5.5 U	5.3 U
Dichlorodifluoromethane (CFC-12)	ug/kg	5.4 U	R	4.8 U	4.5 U	5.2 U	5.5 U	5.3 U
Ethylbenzene	ug/kg	5.4 U	260000 J	4.8 U	4.5 U	5.2 U	5.5 U	5.3 U
Isopropyl benzene	ug/kg	5.4 U	57000 J	4.8 U	4.5 U	5.2 U	5.5 U	5.3 U
Methyl acetate	ug/kg	11 U	R	9.7 U	9.1 U	10 U	11 U	11 U
Methyl cyclohexane	ug/kg	11 U	R	9.7 U	9.1 U	10 U	11 U	11 U
Methyl tert butyl ether (MTBE)	ug/kg	5.4 U	R	4.8 U	4.5 U	5.2 U	5.5 U	5.3 U
Methylene chloride	ug/kg	8.6 U	33000 UJ	9.6 U	6.9 U	9.3 U	11 U	8.9 U
Styrene	ug/kg	5.4 U	R	4.8 U	4.5 U	5.2 U	5.5 U	5.3 U
Tetrachloroethene	ug/kg	5.4 U	R	4.8 U	4.5 U	5.2 U	5.5 U	5.3 U
Toluene	ug/kg	5.4 U	95000 J	4.8 U	4.5 U	5.2 U	5.5 U	5.3 U
trans-1,2-Dichloroethene	ug/kg	5.4 U	R	4.8 U	4.5 U	5.2 U	5.5 U	5.3 U
trans-1,3-Dichloropropene	ug/kg	5.4 U	R	4.8 U	4.5 U	5.2 U	5.5 U	5.3 U
Trichloroethene	ug/kg	5.4 U	R	4.8 U	4.5 U	5.2 U	5.5 U	5.3 U
Trichlorofluoromethane (CFC-11)	ug/kg	5.4 U	R	4.8 U	4.5 U	5.2 U	5.5 U	5.3 U

Table 12

Summary of Analytical Results
Soil/ Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH54-13**	**BH55-13**	**BH55-13**	**BH56-13**	**BH57-13**	**BH58-13**	**BH58-13**
Sample ID:		**S-38443-061813-JT-004**	**S-38443-061813-JC-011**	**S-38443-061813-JC-012**	**S-38443-061813-JC-013**	**S-38443-061813-JT-005**	**S-38443-061913-JT-009**	**S-38443-061913-JT-010**
Sample Date:		**6/18/2013**	**6/18/2013**	**6/18/2013**	**6/18/2013**	**6/18/2013**	**6/19/2013**	**6/19/2013**
Sample Depth:		**18.5-20.5 ft BGS**	**2-4 ft BGS**	**22.5-24.5 ft BGS**	**21-23 ft BGS**	**21-23 ft BGS**	**21.5-23.5 ft BGS**	**21.5-23.5 ft BGS**
								Duplicate
Parameters	**Units**							
Trifluorotrichloroethane (CFC-113)	ug/kg	5.4 U	R	4.8 U	4.5 U	5.2 U	5.5 U	5.3 U
Vinyl chloride	ug/kg	5.4 U	R	4.8 U	4.5 U	5.2 U	5.5 U	5.3 U
Xylenes (total)	ug/kg	11 U	2000000 J	9.7 U	9.1 U	10 U	11 U	11 U
Semi-Volatiles								
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	ug/kg	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	ug/kg	-	-	-	-	-	-	-
2,4-Dichlorophenol	ug/kg	-	-	-	-	-	-	-
2,4-Dimethylphenol	ug/kg	-	-	-	-	-	-	-
2,4-Dinitrophenol	ug/kg	-	-	-	-	-	-	-
2,4-Dinitrotoluene	ug/kg	-	-	-	-	-	-	-
2,6-Dinitrotoluene	ug/kg	-	-	-	-	-	-	-
2-Chloronaphthalene	ug/kg	-	-	-	-	-	-	-
2-Chlorophenol	ug/kg	-	-	-	-	-	-	-
2-Methylnaphthalene	ug/kg	-	-	-	-	-	-	-
2-Methylphenol	ug/kg	-	-	-	-	-	-	-
2-Nitroaniline	ug/kg	-	-	-	-	-	-	-
2-Nitrophenol	ug/kg	-	-	-	-	-	-	-
3&4-Methylphenol	ug/kg	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/kg	-	-	-	-	-	-	-
3-Nitroaniline	ug/kg	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	ug/kg	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	ug/kg	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	ug/kg	-	-	-	-	-	-	-
4-Chloroaniline	ug/kg	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	ug/kg	-	-	-	-	-	-	-
4-Methylphenol	ug/kg	-	-	-	-	-	-	-
4-Nitroaniline	ug/kg	-	-	-	-	-	-	-
4-Nitrophenol	ug/kg	-	-	-	-	-	-	-
Acenaphthene	ug/kg	-	-	-	-	-	-	-
Acenaphthylene	ug/kg	-	-	-	-	-	-	-
Acetophenone	ug/kg	-	-	-	-	-	-	-
Anthracene	ug/kg	-	-	-	-	-	-	-
Atrazine	ug/kg	-	-	-	-	-	-	-
Benzaldehyde	ug/kg	-	-	-	-	-	-	-
Benzo(a)anthracene	ug/kg	-	-	-	-	-	-	-
Benzo(a)pyrene	ug/kg	-	-	-	-	-	-	-
Benzo(b)fluoranthene	ug/kg	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	ug/kg	-	-	-	-	-	-	-
Benzo(k)fluoranthene	ug/kg	-	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	ug/kg	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	ug/kg	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	ug/kg	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	ug/kg	-	-	-	-	-	-	-

Table 12

Summary of Analytical Results
Soil/ Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH54-13**	**BH55-13**	**BH55-13**	**BH56-13**	**BH57-13**	**BH58-13**	**BH58-13**
Sample ID:		**S-38443-061813-JT-004**	**S-38443-061813-JC-011**	**S-38443-061813-JC-012**	**S-38443-061813-JC-013**	**S-38443-061813-JT-005**	**S-38443-061913-JT-009**	**S-38443-061913-JT-010**
Sample Date:		**6/18/2013**	**6/18/2013**	**6/18/2013**	**6/18/2013**	**6/18/2013**	**6/19/2013**	**6/19/2013**
Sample Depth:		**18.5-20.5 ft BGS**	**2-4 ft BGS**	**22.5-24.5 ft BGS**	**21-23 ft BGS**	**21-23 ft BGS**	**21.5-23.5 ft BGS**	**21.5-23.5 ft BGS**
								Duplicate
Parameters	**Units**							
Caprolactam	ug/kg	-	-	-	-	-	-	-
Carbazole	ug/kg	-	-	-	-	-	-	-
Chrysene	ug/kg	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	ug/kg	-	-	-	-	-	-	-
Dibenzofuran	ug/kg	-	-	-	-	-	-	-
Diethyl phthalate	ug/kg	-	-	-	-	-	-	-
Dimethyl phthalate	ug/kg	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	ug/kg	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	ug/kg	-	-	-	-	-	-	-
Fluoranthene	ug/kg	-	-	-	-	-	-	-
Fluorene	ug/kg	-	-	-	-	-	-	-
Hexachlorobenzene	ug/kg	-	-	-	-	-	-	-
Hexachlorobutadiene	ug/kg	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	ug/kg	-	-	-	-	-	-	-
Hexachloroethane	ug/kg	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/kg	-	-	-	-	-	-	-
Isophorone	ug/kg	-	-	-	-	-	-	-
Naphthalene	ug/kg	-	-	-	-	-	-	-
Nitrobenzene	ug/kg	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	ug/kg	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	ug/kg	-	-	-	-	-	-	-
Pentachlorophenol	ug/kg	-	-	-	-	-	-	-
Phenanthrene	ug/kg	-	-	-	-	-	-	-
Phenol	ug/kg	-	-	-	-	-	-	-
Pyrene	ug/kg	-	-	-	-	-	-	-
Metals								
Aluminum	mg/kg	-	-	-	-	-	-	-
Antimony	mg/kg	-	-	-	-	-	-	-
Arsenic	mg/kg	-	-	-	-	-	-	-
Barium	mg/kg	-	-	-	-	-	-	-
Beryllium	mg/kg	-	-	-	-	-	-	-
Cadmium	mg/kg	-	-	-	-	-	-	-
Calcium	mg/kg	-	-	-	-	-	-	-
Chromium	mg/kg	-	-	-	-	-	-	-
Chromium III (trivalent)	mg/kg	-	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-	-
Cobalt	mg/kg	-	-	-	-	-	-	-
Copper	mg/kg	-	-	-	-	-	-	-
Iron	mg/kg	-	-	-	-	-	-	-
Lead	mg/kg	-	-	-	-	-	-	-
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-
Magnesium	mg/kg	-	-	-	-	-	-	-
Manganese	mg/kg	-	-	-	-	-	-	-

Table 12

Summary of Analytical Results
Soil/ Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH54-13**	**BH55-13**	**BH55-13**	**BH56-13**	**BH57-13**	**BH58-13**	**BH58-13**
Sample ID:		**S-38443-061813-JT-004**	**S-38443-061813-JC-011**	**S-38443-061813-JC-012**	**S-38443-061813-JC-013**	**S-38443-061813-JT-005**	**S-38443-061913-JT-009**	**S-38443-061913-JT-010**
Sample Date:		**6/18/2013**	**6/18/2013**	**6/18/2013**	**6/18/2013**	**6/18/2013**	**6/19/2013**	**6/19/2013**
Sample Depth:		**18.5-20.5 ft BGS**	**2-4 ft BGS**	**22.5-24.5 ft BGS**	**21-23 ft BGS**	**21-23 ft BGS**	**21.5-23.5 ft BGS**	**21.5-23.5 ft BGS**
								Duplicate
Parameters	**Units**							
Mercury	mg/kg	-	-	-	-	-	-	-
Nickel	mg/kg	-	-	-	-	-	-	-
Potassium	mg/kg	-	-	-	-	-	-	-
Selenium	mg/kg	-	-	-	-	-	-	-
Silver	mg/kg	-	-	-	-	-	-	-
Sodium	mg/kg	-	-	-	-	-	-	-
Thallium	mg/kg	-	-	-	-	-	-	-
Vanadium	mg/kg	-	-	-	-	-	-	-
Zinc	mg/kg	-	-	-	-	-	-	-
PCBs								
Aroclor-1016 (PCB-1016)	ug/kg	-	-	-	-	34 U	-	-
Aroclor-1221 (PCB-1221)	ug/kg	-	-	-	-	34 U	-	-
Aroclor-1232 (PCB-1232)	ug/kg	-	-	-	-	34 U	-	-
Aroclor-1242 (PCB-1242)	ug/kg	-	-	-	-	34 U	-	-
Aroclor-1248 (PCB-1248)	ug/kg	-	-	-	-	34 U	-	-
Aroclor-1254 (PCB-1254)	ug/kg	-	-	-	-	34 U	-	-
Aroclor-1260 (PCB-1260)	ug/kg	-	-	-	-	34 U	-	-
Pesticides								
4,4'-DDD	ug/kg	-	-	-	-	-	-	-
4,4'-DDE	ug/kg	-	-	-	-	-	-	-
4,4'-DDT	ug/kg	-	-	-	-	-	-	-
Aldrin	ug/kg	-	-	-	-	-	-	-
alpha-BHC	ug/kg	-	-	-	-	-	-	-
alpha-Chlordane	ug/kg	-	-	-	-	-	-	-
beta-BHC	ug/kg	-	-	-	-	-	-	-
delta-BHC	ug/kg	-	-	-	-	-	-	-
Dieldrin	ug/kg	-	-	-	-	-	-	-
Endosulfan I	ug/kg	-	-	-	-	-	-	-
Endosulfan II	ug/kg	-	-	-	-	-	-	-
Endosulfan sulfate	ug/kg	-	-	-	-	-	-	-
Endrin	ug/kg	-	-	-	-	-	-	-
Endrin aldehyde	ug/kg	-	-	-	-	-	-	-
Endrin ketone	ug/kg	-	-	-	-	-	-	-
gamma-BHC (lindane)	ug/kg	-	-	-	-	-	-	-
gamma-Chlordane	ug/kg	-	-	-	-	-	-	-
Heptachlor	ug/kg	-	-	-	-	-	-	-
Heptachlor epoxide	ug/kg	-	-	-	-	-	-	-
Methoxychlor	ug/kg	-	-	-	-	-	-	-
Toxaphene	ug/kg	-	-	-	-	-	-	-
Herbicides								
2,4,5-T	ug/kg	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/kg	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	-	-	-	-	-	-	-

Table 12

Summary of Analytical Results
Soil/ Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH54-13**	**BH55-13**	**BH55-13**	**BH56-13**	**BH57-13**	**BH58-13**	**BH58-13**
Sample ID:		**S-38443-061813-JT-004**	**S-38443-061813-JC-011**	**S-38443-061813-JC-012**	**S-38443-061813-JC-013**	**S-38443-061813-JT-005**	**S-38443-061913-JT-009**	**S-38443-061913-JT-010**
Sample Date:		**6/18/2013**	**6/18/2013**	**6/18/2013**	**6/18/2013**	**6/18/2013**	**6/19/2013**	**6/19/2013**
Sample Depth:		**18.5-20.5 ft BGS**	**2-4 ft BGS**	**22.5-24.5 ft BGS**	**21-23 ft BGS**	**21-23 ft BGS**	**21.5-23.5 ft BGS**	**21.5-23.5 ft BGS**
								Duplicate
Parameters	**Units**							
Petroleum Products								
Total Petroleum Hydrocarbons - Extractable (DRO)	ug/kg	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons - Purgeable (GRO)	ug/kg	-	-	-	-	-	-	-
Dioxin/Furans								
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Asbestos								
Asbestos	%	-	-	-	-	-	-	-
Chrysotile asbestos	%	-	-	-	-	-	-	-
Geotechnical								
Coarse sand	%	-	-	-	-	-	-	-
Fine sand	%	-	-	-	-	-	-	-
Fines	%	-	-	-	-	-	-	-
Gravel	%	-	-	-	-	-	-	-
Medium sand	%	-	-	-	-	-	-	-
Sand	%	-	-	-	-	-	-	-
Sieve, #4	% passed	-	-	-	-	-	-	-
Sieve, #10	% passed	-	-	-	-	-	-	-
Sieve, #20	% passed	-	-	-	-	-	-	-

Table 12

Summary of Analytical Results
Soil/ Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH54-13**	**BH55-13**	**BH55-13**	**BH56-13**	**BH57-13**	**BH58-13**	**BH58-13**
Sample ID:		**S-38443-061813-JT-004**	**S-38443-061813-JC-011**	**S-38443-061813-JC-012**	**S-38443-061813-JC-013**	**S-38443-061813-JT-005**	**S-38443-061913-JT-009**	**S-38443-061913-JT-010**
Sample Date:		**6/18/2013**	**6/18/2013**	**6/18/2013**	**6/18/2013**	**6/18/2013**	**6/19/2013**	**6/19/2013**
Sample Depth:		**18.5-20.5 ft BGS**	**2-4 ft BGS**	**22.5-24.5 ft BGS**	**21-23 ft BGS**	**21-23 ft BGS**	**21.5-23.5 ft BGS**	**21.5-23.5 ft BGS**
								Duplicate
Parameters	**Units**							
Sieve, #40	% passed	-	-	-	-	-	-	-
Sieve, #60	% passed	-	-	-	-	-	-	-
Sieve, #80	% passed	-	-	-	-	-	-	-
Sieve, #100	% passed	-	-	-	-	-	-	-
Sieve, #200	% passed	-	-	-	-	-	-	-
Sieve, 0.375 inch	% passed	-	-	-	-	-	-	-
Sieve, 0.75 inch	% passed	-	-	-	-	-	-	-
Sieve, 1 inch	% passed	-	-	-	-	-	-	-
Sieve, 1.5 inch	% passed	-	-	-	-	-	-	-
Sieve, 2 inch	% passed	-	-	-	-	-	-	-
Sieve, 3 inch	% passed	-	-	-	-	-	-	-
General Chemistry								
Cyanide (total)	mg/kg	-	-	-	-	-	-	-
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-

Notes
< - Less than reported value.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 12

Summary of Analytical Results
Soil/ Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH59-13**	**BH59-13**	**BH60-13**	**BH61-13**	**BH143-18**	**BH143-18**	**BH144-18**
Sample ID:		**S-38443-061913-JT-006**	**S-38443-061913-JT-007**	**S-38443-061913-JT-021**	**S-38443-061913-JC-019**	**S-38443-012318-JC-061**	**S-38443-012318-JC-062**	**S-38443-012218-JC-057**
Sample Date:		**6/19/2013**	**6/19/2013**	**6/19/2013**	**6/19/2013**	**1/23/2018**	**1/23/2018**	**1/22/2018**
Sample Depth:		**2-4 ft BGS**	**20.5-22.5 ft BGS**	**20-22 ft BGS**	**21.2-23.2 ft BGS**	**10-12 ft BGS**	**10-12 ft BGS**	**14.5-16.5 ft BGS**
							Duplicate	
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/kg	430 U	5.2 U	5.6 U	4.3 U	0.37 U	0.40 U	0.21 U
1,1,2,2-Tetrachloroethane	ug/kg	430 U	5.2 U	5.6 U	4.3 U	0.42 U	0.46 U	0.24 U
1,1,2-Trichloroethane	ug/kg	430 U	5.2 U	5.6 U	4.3 U	0.63 U	0.69 U	0.36 U
1,1-Dichloroethane	ug/kg	430 U	5.2 U	5.6 U	4.3 U	0.54 U	0.58 U	0.31 U
1,1-Dichloroethene	ug/kg	430 U	5.2 U	5.6 U	4.3 U	0.88 U	0.95 U	0.50 U
1,2,4-Trichlorobenzene	ug/kg	430 U	5.2 U	5.6 U	4.3 U	0.39 U	0.42 U	0.22 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	860 UJ	10 U	11 U	8.6 U	1.1 U	1.2 U	0.63 U
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	430 U	5.2 U	5.6 U	4.3 U	0.57 U	0.62 U	0.33 U
1,2-Dichlorobenzene	ug/kg	430 U	5.2 U	5.6 U	4.3 U	0.36 U	0.39 U	0.20 U
1,2-Dichloroethane	ug/kg	430 U	5.2 U	5.6 U	4.3 U	0.47 U	0.51 U	0.27 U
1,2-Dichloropropane	ug/kg	430 U	5.2 U	5.6 U	4.3 U	0.50 U	0.55 U	0.29 U
1,3-Dichlorobenzene	ug/kg	430 U	5.2 U	5.6 U	4.3 U	0.47 U	0.51 U	0.27 U
1,4-Dichlorobenzene	ug/kg	430 U	5.2 U	5.6 U	4.3 U	0.57 U	0.62 U	0.33 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	1700 U	21 U	22 U	17 U	16 J	28 J	3.0 J
2-Hexanone	ug/kg	1700 U	21 U	22 U	17 U	0.94 U	1.0 U	0.54 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	1700 U	21 U	22 U	17 U	1.4 U	1.6 U	0.83 U
Acetone	ug/kg	1700 U	21 U	22 U	17 U	71 J	120 J	9.4 J
Benzene	ug/kg	430 U	5.2 U	5.6 U	4.3 U	0.52 U	0.62 J	0.30 U
Bromodichloromethane	ug/kg	430 U	5.2 U	5.6 U	4.3 U	0.54 U	0.58 U	0.31 U
Bromoform	ug/kg	430 U	5.2 U	5.6 U	4.3 U	0.65 U	0.70 U	0.37 U
Bromomethane (Methyl bromide)	ug/kg	430 U	5.2 U	5.6 U	4.3 UJ	0.96 U	1.0 U	0.55 U
Carbon disulfide	ug/kg	430 U	5.2 U	5.6 U	4.3 U	1.8 J	1.6 J	0.20 U
Carbon tetrachloride	ug/kg	430 U	5.2 U	5.6 U	4.3 U	0.41 U	0.44 U	0.23 U
Chlorobenzene	ug/kg	430 U	5.2 U	5.6 U	4.3 U	0.54 U	0.58 U	0.31 U
Chloroethane	ug/kg	430 U	5.2 U	5.6 U	4.3 UJ	0.62 U	0.67 U	0.35 U
Chloroform (Trichloromethane)	ug/kg	430 U	5.2 U	5.6 U	4.3 U	0.37 U	0.40 U	0.21 U
Chloromethane (Methyl chloride)	ug/kg	430 U	5.2 U	5.6 U	4.3 U	0.62 U	0.67 U	0.35 U
cis-1,2-Dichloroethene	ug/kg	230 J	5.2 U	5.6 U	4.3 U	0.45 U	0.49 U	0.36 J
cis-1,3-Dichloropropene	ug/kg	430 U	5.2 U	5.6 U	4.3 U	0.42 U	0.46 U	0.24 U
Cyclohexane	ug/kg	860 U	10 U	11 U	8.6 U	0.34 U	0.37 U	0.20 U
Dibromochloromethane	ug/kg	430 U	5.2 U	5.6 U	4.3 U	0.49 U	0.53 U	0.28 U
Dichlorodifluoromethane (CFC-12)	ug/kg	430 U	5.2 U	5.6 U	4.3 U	0.57 UJ	0.62 UJ	0.33 U
Ethylbenzene	ug/kg	430 U	5.2 U	5.6 U	0.28 J	0.44 U	0.47 U	0.25 U
Isopropyl benzene	ug/kg	430 U	5.2 U	5.6 U	4.3 U	0.32 U	0.35 U	0.19 U
Methyl acetate	ug/kg	860 U	10 U	11 U	8.6 U	1.9 U	2.1 U	1.1 U
Methyl cyclohexane	ug/kg	860 U	10 U	11 U	8.6 U	0.37 U	0.40 U	0.21 U
Methyl tert butyl ether (MTBE)	ug/kg	430 U	5.2 U	5.6 U	4.3 U	0.44 U	0.47 U	0.25 U
Methylene chloride	ug/kg	430 U	8.9 U	7.0 U	15 J	55	63	5.8 U
Styrene	ug/kg	430 U	5.2 U	5.6 U	4.3 U	0.44 U	0.47 U	0.25 U
Tetrachloroethene	ug/kg	430 U	5.2 U	5.6 U	1.0 J	0.60 U	0.65 U	0.34 U
Toluene	ug/kg	66 J	0.35 J	5.6 U	0.63 J	0.77 J	1.3 J	0.32 U
trans-1,2-Dichloroethene	ug/kg	430 U	5.2 U	5.6 U	4.3 U	0.62 U	0.67 U	0.35 U
trans-1,3-Dichloropropene	ug/kg	430 U	5.2 U	5.6 U	4.3 U	0.34 U	0.37 U	0.20 U
Trichloroethene	ug/kg	2500	0.83 J	5.6 U	0.37 J	0.67 U	0.72 U	0.38 U
Trichlorofluoromethane (CFC-11)	ug/kg	430 U	5.2 U	5.6 U	4.3 U	0.39 U	0.42 U	0.22 U

Table 12

Summary of Analytical Results
Soil/ Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH59-13**	**BH59-13**	**BH60-13**	**BH61-13**	**BH143-18**	**BH143-18**	**BH144-18**
Sample ID:		**S-38443-061913-JT-006**	**S-38443-061913-JT-007**	**S-38443-061913-JT-021**	**S-38443-061913-JC-019**	**S-38443-012318-JC-061**	**S-38443-012318-JC-062**	**S-38443-012218-JC-057**
Sample Date:		**6/19/2013**	**6/19/2013**	**6/19/2013**	**6/19/2013**	**1/23/2018**	**1/23/2018**	**1/22/2018**
Sample Depth:		**2-4 ft BGS**	**20.5-22.5 ft BGS**	**20-22 ft BGS**	**21.2-23.2 ft BGS**	**10-12 ft BGS**	**10-12 ft BGS**	**14.5-16.5 ft BGS**
							Duplicate	
Parameters	**Units**							
Trifluorotrichloroethane (CFC-113)	ug/kg	430 U	5.2 U	5.6 U	4.3 U	0.80 U	0.86 U	0.46 U
Vinyl chloride	ug/kg	430 U	5.2 U	5.6 U	4.3 U	0.45 U	0.49 U	0.26 U
Xylenes (total)	ug/kg	860 U	10 U	11 U	8.6 U	0.65 U	0.70 U	0.37 U
Semi-Volatiles								
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	-	-	-	-	250 U	54 U	12 U
2,4,5-Trichlorophenol	ug/kg	-	-	-	-	670 U	140 U	30 U
2,4,6-Trichlorophenol	ug/kg	-	-	-	-	240 U	51 U	11 U
2,4-Dichlorophenol	ug/kg	-	-	-	-	530 U	110 U	24 U
2,4-Dimethylphenol	ug/kg	-	-	-	-	1400 J	490 J	24 U
2,4-Dinitrophenol	ug/kg	-	-	-	-	560 U	120 U	26 U
2,4-Dinitrotoluene	ug/kg	-	-	-	-	450 U	97 U	21 U
2,6-Dinitrotoluene	ug/kg	-	-	-	-	560 U	120 U	26 U
2-Chloronaphthalene	ug/kg	-	-	-	-	12 U	2.6 U	0.55 U
2-Chlorophenol	ug/kg	-	-	-	-	220 U	47 U	10 U
2-Methylnaphthalene	ug/kg	-	-	-	-	510	180	82
2-Methylphenol	ug/kg	-	-	-	-	330 J	88 J	13 U
2-Nitroaniline	ug/kg	-	-	-	-	240 U	52 U	11 U
2-Nitrophenol	ug/kg	-	-	-	-	220 U	47 U	10 U
3&4-Methylphenol	ug/kg	-	-	-	-	23000	3900	24 U
3,3'-Dichlorobenzidine	ug/kg	-	-	-	-	890 J	100 U	22 U
3-Nitroaniline	ug/kg	-	-	-	-	430 U	91 U	19 U
4,6-Dinitro-2-methylphenol	ug/kg	-	-	-	-	250 U	53 U	11 U
4-Bromophenyl phenyl ether	ug/kg	-	-	-	-	350 U	74 U	16 U
4-Chloro-3-methylphenol	ug/kg	-	-	-	-	560 U	120 U	26 U
4-Chloroaniline	ug/kg	-	-	-	-	450 U	97 U	21 U
4-Chlorophenyl phenyl ether	ug/kg	-	-	-	-	350 U	74 U	16 U
4-Methylphenol	ug/kg	-	-	-	-	-	-	-
4-Nitroaniline	ug/kg	-	-	-	-	690 U	150 U	32 U
4-Nitrophenol	ug/kg	-	-	-	-	450 U	97 U	21 U
Acenaphthene	ug/kg	-	-	-	-	170 J	55	0.92 U
Acenaphthylene	ug/kg	-	-	-	-	9.3 U	2.0 U	0.43 U
Acetophenone	ug/kg	-	-	-	-	250 U	53 U	11 U
Anthracene	ug/kg	-	-	-	-	230	4.5 U	4.4 J
Atrazine	ug/kg	-	-	-	-	240 U	52 U	11 U
Benzaldehyde	ug/kg	-	-	-	-	320 U	92 J	15 U
Benzo(a)anthracene	ug/kg	-	-	-	-	440 J	35 J	11
Benzo(a)pyrene	ug/kg	-	-	-	-	490 J	3.7 UJ	15
Benzo(b)fluoranthene	ug/kg	-	-	-	-	650 J	57 J	21
Benzo(g,h,i)perylene	ug/kg	-	-	-	-	390 J	2.0 UJ	14
Benzo(k)fluoranthene	ug/kg	-	-	-	-	300	23 J	8.2
Biphenyl (1,1-Biphenyl)	ug/kg	-	-	-	-	160 J	34 J	43 J
bis(2-Chloroethoxy)methane	ug/kg	-	-	-	-	590 U	130 U	27 U
bis(2-Chloroethyl)ether	ug/kg	-	-	-	-	53 U	11 U	2.4 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	-	-	-	-	510 U	110 U	28 J
Butyl benzylphthalate (BBP)	ug/kg	-	-	-	-	270 U	57 U	12 U

Table 12

Summary of Analytical Results
Soil/ Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH59-13**	**BH59-13**	**BH60-13**	**BH61-13**	**BH143-18**	**BH143-18**	**BH144-18**
Sample ID:		**S-38443-061913-JT-006**	**S-38443-061913-JT-007**	**S-38443-061913-JT-021**	**S-38443-061913-JC-019**	**S-38443-012318-JC-061**	**S-38443-012318-JC-062**	**S-38443-012218-JC-057**
Sample Date:		**6/19/2013**	**6/19/2013**	**6/19/2013**	**6/19/2013**	**1/23/2018**	**1/23/2018**	**1/22/2018**
Sample Depth:		**2-4 ft BGS**	**20.5-22.5 ft BGS**	**20-22 ft BGS**	**21.2-23.2 ft BGS**	**10-12 ft BGS**	**10-12 ft BGS**	**14.5-16.5 ft BGS**
							Duplicate	
Parameters	**Units**							
Caprolactam	ug/kg	-	-	-	-	990 U	210 U	45 U
Carbazole	ug/kg	-	-	-	-	720 U	150 U	33 U
Chrysene	ug/kg	-	-	-	-	590 J	26 J	16
Dibenz(a,h)anthracene	ug/kg	-	-	-	-	18 U	3.8 U	0.80 U
Dibenzofuran	ug/kg	-	-	-	-	220 J	3.8 U	0.80 U
Diethyl phthalate	ug/kg	-	-	-	-	1100 J	91 U	39 U
Dimethyl phthalate	ug/kg	-	-	-	-	450 U	97 U	21 U
Di-n-butylphthalate (DBP)	ug/kg	-	-	-	-	2400	86 U	18 U
Di-n-octyl phthalate (DnOP)	ug/kg	-	-	-	-	210 U	45 U	9.6 U
Fluoranthene	ug/kg	-	-	-	-	1200 J	70 J	33
Fluorene	ug/kg	-	-	-	-	240	23 J	5.8 J
Hexachlorobenzene	ug/kg	-	-	-	-	56 U	12 U	2.6 U
Hexachlorobutadiene	ug/kg	-	-	-	-	150 U	32 U	6.8 U
Hexachlorocyclopentadiene	ug/kg	-	-	-	-	220 U	46 U	9.8 U
Hexachloroethane	ug/kg	-	-	-	-	240 U	51 U	11 U
Indeno(1,2,3-cd)pyrene	ug/kg	-	-	-	-	320	2.0 U	11
Isophorone	ug/kg	-	-	-	-	350 U	74 U	16 U
Naphthalene	ug/kg	-	-	-	-	1700	830	280
Nitrobenzene	ug/kg	-	-	-	-	59 U	13 U	2.7 U
N-Nitrosodi-n-propylamine	ug/kg	-	-	-	-	170 U	36 U	7.7 U
N-Nitrosodiphenylamine	ug/kg	-	-	-	-	560 U	120 U	26 U
Pentachlorophenol	ug/kg	-	-	-	-	240 U	52 U	11 U
Phenanthrene	ug/kg	-	-	-	-	1300 J	82 J	42
Phenol	ug/kg	-	-	-	-	1400	260 J	8.9 U
Pyrene	ug/kg	-	-	-	-	900 J	48 J	26
Metals								
Aluminum	mg/kg	-	-	-	-	6700	9100	9000
Antimony	mg/kg	-	-	-	-	1.7	1.7	2.3
Arsenic	mg/kg	-	-	-	-	54	49	15
Barium	mg/kg	-	-	-	-	260	320	210
Beryllium	mg/kg	-	-	-	-	4.9	5.8	1.2
Cadmium	mg/kg	-	-	-	-	1.1 J	0.31 J	0.77
Calcium	mg/kg	-	-	-	-	14000	13000	4300
Chromium	mg/kg	-	-	-	-	26	33	21
Chromium III (trivalent)	mg/kg	-	-	-	-	26	32	21
Chromium VI (hexavalent)	mg/kg	-	-	-	-	0.32 U	0.75 J	0.38 J
Cobalt	mg/kg	-	-	-	-	13	16	8.6
Copper	mg/kg	-	-	-	-	65	59	170
Iron	mg/kg	-	-	-	-	11000	14000	24000
Lead	mg/kg	-	-	-	-	91	34	190
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-
Magnesium	mg/kg	-	-	-	-	1200	1000	2500
Manganese	mg/kg	-	-	-	-	59	66	340

Table 12

Summary of Analytical Results
Soil/ Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH59-13**	**BH59-13**	**BH60-13**	**BH61-13**	**BH143-18**	**BH143-18**	**BH144-18**
Sample ID:		**S-38443-061913-JT-006**	**S-38443-061913-JT-007**	**S-38443-061913-JT-021**	**S-38443-061913-JC-019**	**S-38443-012318-JC-061**	**S-38443-012318-JC-062**	**S-38443-012218-JC-057**
Sample Date:		**6/19/2013**	**6/19/2013**	**6/19/2013**	**6/19/2013**	**1/23/2018**	**1/23/2018**	**1/22/2018**
Sample Depth:		**2-4 ft BGS**	**20.5-22.5 ft BGS**	**20-22 ft BGS**	**21.2-23.2 ft BGS**	**10-12 ft BGS**	**10-12 ft BGS**	**14.5-16.5 ft BGS**
							Duplicate	
Parameters	**Units**							
Mercury	mg/kg	-	-	-	-	1.7 J	0.42 J	0.057 J
Nickel	mg/kg	-	-	-	-	21	25	23
Potassium	mg/kg	-	-	-	-	690	1000	730
Selenium	mg/kg	-	-	-	-	21	15	2.6
Silver	mg/kg	-	-	-	-	0.32 J	0.087 J	0.21
Sodium	mg/kg	-	-	-	-	550	810	950
Thallium	mg/kg	-	-	-	-	1.2	1.4	0.34
Vanadium	mg/kg	-	-	-	-	61	73	31
Zinc	mg/kg	-	-	-	-	89	31	390
PCBs								
Aroclor-1016 (PCB-1016)	ug/kg	-	-	-	34 U	30 U	310 U	27 U
Aroclor-1221 (PCB-1221)	ug/kg	-	-	-	34 U	33 U	340 U	29 U
Aroclor-1232 (PCB-1232)	ug/kg	-	-	-	34 U	31 U	330 U	28 U
Aroclor-1242 (PCB-1242)	ug/kg	-	-	-	34 U	230 J	270 U	23 U
Aroclor-1248 (PCB-1248)	ug/kg	-	-	-	34 U	33 U	340 U	29 U
Aroclor-1254 (PCB-1254)	ug/kg	-	-	-	34 U	560	330 U	28 U
Aroclor-1260 (PCB-1260)	ug/kg	-	-	-	34 U	30 U	310 U	27 U
Pesticides								
4,4'-DDD	ug/kg	-	-	-	-	4.4 U	4.6 UJ	4.0 U
4,4'-DDE	ug/kg	-	-	-	-	1.6 U	1.7 U	1.5 U
4,4'-DDT	ug/kg	-	-	-	-	5.1 J	1.9 U	1.7 U
Aldrin	ug/kg	-	-	-	-	3.2 U	3.3 U	2.9 U
alpha-BHC	ug/kg	-	-	-	-	2.1 U	2.2 UJ	1.9 U
alpha-Chlordane	ug/kg	-	-	-	-	5.1 U	5.3 U	4.6 U
beta-BHC	ug/kg	-	-	-	-	5.2 U	5.4 U	4.7 U
delta-BHC	ug/kg	-	-	-	-	170 U	1.8 U	79 U
Dieldrin	ug/kg	-	-	-	-	1.2 U	1.3 U	1.1 U
Endosulfan I	ug/kg	-	-	-	-	1.7 U	1.8 U	1.6 U
Endosulfan II	ug/kg	-	-	-	-	2.4 U	2.5 U	2.2 U
Endosulfan sulfate	ug/kg	-	-	-	-	160 U	83 U	73 U
Endrin	ug/kg	-	-	-	-	1.9 U	1.9 U	1.7 U
Endrin aldehyde	ug/kg	-	-	-	-	240 U	130 U	110 U
Endrin ketone	ug/kg	-	-	-	-	1.5 U	1.5 U	1.3 U
gamma-BHC (lindane)	ug/kg	-	-	-	-	3.9 U	4.0 UJ	3.5 U
gamma-Chlordane	ug/kg	-	-	-	-	2.0 U	2.1 U	1.8 U
Heptachlor	ug/kg	-	-	-	-	1.0 U	1.1 U	0.95 U
Heptachlor epoxide	ug/kg	-	-	-	-	3.2 U	3.3 U	2.9 U
Methoxychlor	ug/kg	-	-	-	-	1.6 UJ	1.7 U	1.5 U
Toxaphene	ug/kg	-	-	-	-	49 U	51 U	45 U
Herbicides								
2,4,5-T	ug/kg	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/kg	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	-	-	-	-	-	-	-

Table 12

Summary of Analytical Results
Soil/ Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH59-13**	**BH59-13**	**BH60-13**	**BH61-13**	**BH143-18**	**BH143-18**	**BH144-18**
Sample ID:		**S-38443-061913-JT-006**	**S-38443-061913-JT-007**	**S-38443-061913-JT-021**	**S-38443-061913-JC-019**	**S-38443-012318-JC-061**	**S-38443-012318-JC-062**	**S-38443-012218-JC-057**
Sample Date:		**6/19/2013**	**6/19/2013**	**6/19/2013**	**6/19/2013**	**1/23/2018**	**1/23/2018**	**1/22/2018**
Sample Depth:		**2-4 ft BGS**	**20.5-22.5 ft BGS**	**20-22 ft BGS**	**21.2-23.2 ft BGS**	**10-12 ft BGS**	**10-12 ft BGS**	**14.5-16.5 ft BGS**
							Duplicate	
Parameters	**Units**							
Petroleum Products								
Total Petroleum Hydrocarbons - Extractable (DRO)	ug/kg	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons - Purgeable (GRO)	ug/kg	-	-	-	-	-	-	-
Dioxin/Furans								
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	0.39 U	3.5 J	1.3 J
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	57	81 J	4.9 J
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	1.0 J	3.4 J	1.4 J
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	5.2 J	7.2 J	0.23 UJ
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	0.099 UJ	0.30 UJ	0.12 UJ
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	0.074 UJ	0.24 UJ	0.13 UJ
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	0.065 U	0.019 UJ	0.27 UJ
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	0.069 U	0.22 UJ	0.51 J
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	0.070 U	0.021 UJ	0.28 UJ
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	0.088 U	0.32 UJ	0.17 UJ
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	0.063 U	0.019 UJ	0.26 UJ
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	0.16 U	0.16 UJ	0.22 UJ
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	0.17 U	0.46 UJ	0.33 U
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	0.074 U	0.22 UJ	0.13 UJ
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	0.14 U	0.13 UJ	0.18 UJ
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	0.30 UJ	0.37 U	0.36 U
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	0.43 U	0.58 U	0.62 U
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	1.9 J	6.0 J	1.4 J
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	10 J	14 J	0.23 U
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	1.5 J	1.3 J	2.7 J
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	1.6 J	1.6 J	0.28 U
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	2.4 J	3.6 J	4.4 J
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	0.17 U	0.46 U	0.33 U
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	4.7 J	3.5 J	7.2 J
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	0.79 J	0.58 U	0.62 U
Asbestos								
Asbestos	%	-	-	-	-	ND	-	-
Chrysotile asbestos	%	-	-	-	-	-	-	-
Geotechnical								
Coarse sand	%	-	-	-	-	-	-	-
Fine sand	%	-	-	-	-	-	-	-
Fines	%	-	-	-	-	-	-	-
Gravel	%	-	-	-	-	-	-	-
Medium sand	%	-	-	-	-	-	-	-
Sand	%	-	-	-	-	-	-	-
Sieve, #4	% passed	-	-	-	-	-	-	-
Sieve, #10	% passed	-	-	-	-	-	-	-
Sieve, #20	% passed	-	-	-	-	-	-	-

Table 12

Summary of Analytical Results
Soil/ Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH59-13**	**BH59-13**	**BH60-13**	**BH61-13**	**BH143-18**	**BH143-18**	**BH144-18**
Sample ID:		**S-38443-061913-JT-006**	**S-38443-061913-JT-007**	**S-38443-061913-JT-021**	**S-38443-061913-JC-019**	**S-38443-012318-JC-061**	**S-38443-012318-JC-062**	**S-38443-012218-JC-057**
Sample Date:		**6/19/2013**	**6/19/2013**	**6/19/2013**	**6/19/2013**	**1/23/2018**	**1/23/2018**	**1/22/2018**
Sample Depth:		**2-4 ft BGS**	**20.5-22.5 ft BGS**	**20-22 ft BGS**	**21.2-23.2 ft BGS**	**10-12 ft BGS**	**10-12 ft BGS**	**14.5-16.5 ft BGS**
							Duplicate	
Parameters	**Units**							
Sieve, #40	% passed	-	-	-	-	-	-	-
Sieve, #60	% passed	-	-	-	-	-	-	-
Sieve, #80	% passed	-	-	-	-	-	-	-
Sieve, #100	% passed	-	-	-	-	-	-	-
Sieve, #200	% passed	-	-	-	-	-	-	-
Sieve, 0.375 inch	% passed	-	-	-	-	-	-	-
Sieve, 0.75 inch	% passed	-	-	-	-	-	-	-
Sieve, 1 inch	% passed	-	-	-	-	-	-	-
Sieve, 1.5 inch	% passed	-	-	-	-	-	-	-
Sieve, 2 inch	% passed	-	-	-	-	-	-	-
Sieve, 3 inch	% passed	-	-	-	-	-	-	-
General Chemistry								
Cyanide (total)	mg/kg	-	-	-	-	2.1 J	0.40 J	0.16 U
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-

Notes
< - Less than reported value.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 12

Summary of Analytical Results
Soil/ Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH144-18**	**BH145-18**	**GP19-18**	**GP20-18**	**GP33-18**	**MW-219**	**SS-125**
Sample ID:		**S-38443-012218-JC-057**	**S-38443-012218-JC-059**	**S-38443-012418-JC-063**	**S-38443-012218-JC-060**	**S-38443-012218-JC-058**	**S-38443-120409-DR-001**	**SS-38443-102918-JC-125**
Sample Date:		**1/22/2018**	**1/22/2018**	**1/24/2018**	**1/22/2018**	**1/22/2018**	**12/4/2009**	**10/29/2018**
Sample Depth:		**15.5-16.5 ft BGS**	**9-11 ft BGS**	**11-12 ft bgs**	**11-12 ft bgs**	**17.5-18.5 ft bgs**	**24-26 ft BGS**	**0-2 ft BGS**
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/kg	-	0.21 U	0.37 U	0.21 U	0.20 U	750 U	-
1,1,2,2-Tetrachloroethane	ug/kg	-	0.23 U	0.42 U	0.24 U	0.23 U	750 U	-
1,1,2-Trichloroethane	ug/kg	-	0.35 U	0.64 U	0.36 U	0.34 U	750 U	-
1,1-Dichloroethane	ug/kg	-	0.30 U	0.54 U	0.30 U	0.29 U	750 U	-
1,1-Dichloroethene	ug/kg	-	0.49 U	0.88 U	0.50 U	0.47 U	750 U	-
1,2,4-Trichlorobenzene	ug/kg	-	0.22 U	0.39 U	0.22 U	0.21 U	38 J	-
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	-	0.61 U	1.1 U	0.63 U	0.59 U	1500 U	-
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	-	0.32 U	0.57 U	0.32 U	0.31 U	750 U	-
1,2-Dichlorobenzene	ug/kg	-	0.20 U	0.36 U	0.20 U	0.19 U	57 J	-
1,2-Dichloroethane	ug/kg	-	0.26 U	0.47 U	0.27 U	0.25 U	750 U	-
1,2-Dichloropropane	ug/kg	-	0.28 U	0.50 U	0.28 U	0.27 U	750 U	-
1,3-Dichlorobenzene	ug/kg	-	0.26 U	0.47 U	0.27 U	0.25 U	750 U	-
1,4-Dichlorobenzene	ug/kg	-	0.32 U	0.57 U	0.32 U	0.31 U	750 U	-
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	-	2.9 J	2.1 U	1.2 U	1.1 U	3000 U	-
2-Hexanone	ug/kg	-	0.52 U	0.94 U	0.53 U	0.51 U	3000 U	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	-	0.80 U	1.4 U	0.82 U	0.78 U	3000 U	-
Acetone	ug/kg	-	5.4 J	20 U	2.8 U	2.7 U	3000 U	-
Benzene	ug/kg	-	0.29 U	0.52 U	0.29 U	0.28 U	750 U	-
Bromodichloromethane	ug/kg	-	0.30 U	0.54 U	0.30 U	0.29 U	750 U	-
Bromoform	ug/kg	-	0.36 U	0.65 U	0.37 U	0.35 U	750 U	-
Bromomethane (Methyl bromide)	ug/kg	-	0.53 U	0.96 U	0.54 U	0.51 U	750 U	-
Carbon disulfide	ug/kg	-	0.19 U	1.3 J	0.19 U	0.18 U	750 U	-
Carbon tetrachloride	ug/kg	-	0.23 U	0.41 U	0.23 U	0.22 U	750 U	-
Chlorobenzene	ug/kg	-	0.30 U	0.54 U	0.30 U	0.29 U	51 J	-
Chloroethane	ug/kg	-	0.34 U	0.62 U	0.35 U	0.33 U	750 U	-
Chloroform (Trichloromethane)	ug/kg	-	0.21 U	0.37 U	0.21 U	0.20 U	750 U	-
Chloromethane (Methyl chloride)	ug/kg	-	0.34 U	0.62 U	0.35 U	0.33 U	750 U	-
cis-1,2-Dichloroethene	ug/kg	-	0.65 J	17	1.8 J	0.24 U	750 U	-
cis-1,3-Dichloropropene	ug/kg	-	0.23 U	0.42 U	0.24 U	0.23 U	750 U	-
Cyclohexane	ug/kg	-	0.19 U	0.34 U	0.19 U	0.18 U	56 J	-
Dibromochloromethane	ug/kg	-	0.27 U	0.49 U	0.28 U	0.26 U	750 U	-
Dichlorodifluoromethane (CFC-12)	ug/kg	-	0.32 U	0.57 U	0.32 U	0.31 U	750 UJ	-
Ethylbenzene	ug/kg	-	0.24 U	0.44 U	0.25 U	0.24 U	44 J	-
Isopropyl benzene	ug/kg	-	0.18 U	0.33 U	0.18 U	0.17 U	1800	-
Methyl acetate	ug/kg	-	1.1 U	1.9 U	1.1 U	1.0 U	1500 U	-
Methyl cyclohexane	ug/kg	-	0.21 U	2.3 J	0.21 U	0.20 U	2800	-
Methyl tert butyl ether (MTBE)	ug/kg	-	0.24 U	0.44 U	0.25 U	0.24 U	3000 U	-
Methylene chloride	ug/kg	-	5.6 U	9.7 U	5.0 U	5.1 U	750 U	-
Styrene	ug/kg	-	0.24 U	0.44 U	0.25 U	0.24 U	750 U	-
Tetrachloroethene	ug/kg	-	0.33 U	0.60 U	0.34 U	0.32 U	750 U	-
Toluene	ug/kg	-	0.31 U	3.8 J	0.59 J	0.67 J	750 U	-
trans-1,2-Dichloroethene	ug/kg	-	0.34 U	0.62 U	0.35 U	0.33 U	750 U	-
trans-1,3-Dichloropropene	ug/kg	-	0.19 U	0.34 U	0.19 U	0.18 U	750 U	-
Trichloroethene	ug/kg	-	0.64 J	0.67 U	13	0.36 U	750 U	-
Trichlorofluoromethane (CFC-11)	ug/kg	-	0.22 U	0.39 U	0.22 UJ	0.21 UJ	750 UJ	-

Table 12

Summary of Analytical Results
Soil/ Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH144-18**	**BH145-18**	**GP19-18**	**GP20-18**	**GP33-18**	**MW-219**	**SS-125**
Sample ID:		**S-38443-012218-JC-057**	**S-38443-012218-JC-059**	**S-38443-012418-JC-063**	**S-38443-012218-JC-060**	**S-38443-012218-JC-058**	**S-38443-120409-DR-001**	**SS-38443-102918-JC-125**
Sample Date:		**1/22/2018**	**1/22/2018**	**1/24/2018**	**1/22/2018**	**1/22/2018**	**12/4/2009**	**10/29/2018**
Sample Depth:		**15.5-16.5 ft BGS**	**9-11 ft BGS**	**11-12 ft bgs**	**11-12 ft bgs**	**17.5-18.5 ft bgs**	**24-26 ft BGS**	**0-2 ft BGS**
Parameters	**Units**							
Trifluorotrichloroethane (CFC-113)	ug/kg	-	0.44 U	0.80 U	0.45 U	0.43 U	750 U	-
Vinyl chloride	ug/kg	-	0.25 U	1.9 J	0.26 U	0.24 U	750 U	-
Xylenes (total)	ug/kg	-	0.36 U	2.2 J	0.37 U	0.35 U	950 J	-
Semi-Volatiles								
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	-	11 U	-	-	-	1100 U	-
2,4,5-Trichlorophenol	ug/kg	-	29 U	-	-	-	1600 U	-
2,4,6-Trichlorophenol	ug/kg	-	10 U	-	-	-	1600 U	-
2,4-Dichlorophenol	ug/kg	-	23 U	-	-	-	1600 U	-
2,4-Dimethylphenol	ug/kg	-	23 U	-	-	-	1600 U	-
2,4-Dinitrophenol	ug/kg	-	24 U	-	-	-	3500 U	-
2,4-Dinitrotoluene	ug/kg	-	20 U	-	-	-	2100 U	-
2,6-Dinitrotoluene	ug/kg	-	24 U	-	-	-	2100 U	-
2-Chloronaphthalene	ug/kg	-	0.52 U	-	-	-	530 U	-
2-Chlorophenol	ug/kg	-	9.6 U	-	-	-	530 U	-
2-Methylnaphthalene	ug/kg	-	0.58 U	-	-	-	660	-
2-Methylphenol	ug/kg	-	13 U	-	-	-	2100 U	-
2-Nitroaniline	ug/kg	-	11 U	-	-	-	2100 U	-
2-Nitrophenol	ug/kg	-	9.7 U	-	-	-	530 U	-
3&4-Methylphenol	ug/kg	-	23 U	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/kg	-	21 U	-	-	-	1100 U	-
3-Nitroaniline	ug/kg	-	19 U	-	-	-	2100 U	-
4,6-Dinitro-2-methylphenol	ug/kg	-	11 U	-	-	-	1600 U	-
4-Bromophenyl phenyl ether	ug/kg	-	15 U	-	-	-	530 U	-
4-Chloro-3-methylphenol	ug/kg	-	24 U	-	-	-	1600 U	-
4-Chloroaniline	ug/kg	-	20 U	-	-	-	1600 U	-
4-Chlorophenyl phenyl ether	ug/kg	-	15 U	-	-	-	530 U	-
4-Methylphenol	ug/kg	-	-	-	-	-	2100 U	-
4-Nitroaniline	ug/kg	-	30 U	-	-	-	2100 U	-
4-Nitrophenol	ug/kg	-	20 U	-	-	-	3500 U	-
Acenaphthene	ug/kg	-	0.89 U	-	-	-	71 U	-
Acenaphthylene	ug/kg	-	0.41 U	-	-	-	71 U	-
Acetophenone	ug/kg	-	11 U	-	-	-	1100 U	-
Anthracene	ug/kg	-	0.91 U	-	-	-	71 U	-
Atrazine	ug/kg	-	11 U	-	-	-	2100 U	-
Benzaldehyde	ug/kg	-	14 U	-	-	-	1100 U	-
Benzo(a)anthracene	ug/kg	-	0.73 U	-	-	-	71 U	-
Benzo(a)pyrene	ug/kg	-	0.75 U	-	-	-	71 U	-
Benzo(b)fluoranthene	ug/kg	-	0.69 U	-	-	-	71 U	-
Benzo(g,h,i)perylene	ug/kg	-	0.41 U	-	-	-	71 U	-
Benzo(k)fluoranthene	ug/kg	-	0.79 U	-	-	-	71 U	-
Biphenyl (1,1-Biphenyl)	ug/kg	-	4.1 U	-	-	-	530 U	-
bis(2-Chloroethoxy)methane	ug/kg	-	26 U	-	-	-	1100 U	-
bis(2-Chloroethyl)ether	ug/kg	-	2.3 U	-	-	-	1100 U	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	-	22 U	-	-	-	240 J	-
Butyl benzylphthalate (BBP)	ug/kg	-	12 U	-	-	-	530 U	-

Table 12

Summary of Analytical Results
Soil/ Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH144-18**	**BH145-18**	**GP19-18**	**GP20-18**	**GP33-18**	**MW-219**	**SS-125**
Sample ID:		**S-38443-012218-JC-057**	**S-38443-012218-JC-059**	**S-38443-012418-JC-063**	**S-38443-012218-JC-060**	**S-38443-012218-JC-058**	**S-38443-120409-DR-001**	**SS-38443-102918-JC-125**
Sample Date:		**1/22/2018**	**1/22/2018**	**1/24/2018**	**1/22/2018**	**1/22/2018**	**12/4/2009**	**10/29/2018**
Sample Depth:		**15.5-16.5 ft BGS**	**9-11 ft BGS**	**11-12 ft bgs**	**11-12 ft bgs**	**17.5-18.5 ft bgs**	**24-26 ft BGS**	**0-2 ft BGS**
Parameters	**Units**							
Caprolactam	ug/kg	-	43 U	-	-	-	3500 U	-
Carbazole	ug/kg	-	31 U	-	-	-	530 U	-
Chrysene	ug/kg	-	1.3 U	-	-	-	71 U	-
Dibenz(a,h)anthracene	ug/kg	-	0.77 U	-	-	-	71 U	-
Dibenzofuran	ug/kg	-	0.77 U	-	-	-	530 U	-
Diethyl phthalate	ug/kg	-	19 U	-	-	-	530 U	-
Dimethyl phthalate	ug/kg	-	20 U	-	-	-	530 U	-
Di-n-butylphthalate (DBP)	ug/kg	-	17 U	-	-	-	530 U	-
Di-n-octyl phthalate (DnOP)	ug/kg	-	9.2 U	-	-	-	530 U	-
Fluoranthene	ug/kg	-	0.64 U	-	-	-	130	-
Fluorene	ug/kg	-	0.62 U	-	-	-	71 U	-
Hexachlorobenzene	ug/kg	-	2.4 U	-	-	-	71 U	-
Hexachlorobutadiene	ug/kg	-	6.5 U	-	-	-	530 U	-
Hexachlorocyclopentadiene	ug/kg	-	R	-	-	-	3500 U	-
Hexachloroethane	ug/kg	-	10 U	-	-	-	530 U	-
Indeno(1,2,3-cd)pyrene	ug/kg	-	0.41 U	-	-	-	71 U	-
Isophorone	ug/kg	-	15 U	-	-	-	530 U	-
Naphthalene	ug/kg	-	0.96 U	-	-	-	600	-
Nitrobenzene	ug/kg	-	2.6 U	-	-	-	1100 U	-
N-Nitrosodi-n-propylamine	ug/kg	-	7.3 U	-	-	-	530 U	-
N-Nitrosodiphenylamine	ug/kg	-	24 U	-	-	-	530 U	-
Pentachlorophenol	ug/kg	-	11 U	-	-	-	1600 U	-
Phenanthrene	ug/kg	-	0.85 U	-	-	-	210	-
Phenol	ug/kg	-	8.5 U	-	-	-	530 U	-
Pyrene	ug/kg	-	0.51 U	-	-	-	100	-
Metals								
Aluminum	mg/kg	-	12000	-	-	-	-	-
Antimony	mg/kg	-	0.23 J	-	-	-	-	-
Arsenic	mg/kg	-	12	-	-	-	5.5 J	-
Barium	mg/kg	-	93	-	-	-	-	-
Beryllium	mg/kg	-	0.69	-	-	-	-	-
Cadmium	mg/kg	-	0.24	-	-	-	-	-
Calcium	mg/kg	-	9400	-	-	-	-	-
Chromium	mg/kg	-	16	-	-	-	-	-
Chromium III (trivalent)	mg/kg	-	16	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	1.4 U	-	-	-	-	-
Cobalt	mg/kg	-	7.4	-	-	-	-	-
Copper	mg/kg	-	22	-	-	-	-	-
Iron	mg/kg	-	23000	-	-	-	-	-
Lead	mg/kg	-	16	-	-	-	7.0 J	-
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-
Magnesium	mg/kg	-	6600	-	-	-	-	-
Manganese	mg/kg	-	560	-	-	-	-	-

Table 12

Summary of Analytical Results
Soil/ Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH144-18**	**BH145-18**	**GP19-18**	**GP20-18**	**GP33-18**	**MW-219**	**SS-125**
Sample ID:		**S-38443-012218-JC-057**	**S-38443-012218-JC-059**	**S-38443-012418-JC-063**	**S-38443-012218-JC-060**	**S-38443-012218-JC-058**	**S-38443-120409-DR-001**	**SS-38443-102918-JC-125**
Sample Date:		**1/22/2018**	**1/22/2018**	**1/24/2018**	**1/22/2018**	**1/22/2018**	**12/4/2009**	**10/29/2018**
Sample Depth:		**15.5-16.5 ft BGS**	**9-11 ft BGS**	**11-12 ft bgs**	**11-12 ft bgs**	**17.5-18.5 ft bgs**	**24-26 ft BGS**	**0-2 ft BGS**
Parameters	**Units**							
Mercury	mg/kg	-	0.024 U	-	-	-	-	-
Nickel	mg/kg	-	16	-	-	-	-	-
Potassium	mg/kg	-	1100	-	-	-	-	-
Selenium	mg/kg	-	1.0 J	-	-	-	-	-
Silver	mg/kg	-	0.036 J	-	-	-	-	-
Sodium	mg/kg	-	58 U	-	-	-	-	-
Thallium	mg/kg	-	0.19 J	-	-	-	-	-
Vanadium	mg/kg	-	29	-	-	-	-	-
Zinc	mg/kg	-	76	-	-	-	-	-
PCBs								
Aroclor-1016 (PCB-1016)	ug/kg	-	25 U	-	-	-	35 U	-
Aroclor-1221 (PCB-1221)	ug/kg	-	28 U	-	-	-	35 U	-
Aroclor-1232 (PCB-1232)	ug/kg	-	26 U	-	-	-	35 U	-
Aroclor-1242 (PCB-1242)	ug/kg	-	22 U	-	-	-	35 U	-
Aroclor-1248 (PCB-1248)	ug/kg	-	28 U	-	-	-	35 U	-
Aroclor-1254 (PCB-1254)	ug/kg	-	26 U	-	-	-	40	-
Aroclor-1260 (PCB-1260)	ug/kg	-	25 U	-	-	-	35 U	-
Pesticides								
4,4'-DDD	ug/kg	-	3.9 U	-	-	-	1.8 U	-
4,4'-DDE	ug/kg	-	1.4 U	-	-	-	1.6 J	-
4,4'-DDT	ug/kg	-	1.6 U	-	-	-	1.8 U	-
Aldrin	ug/kg	-	2.8 U	-	-	-	1.8 U	-
alpha-BHC	ug/kg	-	1.9 U	-	-	-	1.8 U	-
alpha-Chlordane	ug/kg	-	4.4 U	-	-	-	1.8 U	-
beta-BHC	ug/kg	-	4.6 U	-	-	-	1.8 U	-
delta-BHC	ug/kg	-	1.5 U	-	-	-	1.8 U	-
Dieldrin	ug/kg	-	1.1 U	-	-	-	1.8 U	-
Endosulfan I	ug/kg	-	1.5 U	-	-	-	1.8 U	-
Endosulfan II	ug/kg	-	2.1 U	-	-	-	1.8 U	-
Endosulfan sulfate	ug/kg	-	1.4 U	-	-	-	1.8 U	-
Endrin	ug/kg	-	1.6 U	-	-	-	1.8 U	-
Endrin aldehyde	ug/kg	-	2.1 U	-	-	-	1.8 U	-
Endrin ketone	ug/kg	-	1.3 U	-	-	-	1.8 U	-
gamma-BHC (lindane)	ug/kg	-	3.4 U	-	-	-	1.8 U	-
gamma-Chlordane	ug/kg	-	1.8 U	-	-	-	1.8 U	-
Heptachlor	ug/kg	-	0.91 U	-	-	-	1.8 U	-
Heptachlor epoxide	ug/kg	-	2.8 U	-	-	-	1.8 U	-
Methoxychlor	ug/kg	-	1.4 U	-	-	-	3.5 U	-
Toxaphene	ug/kg	-	43 U	-	-	-	71 U	-
Herbicides								
2,4,5-T	ug/kg	-	-	-	-	-	-	15 U
2,4,5-TP (Silvex)	ug/kg	-	-	-	-	-	21 U	16 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	-	-	-	-	-	85 U	57 U

Table 12

Summary of Analytical Results
Soil/ Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH144-18**	**BH145-18**	**GP19-18**	**GP20-18**	**GP33-18**	**MW-219**	**SS-125**
Sample ID:		**S-38443-012218-JC-057**	**S-38443-012218-JC-059**	**S-38443-012418-JC-063**	**S-38443-012218-JC-060**	**S-38443-012218-JC-058**	**S-38443-120409-DR-001**	**SS-38443-102918-JC-125**
Sample Date:		**1/22/2018**	**1/22/2018**	**1/24/2018**	**1/22/2018**	**1/22/2018**	**12/4/2009**	**10/29/2018**
Sample Depth:		**15.5-16.5 ft BGS**	**9-11 ft BGS**	**11-12 ft bgs**	**11-12 ft bgs**	**17.5-18.5 ft bgs**	**24-26 ft BGS**	**0-2 ft BGS**
Parameters	**Units**							
Petroleum Products								
Total Petroleum Hydrocarbons - Extractable (DRO)	ug/kg	-	-	-	-	-	1400000	-
Total Petroleum Hydrocarbons - Purgeable (GRO)	ug/kg	-	-	-	-	-	410000 J	-
Dioxin/Furans								
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	1.5 J	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	34	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	4.3 J	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	16	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	0.11 U	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	1.5 J	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	0.43 J	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	2.0 J	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	2.7 J	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	0.28 U	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	3.3 J	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	0.71 J	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	1.0 J	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	1.5 J	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	1.8 J	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	0.29 U	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	0.34 U	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	7.1 J	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	26 J	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	54 J	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	24 J	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	120 J	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	5.0 J	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	200 J	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	2.1 J	-	-	-	-	-
Asbestos								
Asbestos	%	ND	ND	-	-	-	-	-
Chrysotile asbestos	%	-	-	-	-	-	-	-
Geotechnical								
Coarse sand	%	-	-	3.7	15.2	11.8	-	-
Fine sand	%	-	-	11.4	8.0	10.4	-	-
Fines	%	-	-	35.3	11.7	9.3	-	-
Gravel	%	-	-	43.5	42.1	54.6	-	-
Medium sand	%	-	-	6.1	23.0	13.9	-	-
Sand	%	-	-	21.2	46.2	36.1	-	-
Sieve, #4	% passed	-	-	56.5	57.9	45.4	-	-
Sieve, #10	% passed	-	-	52.8	42.7	33.6	-	-
Sieve, #20	% passed	-	-	49.6	30.3	26.2	-	-

Table 12

Summary of Analytical Results
Soil/ Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH144-18**	**BH145-18**	**GP19-18**	**GP20-18**	**GP33-18**	**MW-219**	**SS-125**
Sample ID:		**S-38443-012218-JC-057**	**S-38443-012218-JC-059**	**S-38443-012418-JC-063**	**S-38443-012218-JC-060**	**S-38443-012218-JC-058**	**S-38443-120409-DR-001**	**SS-38443-102918-JC-125**
Sample Date:		**1/22/2018**	**1/22/2018**	**1/24/2018**	**1/22/2018**	**1/22/2018**	**12/4/2009**	**10/29/2018**
Sample Depth:		**15.5-16.5 ft BGS**	**9-11 ft BGS**	**11-12 ft bgs**	**11-12 ft bgs**	**17.5-18.5 ft bgs**	**24-26 ft BGS**	**0-2 ft BGS**
Parameters	**Units**							
Sieve, #40	% passed	-	-	46.7	19.7	19.7	-	-
Sieve, #60	% passed	-	-	43.7	15.6	14.9	-	-
Sieve, #80	% passed	-	-	41.6	14.3	12.7	-	-
Sieve, #100	% passed	-	-	40.3	13.6	11.7	-	-
Sieve, #200	% passed	-	-	35.3	11.7	9.3	-	-
Sieve, 0.375 inch	% passed	-	-	60.4	75.0	61.7	-	-
Sieve, 0.75 inch	% passed	-	-	67.2	94.0	84.0	-	-
Sieve, 1 inch	% passed	-	-	67.2	100.0	100.0	-	-
Sieve, 1.5 inch	% passed	-	-	100.0	100.0	100.0	-	-
Sieve, 2 inch	% passed	-	-	100.0	100.0	100.0	-	-
Sieve, 3 inch	% passed	-	-	100.0	100.0	100.0	-	-
General Chemistry								
Cyanide (total)	mg/kg	-	0.12 U	-	-	-	-	-
Fraction organic carbon (FOC)	%	-	-	2.9	0.2	0.3	-	-
Total solids	%	-	-	-	-	-	94.0	-

Notes
< - Less than reported value.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 12

Summary of Analytical Results
Soil/ Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-130**	**SS-130**	**SS-131**	**SS-132**	**SS-132**	**SS-133**	**SS-134**
Sample ID:		**SS-38443-102918-JC-130**	**SS-38443-102918-JC-114**	**SS-38443-102918-JC-131**	**S-38443-110817-BW-031**	**S-38443-110817-BW-032**	**SS-38443-102918-JC-133**	**SS-38443-102918-JC-134**
Sample Date:		**10/29/2018**	**10/29/2018**	**10/29/2018**	**11/8/2017**	**11/8/2017**	**10/29/2018**	**10/29/2018**
Sample Depth:		**0.25-2.25 ft BGS**	**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0.7-2.7 ft BGS**	**0.7-2.7 ft BGS**	**0.5-2.5 ft BGS**	**0.92-2.92 ft BGS**
			Duplicate			**Duplicate**		
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/kg	0.80 U	0.81 U	23 U	69 U	43 U	R	R
1,1,2,2-Tetrachloroethane	ug/kg	1.4 U	1.4 U	23 U	59 UJ	37 UJ	R	R
1,1,2-Trichloroethane	ug/kg	1.1 U	1.1 U	21 U	57 U	35 U	R	R
1,1-Dichloroethane	ug/kg	0.68 U	0.69 U	15 U	76 U	47 U	R	5.3 J
1,1-Dichloroethene	ug/kg	0.88 U	0.89 U	25 U	89 U	55 U	R	R
1,2,4-Trichlorobenzene	ug/kg	0.56 U	0.57 U	220 U	64 U	40 U	R	R
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	3.5 U	3.6 U	140 U	120 U	73 U	R	R
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	0.75 U	0.76 U	130 U	57 U	35 U	R	R
1,2-Dichlorobenzene	ug/kg	1.1 U	1.1 U	34 U	44 U	27 U	R	R
1,2-Dichloroethane	ug/kg	0.75 U	0.76 U	20 U	74 U	46 U	R	R
1,2-Dichloropropane	ug/kg	0.83 U	0.84 U	13 U	74 U	46 U	R	R
1,3-Dichlorobenzene	ug/kg	0.80 U	0.81 U	34 U	94 U	58 U	R	2.1 J
1,4-Dichlorobenzene	ug/kg	0.86 U	0.87 U	28 U	67 U	41 U	R	R
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	10 J	8.3 J	260 U	120 U	85 J	18 J	46 J
2-Hexanone	ug/kg	4.0 U	4.0 U	430 U	210 U	130 U	R	R
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	3.6 U	3.7 U	390 U	99 U	61 U	R	R
Acetone	ug/kg	21 U	21 U	400 U	240 U	150 U	R	R
Benzene	ug/kg	0.68 U	0.69 U	13 U	59 U	37 U	R	21 J
Bromodichloromethane	ug/kg	0.66 U	0.67 U	46 U	44 U	27 U	R	R
Bromoform	ug/kg	2.3 U	2.4 U	170 U	57 U	35 U	R	R
Bromomethane (Methyl bromide)	ug/kg	0.96 U	0.98 U	270 U	69 UJ	43 UJ	R	R
Carbon disulfide	ug/kg	1.1 U	1.2 U	180 U	44 U	27 U	R	R
Carbon tetrachloride	ug/kg	3.2 U	3.2 U	30 U	67 U	41 U	R	R
Chlorobenzene	ug/kg	0.89 U	0.91 U	57 U	74 U	46 U	R	R
Chloroethane	ug/kg	1.2 U	1.2 U	250 U	69 U	43 U	R	R
Chloroform (Trichloromethane)	ug/kg	0.77 U	0.78 U	15 U	59 U	37 U	R	R
Chloromethane (Methyl chloride)	ug/kg	1.0 U	1.0 U	110 U	44 U	27 U	R	R
cis-1,2-Dichloroethene	ug/kg	0.64 U	0.64 U	15 U	270 J	340 J	R	R
cis-1,3-Dichloropropene	ug/kg	1.4 U	1.4 U	61 U	57 U	35 U	R	R
Cyclohexane	ug/kg	1.3 U	1.4 U	270 U	74 U	46 J	R	R
Dibromochloromethane	ug/kg	2.7 U	2.8 U	190 U	84 U	52 U	R	R
Dichlorodifluoromethane (CFC-12)	ug/kg	0.92 U	0.93 U	87 U	54 U	34 U	R	R
Ethylbenzene	ug/kg	1.0 U	1.0 U	20 U	86 U	53 U	R	R
Isopropyl benzene	ug/kg	0.81 U	0.82 U	62 U	84 U	52 U	R	R
Methyl acetate	ug/kg	3.3 U	3.4 U	860 U	180 U	110 U	R	R
Methyl cyclohexane	ug/kg	1.2 U	1.2 U	110 U	160 J	160 J	R	R
Methyl tert butyl ether (MTBE)	ug/kg	0.80 U	0.81 U	61 U	64 U	40 U	R	R
Methylene chloride	ug/kg	12 U	12 U	630 U	470 J	280 J	R	R
Styrene	ug/kg	1.1 U	1.1 U	20 U	25 U	15 U	R	R
Tetrachloroethene	ug/kg	0.71 U	0.72 U	76 J	52 U	32 U	1.2 J	R
Toluene	ug/kg	0.75 U	0.76 U	74 U	90 J	110 J	R	R
trans-1,2-Dichloroethene	ug/kg	0.45 U	0.46 U	25 U	86 U	53 U	R	R
trans-1,3-Dichloropropene	ug/kg	1.0 U	1.0 U	170 U	37 U	23 U	R	R
Trichloroethene	ug/kg	0.62 U	0.63 U	850	3200	3600	3.7 J	R
Trichlorofluoromethane (CFC-11)	ug/kg	1.1 U	1.1 U	75 U	84 U	52 U	R	R

Table 12

Summary of Analytical Results
Soil/ Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-130**	**SS-130**	**SS-131**	**SS-132**	**SS-132**	**SS-133**	**SS-134**
Sample ID:		**SS-38443-102918-JC-130**	**SS-38443-102918-JC-114**	**SS-38443-102918-JC-131**	**S-38443-110817-BW-031**	**S-38443-110817-BW-032**	**SS-38443-102918-JC-133**	**SS-38443-102918-JC-134**
Sample Date:		**10/29/2018**	**10/29/2018**	**10/29/2018**	**11/8/2017**	**11/8/2017**	**10/29/2018**	**10/29/2018**
Sample Depth:		**0.25-2.25 ft BGS**	**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0.7-2.7 ft BGS**	**0.7-2.7 ft BGS**	**0.5-2.5 ft BGS**	**0.92-2.92 ft BGS**
			Duplicate			**Duplicate**		
Parameters	**Units**							
Trifluorotrichloroethane (CFC-113)	ug/kg	1.3 U	1.3 U	110 U	57 U	35 U	R	R
Vinyl chloride	ug/kg	0.82 U	0.83 U	16 U	42 U	26 U	R	R
Xylenes (total)	ug/kg	1.5 U	1.6 U	38 U	69 U	140 J	R	R
Semi-Volatiles								
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	12 UJ	12 U	10 U	200 U	68 U	10 U	14 UJ
2,4,5-Trichlorophenol	ug/kg	80 U	82 U	71 U	530 U	180 U	72 U	94 U
2,4,6-Trichlorophenol	ug/kg	74 U	76 U	66 U	190 U	64 U	67 U	87 U
2,4-Dichlorophenol	ug/kg	51 U	53 U	46 U	420 U	140 U	46 U	60 U
2,4-Dimethylphenol	ug/kg	46 U	48 U	41 U	420 U	140 U	42 U	54 U
2,4-Dinitrophenol	ug/kg	R	170 U	150 U	440 U	150 U	150 U	190 U
2,4-Dinitrotoluene	ug/kg	72 U	74 U	64 U	360 U	120 U	65 U	84 U
2,6-Dinitrotoluene	ug/kg	65 U	67 U	58 U	440 U	150 U	58 U	76 U
2-Chloronaphthalene	ug/kg	16 U	17 U	15 U	9.5 U	3.2 U	15 U	19 U
2-Chlorophenol	ug/kg	12 U	12 U	10 U	170 U	59 U	10 U	14 U
2-Methylnaphthalene	ug/kg	14 J	14 J	6.7 J	380	310	730	2.7 U
2-Methylphenol	ug/kg	36 U	37 U	32 U	230 U	79 U	32 U	42 U
2-Nitroaniline	ug/kg	46 U	48 U	41 U	190 U	65 U	42 U	54 U
2-Nitrophenol	ug/kg	15 U	16 U	13 U	170 U	59 U	14 U	18 U
3&4-Methylphenol	ug/kg	33 U	35 U	30 U	420 U	140 U	30 U	39 U
3,3'-Dichlorobenzidine	ug/kg	50 U	51 U	45 U	380 U	130 U	45 U	58 U
3-Nitroaniline	ug/kg	57 U	58 U	51 U	340 U	110 U	51 U	66 U
4,6-Dinitro-2-methylphenol	ug/kg	R	95 U	83 U	190 U	66 U	83 U	110 U
4-Bromophenyl phenyl ether	ug/kg	16 U	17 U	15 U	270 U	93 U	15 U	19 U
4-Chloro-3-methylphenol	ug/kg	52 U	54 U	47 U	440 U	150 U	47 U	61 U
4-Chloroaniline	ug/kg	35 U	36 U	31 U	360 U	120 U	31 U	41 U
4-Chlorophenyl phenyl ether	ug/kg	16 U	17 U	15 U	270 U	93 U	15 U	19 U
4-Methylphenol	ug/kg	-	-	-	-	-	-	-
4-Nitroaniline	ug/kg	69 U	72 U	62 U	550 U	190 U	63 U	81 U
4-Nitrophenol	ug/kg	110 U	110 U	97 U	360 U	120 U	98 U	130 U
Acenaphthene	ug/kg	12 J	23	19	1400 J	360 J	3.0 U	3.9 U
Acenaphthylene	ug/kg	6.5 J	4.8 U	4.2 U	97 J	65	32	5.4 U
Acetophenone	ug/kg	13 U	13 U	11 U	190 U	66 U	11 U	15 U
Anthracene	ug/kg	32	94	70	3600 J	1100 J	43	3.3 U
Atrazine	ug/kg	42 U	43 U	37 U	190 U	65 U	38 U	49 U
Benzaldehyde	ug/kg	27 U	27 U	24 U	250 U	86 U	24 U	31 U
Benzo(a)anthracene	ug/kg	120	150	180	9600	4500	200	4.6 U
Benzo(a)pyrene	ug/kg	120	110	140	8500	4200	220	13 U
Benzo(b)fluoranthene	ug/kg	180	150	190	12000	5700	400	8.8 U
Benzo(g,h,i)perylene	ug/kg	99	78	100	6100	3400	260	9.6 U
Benzo(k)fluoranthene	ug/kg	70	71	89	4200	2200	120	9.4 U
Biphenyl (1,1-Biphenyl)	ug/kg	20 U	20 U	18 U	74 U	86 J	49 J	23 U
bis(2-Chloroethoxy)methane	ug/kg	14 U	14 U	12 U	460 U	160 U	13 U	16 U
bis(2-Chloroethyl)ether	ug/kg	14 U	14 U	12 U	42 U	14 U	13 U	16 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	59 U	61 U	53 U	400 U	230 J	53 U	69 U
Butyl benzylphthalate (BBP)	ug/kg	25 U	26 U	23 U	210 U	71 U	23 U	30 U

Table 12

Summary of Analytical Results
Soil/ Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-130**	**SS-130**	**SS-131**	**SS-132**	**SS-132**	**SS-133**	**SS-134**
Sample ID:		**SS-38443-102918-JC-130**	**SS-38443-102918-JC-114**	**SS-38443-102918-JC-131**	**S-38443-110817-BW-031**	**S-38443-110817-BW-032**	**SS-38443-102918-JC-133**	**SS-38443-102918-JC-134**
Sample Date:		**10/29/2018**	**10/29/2018**	**10/29/2018**	**11/8/2017**	**11/8/2017**	**10/29/2018**	**10/29/2018**
Sample Depth:		**0.25-2.25 ft BGS**	**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0.7-2.7 ft BGS**	**0.7-2.7 ft BGS**	**0.5-2.5 ft BGS**	**0.92-2.92 ft BGS**
			Duplicate			**Duplicate**		
Parameters	**Units**							
Caprolactam	ug/kg	87 U	89 U	78 U	780 U	260 U	78 U	100 U
Carbazole	ug/kg	25 J	45 J	33 J	1500	550	20 U	26 U
Chrysene	ug/kg	140	140	170	9300	4600	270	2.0 U
Dibenz(a,h)anthracene	ug/kg	8.0 U	18	29	1600	860	70	9.4 U
Dibenzofuran	ug/kg	15 U	28 J	14 J	780 J	260 J	180	18 U
Diethyl phthalate	ug/kg	36 U	37 U	380	350 J	110 U	32 U	42 U
Dimethyl phthalate	ug/kg	16 U	17 U	15 U	360 U	120 U	15 U	19 U
Di-n-butylphthalate (DBP)	ug/kg	25 U	26 U	23 U	360 J	180 J	27 J	30 U
Di-n-octyl phthalate (DnOP)	ug/kg	32 U	33 U	29 U	170 U	56 U	29 U	38 U
Fluoranthene	ug/kg	270	400	390	21000	9200	270	6.0 U
Fluorene	ug/kg	12 J	52 J	21	1300 J	350 J	16	3.7 U
Hexachlorobenzene	ug/kg	3.3 U	3.4 U	3.0 U	44 U	15 U	3.0 U	3.9 U
Hexachlorobutadiene	ug/kg	14 U	14 U	12 U	120 U	40 U	13 U	16 U
Hexachlorocyclopentadiene	ug/kg	R	74 U	64 U	170 U	58 U	65 U	84 U
Hexachloroethane	ug/kg	10 U	11 U	9.3 U	190 U	64 U	9.4 U	12 U
Indeno(1,2,3-cd)pyrene	ug/kg	92	67	84	5300	3000	200	10 U
Isophorone	ug/kg	14 U	14 U	12 U	270 U	93 U	13 U	16 U
Naphthalene	ug/kg	15 J	14 J	9.2 J	330	300	400	3.3 U
Nitrobenzene	ug/kg	15 U	16 U	13 U	46 U	16 U	14 U	18 U
N-Nitrosodi-n-propylamine	ug/kg	13 UJ	13 U	11 U	130 U	45 U	11 U	15 UJ
N-Nitrosodiphenylamine	ug/kg	14 U	14 U	12 U	440 U	150 U	13 U	16 U
Pentachlorophenol	ug/kg	67 U	69 U	60 U	190 U	65 U	61 U	79 U
Phenanthrene	ug/kg	160	380	260	13000	4800	400	3.0 U
Phenol	ug/kg	9.2 U	9.5 U	8.3 U	150 U	52 U	8.3 U	11 U
Pyrene	ug/kg	260	280	310	18000	7700	220	2.9 U
Metals								
Aluminum	mg/kg	12000	13000	2800	7100	6600	6400	7200
Antimony	mg/kg	0.42 J	0.24 J	0.49	8.1 J	5.7 J	3.2	1.3
Arsenic	mg/kg	9.5	12	4.7	26	27	11	17
Barium	mg/kg	94	83	160	990	970	1200	180
Beryllium	mg/kg	0.92	0.95	0.28	0.86	0.86	0.81	3.9
Cadmium	mg/kg	0.60	0.20	0.28	5.2	4.4	3.7	1.2
Calcium	mg/kg	8400	47000	130000	71000	82000	54000	1500
Chromium	mg/kg	21	18	9.6	48	36	33	20
Chromium III (trivalent)	mg/kg	20	18	9.6	-	-	33	19
Chromium VI (hexavalent)	mg/kg	0.74 J	0.29 U	0.25 U	-	-	0.86	0.77 J
Cobalt	mg/kg	8.5	8.6	3.2	13	10	8.4	11
Copper	mg/kg	41	20	25	870	730	490	36
Iron	mg/kg	21000	25000	8800	40000	25000	28000	9700
Lead	mg/kg	170	25	20	2600 J	840 J	510	15
Lead - coarse fraction	mg/kg	-	-	18	-	-	-	-
Lead - fine fraction	mg/kg	-	-	26	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	19	-	-	-	-
Magnesium	mg/kg	5400	19000	54000	25000	32000	16000	380
Manganese	mg/kg	360	450	390	1100	1100	340	34

Table 12

Summary of Analytical Results
Soil/ Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-130**	**SS-130**	**SS-131**	**SS-132**	**SS-132**	**SS-133**	**SS-134**
Sample ID:		**SS-38443-102918-JC-130**	**SS-38443-102918-JC-114**	**SS-38443-102918-JC-131**	**S-38443-110817-BW-031**	**S-38443-110817-BW-032**	**SS-38443-102918-JC-133**	**SS-38443-102918-JC-134**
Sample Date:		**10/29/2018**	**10/29/2018**	**10/29/2018**	**11/8/2017**	**11/8/2017**	**10/29/2018**	**10/29/2018**
Sample Depth:		**0.25-2.25 ft BGS**	**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0.7-2.7 ft BGS**	**0.7-2.7 ft BGS**	**0.5-2.5 ft BGS**	**0.92-2.92 ft BGS**
			Duplicate			**Duplicate**		
Parameters	**Units**							
Mercury	mg/kg	6.1	0.30	0.019 U	0.28	0.24	0.19	0.22
Nickel	mg/kg	18	19	9.1	61	49	56	41
Potassium	mg/kg	1000	950	400	790	740	740	1100
Selenium	mg/kg	0.79 J	1.1	0.38 J	1.3	1.2	0.93 J	4.4
Silver	mg/kg	0.22	0.043 J	0.059 J	1.9	1.7	1.4	0.14 J
Sodium	mg/kg	64 J	89 J	150 J	310	270	130 J	190 J
Thallium	mg/kg	0.25	0.29	0.075 J	0.36 J	0.33 J	0.26	0.65
Vanadium	mg/kg	29	31	12	19	19	18	29
Zinc	mg/kg	92	58	61	1500	1400	830	500
PCBs								
Aroclor-1016 (PCB-1016)	ug/kg	26 U	27 U	23 U	50 U	26 U	22 U	30 U
Aroclor-1221 (PCB-1221)	ug/kg	29 U	29 U	25 U	48 U	25 U	24 U	33 U
Aroclor-1232 (PCB-1232)	ug/kg	27 U	28 U	24 U	33 U	17 U	23 U	32 U
Aroclor-1242 (PCB-1242)	ug/kg	23 U	23 U	20 U	42 U	21 U	19 U	26 U
Aroclor-1248 (PCB-1248)	ug/kg	29 U	29 U	25 U	1900 J	1300 J	24 U	33 U
Aroclor-1254 (PCB-1254)	ug/kg	27 U	86	24 U	29 U	15 U	150	32 U
Aroclor-1260 (PCB-1260)	ug/kg	26 U	27 U	23 U	1100 J	440 J	22 U	30 U
Pesticides								
4,4'-DDD	ug/kg	1.8 U	2.0 NJ	1.6 U	35 U	35 U	7.5 U	10 U
4,4'-DDE	ug/kg	1.8 U	2.3 J	1.6 U	13 U	13 U	7.7 U	10 U
4,4'-DDT	ug/kg	1.3 U	6.2 J	1.2 U	15 U	15 U	5.7 U	7.8 U
Aldrin	ug/kg	0.92 U	0.93 U	0.81 U	25 U	26 U	3.9 U	5.3 U
alpha-BHC	ug/kg	1.1 U	1.1 U	0.95 U	17 U	17 U	4.6 U	6.3 U
alpha-Chlordane	ug/kg	1.8 U	1.8 U	1.6 U	40 U	41 U	7.6 U	10 U
beta-BHC	ug/kg	2.1 U	2.1 U	1.8 U	41 U	42 U	8.8 U	12 U
delta-BHC	ug/kg	2.0 U	2.0 U	1.8 U	14 U	14 U	8.6 U	12 U
Dieldrin	ug/kg	1.3 U	1.3 U	1.2 U	9.4 U	9.6 U	5.6 U	7.6 U
Endosulfan I	ug/kg	1.4 U	1.5 U	1.3 U	14 U	14 U	6.1 U	8.3 U
Endosulfan II	ug/kg	1.8 U	1.8 U	1.6 U	19 U	19 U	7.5 U	10 U
Endosulfan sulfate	ug/kg	1.5 U	1.6 U	1.3 U	13 U	13 U	6.5 U	8.8 U
Endrin	ug/kg	2.3 U	2.3 U	2.0 U	17 NJ	15 U	9.6 U	13 U
Endrin aldehyde	ug/kg	2.1 NJ	1.6 U	1.4 U	36 J	24 J	6.7 U	9.0 U
Endrin ketone	ug/kg	1.1 U	1.1 U	0.93 U	12 U	12 U	4.5 U	6.1 U
gamma-BHC (lindane)	ug/kg	2.1 U	2.2 U	1.9 U	30 U	31 U	9.1 U	12 U
gamma-Chlordane	ug/kg	1.5 U	1.5 U	1.3 U	16 U	16 U	6.2 U	8.5 U
Heptachlor	ug/kg	1.9 U	1.9 U	1.7 U	8.2 U	8.4 U	8.0 U	11 U
Heptachlor epoxide	ug/kg	1.7 U	1.7 U	1.5 U	25 U	26 U	7.3 U	9.9 U
Methoxychlor	ug/kg	7.8 U	8.0 UJ	6.9 U	13 U	20 NJ	33 U	45 U
Toxaphene	ug/kg	30 U	30 U	26 U	390 U	400 U	130 U	170 U
Herbicides								
2,4,5-T	ug/kg	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/kg	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	-	-	-	-	-	-	-

Table 12

Summary of Analytical Results
Soil/ Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-130**	**SS-130**	**SS-131**	**SS-132**	**SS-132**	**SS-133**	**SS-134**
Sample ID:		**SS-38443-102918-JC-130**	**SS-38443-102918-JC-114**	**SS-38443-102918-JC-131**	**S-38443-110817-BW-031**	**S-38443-110817-BW-032**	**SS-38443-102918-JC-133**	**SS-38443-102918-JC-134**
Sample Date:		**10/29/2018**	**10/29/2018**	**10/29/2018**	**11/8/2017**	**11/8/2017**	**10/29/2018**	**10/29/2018**
Sample Depth:		**0.25-2.25 ft BGS**	**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0.7-2.7 ft BGS**	**0.7-2.7 ft BGS**	**0.5-2.5 ft BGS**	**0.92-2.92 ft BGS**
			Duplicate			**Duplicate**		
Parameters	**Units**							
Petroleum Products								
Total Petroleum Hydrocarbons - Extractable (DRO)	ug/kg	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons - Purgeable (GRO)	ug/kg	-	-	-	-	-	-	-
Dioxin/Furans								
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Asbestos								
Asbestos	%	-	-	-	-	-	-	-
Chrysotile asbestos	%	-	-	-	-	-	-	-
Geotechnical								
Coarse sand	%	-	-	-	-	-	-	-
Fine sand	%	-	-	-	-	-	-	-
Fines	%	-	-	-	-	-	-	-
Gravel	%	-	-	-	-	-	-	-
Medium sand	%	-	-	-	-	-	-	-
Sand	%	-	-	-	-	-	-	-
Sieve, #4	% passed	-	-	-	-	-	-	-
Sieve, #10	% passed	-	-	-	-	-	-	-
Sieve, #20	% passed	-	-	-	-	-	-	-

Table 12

Summary of Analytical Results
Soil/ Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-130**	**SS-130**	**SS-131**	**SS-132**	**SS-132**	**SS-133**	**SS-134**
Sample ID:		**SS-38443-102918-JC-130**	**SS-38443-102918-JC-114**	**SS-38443-102918-JC-131**	**S-38443-110817-BW-031**	**S-38443-110817-BW-032**	**SS-38443-102918-JC-133**	**SS-38443-102918-JC-134**
Sample Date:		**10/29/2018**	**10/29/2018**	**10/29/2018**	**11/8/2017**	**11/8/2017**	**10/29/2018**	**10/29/2018**
Sample Depth:		**0.25-2.25 ft BGS**	**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0.7-2.7 ft BGS**	**0.7-2.7 ft BGS**	**0.5-2.5 ft BGS**	**0.92-2.92 ft BGS**
			Duplicate			**Duplicate**		
Parameters	**Units**							
Sieve, #40	% passed	-	-	-	-	-	-	-
Sieve, #60	% passed	-	-	-	-	-	-	-
Sieve, #80	% passed	-	-	-	-	-	-	-
Sieve, #100	% passed	-	-	-	-	-	-	-
Sieve, #200	% passed	-	-	-	-	-	-	-
Sieve, 0.375 inch	% passed	-	-	-	-	-	-	-
Sieve, 0.75 inch	% passed	-	-	-	-	-	-	-
Sieve, 1 inch	% passed	-	-	-	-	-	-	-
Sieve, 1.5 inch	% passed	-	-	-	-	-	-	-
Sieve, 2 inch	% passed	-	-	-	-	-	-	-
Sieve, 3 inch	% passed	-	-	-	-	-	-	-
General Chemistry								
Cyanide (total)	mg/kg	0.23 U	0.24 U	0.20 U	0.49 U	0.49 U	0.21 U	2.8 U
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-

Notes
< - Less than reported value.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 12

Summary of Analytical Results
Soil/ Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-135**	**SS-136**	**SS-137**	**SS-141**	**SS-143**	**SS-171-AS**	**SS-172-AS**
Sample ID:		**SS-38443-102918-JC-135**	**SS-38443-102918-JC-136**	**SS-38443-102918-JC-137**	**SS-38443-102918-JC-141**	**SS-38443-102918-JC-143**	**SS-38443-102918-JC-171**	**SS-38443-102918-JC-172**
Sample Date:		**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**
Sample Depth:		**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0.17-2.17 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-0.5 ft BGS**	**0.17-0.67 ft BGS**
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/kg	18 U	24 U	1.2 U	1.1 U	0.82 U	-	-
1,1,2,2-Tetrachloroethane	ug/kg	18 U	24 U	R	R	1.4 U	-	-
1,1,2-Trichloroethane	ug/kg	17 U	22 U	1.6 U	1.5 U	1.1 U	-	-
1,1-Dichloroethane	ug/kg	12 U	15 U	0.99 U	0.91 U	0.69 U	-	-
1,1-Dichloroethene	ug/kg	19 U	26 U	1.3 U	1.2 U	0.90 U	-	-
1,2,4-Trichlorobenzene	ug/kg	170 U	230 U	R	R	0.57 U	-	-
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	110 U	150 U	R	R	3.6 U	-	-
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	100 U	130 U	1.1 U	1.0 U	0.77 U	-	-
1,2-Dichlorobenzene	ug/kg	27 U	36 U	R	R	1.1 U	-	-
1,2-Dichloroethane	ug/kg	16 U	20 U	1.1 U	1.0 U	0.77 U	-	-
1,2-Dichloropropane	ug/kg	10 U	14 U	1.2 U	1.1 U	0.85 U	-	-
1,3-Dichlorobenzene	ug/kg	27 U	36 U	R	R	0.81 U	-	-
1,4-Dichlorobenzene	ug/kg	22 U	29 U	R	R	0.88 U	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	200 U	270 U	17 J	14 J	12 J	-	-
2-Hexanone	ug/kg	340 U	450 U	5.8 U	5.4 U	4.1 U	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	310 U	410 U	5.3 U	4.9 U	3.7 U	-	-
Acetone	ug/kg	320 U	420 U	30 U	28 U	21 U	-	-
Benzene	ug/kg	14 J	14 U	1.3 J	0.92 U	0.70 U	-	-
Bromodichloromethane	ug/kg	36 U	48 U	0.97 U	0.89 U	0.68 U	-	-
Bromoform	ug/kg	140 U	180 U	3.4 U	3.1 U	2.4 U	-	-
Bromomethane (Methyl bromide)	ug/kg	210 U	280 U	1.4 U	1.3 U	0.98 U	-	-
Carbon disulfide	ug/kg	140 U	180 U	1.7 U	1.5 U	1.2 U	-	-
Carbon tetrachloride	ug/kg	23 U	31 U	4.6 U	4.3 U	3.2 U	-	-
Chlorobenzene	ug/kg	45 U	60 U	1.3 U	1.2 U	0.91 U	-	-
Chloroethane	ug/kg	190 U	260 U	1.7 U	1.6 U	1.2 U	-	-
Chloroform (Trichloromethane)	ug/kg	12 U	15 U	1.1 U	1.0 U	0.79 U	-	-
Chloromethane (Methyl chloride)	ug/kg	85 U	110 U	1.5 U	1.4 U	1.0 U	-	-
cis-1,2-Dichloroethene	ug/kg	12 U	690	0.93 U	0.85 U	0.65 U	-	-
cis-1,3-Dichloropropene	ug/kg	48 U	63 U	2.0 U	1.9 U	1.4 U	-	-
Cyclohexane	ug/kg	210 U	280 U	2.0 U	1.8 U	1.4 U	-	-
Dibromochloromethane	ug/kg	150 U	200 U	4.0 U	3.6 U	2.8 U	-	-
Dichlorodifluoromethane (CFC-12)	ug/kg	69 U	90 U	1.3 U	1.2 U	0.94 U	-	-
Ethylbenzene	ug/kg	16 U	33 U	1.5 U	1.4 U	1.0 U	-	-
Isopropyl benzene	ug/kg	49 U	85 J	1.2 U	1.1 U	0.83 U	-	-
Methyl acetate	ug/kg	680 U	900 U	4.8 U	4.5 U	3.4 U	-	-
Methyl cyclohexane	ug/kg	85 U	110 U	1.7 U	1.6 U	1.2 U	-	-
Methyl tert butyl ether (MTBE)	ug/kg	48 U	63 U	1.2 U	1.1 U	0.82 U	-	-
Methylene chloride	ug/kg	500 U	650 U	17 U	16 U	12 U	-	-
Styrene	ug/kg	16 U	20 U	1.7 U	1.5 U	1.2 U	-	-
Tetrachloroethene	ug/kg	99 J	26 U	4.0 J	2.6 J	0.73 U	-	-
Toluene	ug/kg	67 U	110 U	1.5 J	1.0 U	0.77 U	-	-
trans-1,2-Dichloroethene	ug/kg	19 U	56 J	0.66 U	0.61 U	0.46 U	-	-
trans-1,3-Dichloropropene	ug/kg	140 U	180 U	1.5 U	1.4 U	1.0 U	-	-
Trichloroethene	ug/kg	3000	700	8.1	3.7 J	0.63 U	-	-
Trichlorofluoromethane (CFC-11)	ug/kg	60 U	78 U	1.5 U	1.4 U	1.1 U	-	-

Table 12

Summary of Analytical Results
Soil/ Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-135**	**SS-136**	**SS-137**	**SS-141**	**SS-143**	**SS-171-AS**	**SS-172-AS**
Sample ID:		**SS-38443-102918-JC-135**	**SS-38443-102918-JC-136**	**SS-38443-102918-JC-137**	**SS-38443-102918-JC-141**	**SS-38443-102918-JC-143**	**SS-38443-102918-JC-171**	**SS-38443-102918-JC-172**
Sample Date:		**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**
Sample Depth:		**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0.17-2.17 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-0.5 ft BGS**	**0.17-0.67 ft BGS**
Parameters	**Units**							
Trifluorotrichloroethane (CFC-113)	ug/kg	87 U	110 U	1.8 U	1.7 U	1.3 U	-	-
Vinyl chloride	ug/kg	13 U	54 J	1.2 U	1.1 U	0.83 U	-	-
Xylenes (total)	ug/kg	30 U	230 J	2.3 U	2.1 U	1.6 U	-	-
Semi-Volatiles								
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	11 UJ	160 U	13 U	22 U	11 U	-	-
2,4,5-Trichlorophenol	ug/kg	79 U	1100 U	86 U	150 U	73 U	-	-
2,4,6-Trichlorophenol	ug/kg	73 U	990 U	80 U	140 U	67 U	-	-
2,4-Dichlorophenol	ug/kg	50 U	680 U	55 U	95 U	46 U	-	-
2,4-Dimethylphenol	ug/kg	46 U	620 U	50 U	87 U	42 U	-	-
2,4-Dinitrophenol	ug/kg	160 U	2200 U	180 U	310 U	150 U	-	-
2,4-Dinitrotoluene	ug/kg	71 U	960 U	78 U	130 U	65 U	-	-
2,6-Dinitrotoluene	ug/kg	64 U	870 U	70 U	120 U	59 U	-	-
2-Chloronaphthalene	ug/kg	16 U	220 U	18 U	30 U	15 U	-	-
2-Chlorophenol	ug/kg	11 U	160 U	13 U	22 U	11 U	-	-
2-Methylnaphthalene	ug/kg	69	120 J	87	160	14 J	-	-
2-Methylphenol	ug/kg	36 U	480 U	39 U	67 U	33 U	-	-
2-Nitroaniline	ug/kg	46 U	620 U	50 U	87 U	42 U	-	-
2-Nitrophenol	ug/kg	15 U	200 U	16 U	28 U	14 U	-	-
3&4-Methylphenol	ug/kg	33 U	450 U	36 U	63 U	31 U	-	-
3,3'-Dichlorobenzidine	ug/kg	49 U	670 U	54 U	93 U	45 U	-	-
3-Nitroaniline	ug/kg	56 U	760 U	61 U	110 U	52 U	-	-
4,6-Dinitro-2-methylphenol	ug/kg	92 U	1200 U	100 U	170 U	84 U	-	-
4-Bromophenyl phenyl ether	ug/kg	16 U	220 U	18 U	30 U	15 U	-	-
4-Chloro-3-methylphenol	ug/kg	52 U	700 U	56 U	98 U	47 U	-	-
4-Chloroaniline	ug/kg	34 U	470 U	38 U	65 U	32 U	-	-
4-Chlorophenyl phenyl ether	ug/kg	16 U	220 U	18 U	30 U	15 U	-	-
4-Methylphenol	ug/kg	-	-	-	-	-	-	-
4-Nitroaniline	ug/kg	69 U	930 U	75 U	130 U	63 U	-	-
4-Nitrophenol	ug/kg	110 U	1500 U	120 U	200 U	99 U	-	-
Acenaphthene	ug/kg	4.9 J	44 U	3.6 U	19 J	3.0 U	-	-
Acenaphthylene	ug/kg	5.8 J	62 U	6.8 J	91	5.7 J	-	-
Acetophenone	ug/kg	13 U	170 U	110 J	24 U	12 U	-	-
Anthracene	ug/kg	11 J	37 U	4.8 J	110	7.4 J	-	-
Atrazine	ug/kg	41 U	560 U	45 U	78 U	38 U	-	-
Benzaldehyde	ug/kg	26 U	360 U	29 U	50 U	24 U	-	-
Benzo(a)anthracene	ug/kg	79	260	36	600	34	-	-
Benzo(a)pyrene	ug/kg	88	320	41	690	34	-	-
Benzo(b)fluoranthene	ug/kg	160	370	83	1100	57	-	-
Benzo(g,h,i)perylene	ug/kg	77	220 J	61	570	46	-	-
Benzo(k)fluoranthene	ug/kg	41	180 J	21	340	17	-	-
Biphenyl (1,1-Biphenyl)	ug/kg	19 U	260 U	21 U	37 U	18 U	-	-
bis(2-Chloroethoxy)methane	ug/kg	14 U	190 U	15 U	26 U	13 U	-	-
bis(2-Chloroethyl)ether	ug/kg	14 U	190 U	15 U	26 U	13 U	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	58 U	17000	64 U	110 J	140	-	-
Butyl benzylphthalate (BBP)	ug/kg	25 U	340 U	28 U	48 U	23 U	-	-

Table 12

Summary of Analytical Results
Soil/ Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-135**	**SS-136**	**SS-137**	**SS-141**	**SS-143**	**SS-171-AS**	**SS-172-AS**
Sample ID:		**SS-38443-102918-JC-135**	**SS-38443-102918-JC-136**	**SS-38443-102918-JC-137**	**SS-38443-102918-JC-141**	**SS-38443-102918-JC-143**	**SS-38443-102918-JC-171**	**SS-38443-102918-JC-172**
Sample Date:		**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**
Sample Depth:		**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0.17-2.17 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-0.5 ft BGS**	**0.17-0.67 ft BGS**
Parameters	**Units**							
Caprolactam	ug/kg	86 U	1200 U	94 U	160 U	79 U	-	-
Carbazole	ug/kg	22 U	290 U	24 U	50 J	20 U	-	-
Chrysene	ug/kg	110	360	78	730	44	-	-
Dibenz(a,h)anthracene	ug/kg	24	110 U	8.7 U	140	7.3 U	-	-
Dibenzofuran	ug/kg	20 J	200 U	16 J	50 J	14 U	-	-
Diethyl phthalate	ug/kg	36 U	480 U	39 U	67 U	33 U	-	-
Dimethyl phthalate	ug/kg	16 U	220 U	18 U	30 U	15 U	-	-
Di-n-butylphthalate (DBP)	ug/kg	25 U	340 U	28 J	48 U	23 U	-	-
Di-n-octyl phthalate (DnOP)	ug/kg	32 U	430 U	35 U	61 U	30 U	-	-
Fluoranthene	ug/kg	190	390	51	1000	66	-	-
Fluorene	ug/kg	4.8 J	43 U	3.4 U	20 J	2.9 U	-	-
Hexachlorobenzene	ug/kg	3.3 U	44 U	3.6 U	6.2 U	3.0 U	-	-
Hexachlorobutadiene	ug/kg	14 U	190 U	15 U	26 U	13 U	-	-
Hexachlorocyclopentadiene	ug/kg	71 U	960 U	78 U	130 U	65 U	-	-
Hexachloroethane	ug/kg	10 U	140 U	11 U	20 U	9.5 U	-	-
Indeno(1,2,3-cd)pyrene	ug/kg	69	240	38	460	29	-	-
Isophorone	ug/kg	14 U	190 U	15 U	26 U	13 U	-	-
Naphthalene	ug/kg	41	130 J	78	120	9.8 J	-	-
Nitrobenzene	ug/kg	15 U	200 U	16 U	28 U	14 U	-	-
N-Nitrosodi-n-propylamine	ug/kg	13 UJ	170 U	14 U	24 U	12 U	-	-
N-Nitrosodiphenylamine	ug/kg	14 U	190 U	15 U	26 U	13 U	-	-
Pentachlorophenol	ug/kg	67 U	900 U	73 U	130 U	61 U	-	-
Phenanthrene	ug/kg	140	250	77	480	35	-	-
Phenol	ug/kg	9.2 U	120 U	10 U	17 U	8.4 U	-	-
Pyrene	ug/kg	160	330	39	840	57	-	-
Metals								
Aluminum	mg/kg	5000	10000	8600	6400	4700	-	-
Antimony	mg/kg	0.29 J	12	4.4	4.8	1.0	-	-
Arsenic	mg/kg	6.2	24	19	9.5	9.2	-	-
Barium	mg/kg	54	2900	720	760	100	-	-
Beryllium	mg/kg	0.38	1.0	2.2	0.63	0.30	-	-
Cadmium	mg/kg	0.27	16	3.5	3.8	1.4	-	-
Calcium	mg/kg	100000	79000	17000	100000	120000	-	-
Chromium	mg/kg	10	210	65	37	13	-	-
Chromium III (trivalent)	mg/kg	9.0	210	65	37	12	-	-
Chromium VI (hexavalent)	mg/kg	0.99	1.5 U	1.5 U	1.3 U	0.90	-	-
Cobalt	mg/kg	4.2	29	24	9.0	3.9	-	-
Copper	mg/kg	17	2900	730	620	130	-	-
Iron	mg/kg	12000	100000	110000	26000	15000	-	-
Lead	mg/kg	21	2200	490	720	220	-	-
Lead - coarse fraction	mg/kg	-	2000	-	1600	-	-	-
Lead - fine fraction	mg/kg	-	2700	-	2000	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	2200	-	1700	-	-	-
Magnesium	mg/kg	42000	24000	3200	42000	37000	-	-
Manganese	mg/kg	320	820	670	450	350	-	-

Table 12

Summary of Analytical Results
Soil/ Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-135**	**SS-136**	**SS-137**	**SS-141**	**SS-143**	**SS-171-AS**	**SS-172-AS**
Sample ID:		**SS-38443-102918-JC-135**	**SS-38443-102918-JC-136**	**SS-38443-102918-JC-137**	**SS-38443-102918-JC-141**	**SS-38443-102918-JC-143**	**SS-38443-102918-JC-171**	**SS-38443-102918-JC-172**
Sample Date:		**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**
Sample Depth:		**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0.17-2.17 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-0.5 ft BGS**	**0.17-0.67 ft BGS**
Parameters	**Units**							
Mercury	mg/kg	0.051 J	0.66	0.28	0.19	0.021 J	-	-
Nickel	mg/kg	10	150	94	79	16	-	-
Potassium	mg/kg	630	1000	1300	640	950	-	-
Selenium	mg/kg	0.47 J	2.0	2.3	0.80 J	0.37 J	-	-
Silver	mg/kg	0.060 J	6.3	0.76	8.2	0.14 J	-	-
Sodium	mg/kg	130 J	560	390	210	220	-	-
Thallium	mg/kg	0.13 J	0.22	0.35	0.21	0.096 J	-	-
Vanadium	mg/kg	16	50	29	17	10	-	-
Zinc	mg/kg	45	5600	1600	920	890	-	-
PCBs								
Aroclor-1016 (PCB-1016)	ug/kg	25 U	140 U	29 U	240 U	23 U	-	-
Aroclor-1221 (PCB-1221)	ug/kg	28 U	150 U	32 U	260 U	25 U	-	-
Aroclor-1232 (PCB-1232)	ug/kg	26 U	140 U	30 U	1100	24 U	-	-
Aroclor-1242 (PCB-1242)	ug/kg	22 U	1100	25 U	200 U	20 U	-	-
Aroclor-1248 (PCB-1248)	ug/kg	28 U	150 U	32 U	260 U	25 U	-	-
Aroclor-1254 (PCB-1254)	ug/kg	26 U	1800	30 U	410 J	24 U	-	-
Aroclor-1260 (PCB-1260)	ug/kg	170	140 U	29 U	240 U	44 J	-	-
Pesticides								
4,4'-DDD	ug/kg	8.5 U	9.2 U	97 U	80 U	31 U	-	-
4,4'-DDE	ug/kg	8.7 U	20 NJ	99 U	81 U	32 U	-	-
4,4'-DDT	ug/kg	6.5 U	7.0 U	74 U	61 U	24 U	-	-
Aldrin	ug/kg	4.4 U	4.8 U	51 U	41 U	16 U	-	-
alpha-BHC	ug/kg	5.2 U	5.7 U	60 U	49 U	19 U	-	-
alpha-Chlordane	ug/kg	8.6 U	9.4 U	99 U	81 U	32 U	-	-
beta-BHC	ug/kg	9.9 U	11 U	110 U	93 U	36 U	-	-
delta-BHC	ug/kg	9.7 U	42 U	110 U	91 U	36 U	-	-
Dieldrin	ug/kg	6.3 U	14 NJ	72 U	59 U	23 U	-	-
Endosulfan I	ug/kg	6.9 U	7.5 U	79 U	65 U	25 U	-	-
Endosulfan II	ug/kg	8.5 U	9.2 U	97 U	80 U	31 U	-	-
Endosulfan sulfate	ug/kg	7.3 U	32 U	84 U	69 U	27 U	-	-
Endrin	ug/kg	11 U	12 U	120 U	100 U	40 U	-	-
Endrin aldehyde	ug/kg	7.5 U	33 U	86 U	70 U	28 U	-	-
Endrin ketone	ug/kg	5.1 U	5.5 U	58 U	48 U	19 U	-	-
gamma-BHC (lindane)	ug/kg	10 U	11 U	120 U	96 U	38 U	-	-
gamma-Chlordane	ug/kg	7.1 U	7.7 U	81 U	66 U	26 U	-	-
Heptachlor	ug/kg	9.1 U	9.8 U	100 U	85 U	33 U	-	-
Heptachlor epoxide	ug/kg	8.3 U	9.6 NJ	95 U	77 U	30 U	-	-
Methoxychlor	ug/kg	38 U	41 UJ	430 U	350 U	140 U	-	-
Toxaphene	ug/kg	140 U	160 U	1600 U	1300 U	530 U	-	-
Herbicides								
2,4,5-T	ug/kg	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/kg	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	-	-	-	-	-	-	-

Table 12

Summary of Analytical Results
Soil/ Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-135**	**SS-136**	**SS-137**	**SS-141**	**SS-143**	**SS-171-AS**	**SS-172-AS**
Sample ID:		**SS-38443-102918-JC-135**	**SS-38443-102918-JC-136**	**SS-38443-102918-JC-137**	**SS-38443-102918-JC-141**	**SS-38443-102918-JC-143**	**SS-38443-102918-JC-171**	**SS-38443-102918-JC-172**
Sample Date:		**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**
Sample Depth:		**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0.17-2.17 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-0.5 ft BGS**	**0.17-0.67 ft BGS**
Parameters	**Units**							
Petroleum Products								
Total Petroleum Hydrocarbons - Extractable (DRO)	ug/kg	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons - Purgeable (GRO)	ug/kg	-	-	-	-	-	-	-
Dioxin/Furans								
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Asbestos								
Asbestos	%	-	-	-	-	-	-	ND
Chrysotile asbestos	%	-	-	-	-	-	0.25 <	-
Geotechnical								
Coarse sand	%	-	-	-	-	-	-	-
Fine sand	%	-	-	-	-	-	-	-
Fines	%	-	-	-	-	-	-	-
Gravel	%	-	-	-	-	-	-	-
Medium sand	%	-	-	-	-	-	-	-
Sand	%	-	-	-	-	-	-	-
Sieve, #4	% passed	-	-	-	-	-	-	-
Sieve, #10	% passed	-	-	-	-	-	-	-
Sieve, #20	% passed	-	-	-	-	-	-	-

Table 12

Summary of Analytical Results
Soil/ Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-135**	**SS-136**	**SS-137**	**SS-141**	**SS-143**	**SS-171-AS**	**SS-172-AS**
Sample ID:		**SS-38443-102918-JC-135**	**SS-38443-102918-JC-136**	**SS-38443-102918-JC-137**	**SS-38443-102918-JC-141**	**SS-38443-102918-JC-143**	**SS-38443-102918-JC-171**	**SS-38443-102918-JC-172**
Sample Date:		**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**
Sample Depth:		**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0.17-2.17 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-0.5 ft BGS**	**0.17-0.67 ft BGS**
Parameters	**Units**							
Sieve, #40	% passed	-	-	-	-	-	-	-
Sieve, #60	% passed	-	-	-	-	-	-	-
Sieve, #80	% passed	-	-	-	-	-	-	-
Sieve, #100	% passed	-	-	-	-	-	-	-
Sieve, #200	% passed	-	-	-	-	-	-	-
Sieve, 0.375 inch	% passed	-	-	-	-	-	-	-
Sieve, 0.75 inch	% passed	-	-	-	-	-	-	-
Sieve, 1 inch	% passed	-	-	-	-	-	-	-
Sieve, 1.5 inch	% passed	-	-	-	-	-	-	-
Sieve, 2 inch	% passed	-	-	-	-	-	-	-
Sieve, 3 inch	% passed	-	-	-	-	-	-	-
General Chemistry								
Cyanide (total)	mg/kg	0.22 U	41	6.5	0.62	0.20 U	-	-
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-

Notes
< - Less than reported value.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 12

Summary of Analytical Results
Soil/ Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-173-AS**	**TT-23**	**TT-23**	**TT-43**	**TT-43**	**VAS-4**
Sample ID:		**SS-38443-102918-JC-173**	**S-38443-100608-KMV-052**	**S-38443-100608-KMV-053**	**S-38443-110817-BW-033**	**TT-43**	**S-38443-110608-KMV-201**
Sample Date:		**10/29/2018**	**10/6/2008**	**10/6/2008**	**11/8/2017**	**11/8/2017**	**11/6/2008**
Sample Depth:		**0-0.5 ft BGS**	**7 ft BGS**	**18 ft BGS**	**6-8 ft BGS**	**8-10 ft BGS**	**24-25 ft BGS**
Parameters	**Units**						
Volatiles							
1,1,1-Trichloroethane	ug/kg	-	8.4 U	4.7 U	59 U	-	240 U
1,1,2,2-Tetrachloroethane	ug/kg	-	8.4 UJ	4.7 U	50 UJ	-	240 UJ
1,1,2-Trichloroethane	ug/kg	-	8.4 U	4.7 U	48 U	-	240 UJ
1,1-Dichloroethane	ug/kg	-	8.4 U	4.7 U	65 U	-	240 U
1,1-Dichloroethene	ug/kg	-	8.4 U	4.7 U	75 U	-	240 U
1,2,4-Trichlorobenzene	ug/kg	-	8.4 UJ	4.7 U	54 U	-	240 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	-	17 UJ	9.4 U	100 U	-	480 U
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	-	8.4 U	4.7 U	48 U	-	240 U
1,2-Dichlorobenzene	ug/kg	-	8.4 UJ	4.7 U	38 U	-	190 J
1,2-Dichloroethane	ug/kg	-	8.4 U	4.7 U	63 U	-	240 U
1,2-Dichloropropane	ug/kg	-	8.4 U	4.7 U	63 U	-	240 U
1,3-Dichlorobenzene	ug/kg	-	8.4 UJ	4.7 U	79 U	-	240 U
1,4-Dichlorobenzene	ug/kg	-	8.4 UJ	4.7 U	56 U	-	45 J
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	-	33 U	19 U	100 U	-	970 U
2-Hexanone	ug/kg	-	33 U	19 U	180 U	-	970 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	-	33 U	19 U	84 U	-	970 UJ
Acetone	ug/kg	-	33 U	19 U	200 U	-	970 U
Benzene	ug/kg	-	8.4 U	4.7 U	50 U	-	240 U
Bromodichloromethane	ug/kg	-	8.4 U	4.7 U	38 U	-	240 U
Bromoform	ug/kg	-	8.4 U	4.7 U	48 U	-	240 U
Bromomethane (Methyl bromide)	ug/kg	-	8.4 U	4.7 U	59 UJ	-	240 UJ
Carbon disulfide	ug/kg	-	8.4 U	4.7 U	38 U	-	240 U
Carbon tetrachloride	ug/kg	-	8.4 U	4.7 U	56 U	-	240 U
Chlorobenzene	ug/kg	-	8.4 U	4.7 U	63 U	-	240 U
Chloroethane	ug/kg	-	8.4 U	4.7 U	59 U	-	240 U
Chloroform (Trichloromethane)	ug/kg	-	8.4 U	4.7 U	50 U	-	240 U
Chloromethane (Methyl chloride)	ug/kg	-	8.4 U	4.7 U	38 U	-	240 U
cis-1,2-Dichloroethene	ug/kg	-	16	4.7 U	1000	-	240 U
cis-1,3-Dichloropropene	ug/kg	-	8.4 U	4.7 U	48 U	-	240 U
Cyclohexane	ug/kg	-	17 U	9.4 U	63 U	-	480 U
Dibromochloromethane	ug/kg	-	8.4 U	4.7 U	71 U	-	240 U
Dichlorodifluoromethane (CFC-12)	ug/kg	-	8.4 U	4.7 U	46 U	-	240 U
Ethylbenzene	ug/kg	-	8.4 U	4.7 U	73 U	-	240 U
Isopropyl benzene	ug/kg	-	8.4 U	4.7 U	71 U	-	240 U
Methyl acetate	ug/kg	-	17 U	9.4 U	160 U	-	480 U
Methyl cyclohexane	ug/kg	-	17 U	9.4 U	84 J	-	230 J
Methyl tert butyl ether (MTBE)	ug/kg	-	33 U	19 U	54 U	-	970 U
Methylene chloride	ug/kg	-	8.4 U	4.7 U	560	-	240 U
Styrene	ug/kg	-	8.4 U	4.7 U	21 U	-	240 UJ
Tetrachloroethene	ug/kg	-	8.4 U	4.7 U	44 U	-	240 U
Toluene	ug/kg	-	8.4 U	4.7 U	110 J	-	240 U
trans-1,2-Dichloroethene	ug/kg	-	8.4 U	4.7 U	73 U	-	240 U
trans-1,3-Dichloropropene	ug/kg	-	8.4 U	4.7 U	31 U	-	240 U
Trichloroethene	ug/kg	-	31	0.62 J	5200	-	240 U
Trichlorofluoromethane (CFC-11)	ug/kg	-	8.4 U	4.7 U	71 U	-	240 U

Table 12

Summary of Analytical Results
Soil/ Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-173-AS**	**TT-23**	**TT-23**	**TT-43**	**TT-43**	**VAS-4**
Sample ID:		**SS-38443-102918-JC-173**	**S-38443-100608-KMV-052**	**S-38443-100608-KMV-053**	**S-38443-110817-BW-033**	**TT-43**	**S-38443-110608-KMV-201**
Sample Date:		**10/29/2018**	**10/6/2008**	**10/6/2008**	**11/8/2017**	**11/8/2017**	**11/6/2008**
Sample Depth:		**0-0.5 ft BGS**	**7 ft BGS**	**18 ft BGS**	**6-8 ft BGS**	**8-10 ft BGS**	**24-25 ft BGS**
Parameters	**Units**						
Trifluorotrichloroethane (CFC-113)	ug/kg	-	8.4 U	4.7 U	48 U	-	240 U
Vinyl chloride	ug/kg	-	8.4 U	4.7 U	36 U	-	240 U
Xylenes (total)	ug/kg	-	17 U	1.2 J	230 J	-	480 U
Semi-Volatiles							
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	-	150 U	110 U	130 U	-	-
2,4,5-Trichlorophenol	ug/kg	-	220 U	160 U	350 U	-	-
2,4,6-Trichlorophenol	ug/kg	-	220 U	160 U	130 U	-	-
2,4-Dichlorophenol	ug/kg	-	220 U	160 U	280 U	-	-
2,4-Dimethylphenol	ug/kg	-	220 U	160 U	280 U	-	-
2,4-Dinitrophenol	ug/kg	-	490 U	350 U	300 U	-	-
2,4-Dinitrotoluene	ug/kg	-	300 U	210 U	240 U	-	-
2,6-Dinitrotoluene	ug/kg	-	300 U	210 U	300 U	-	-
2-Chloronaphthalene	ug/kg	-	74 U	54 U	6.3 U	-	-
2-Chlorophenol	ug/kg	-	74 U	54 U	120 U	-	-
2-Methylnaphthalene	ug/kg	-	9.9 U	7.2 U	460	-	-
2-Methylphenol	ug/kg	-	300 UJ	210 UJ	160 U	-	-
2-Nitroaniline	ug/kg	-	300 U	210 U	130 U	-	-
2-Nitrophenol	ug/kg	-	74 U	54 U	120 U	-	-
3&4-Methylphenol	ug/kg	-	-	-	280 U	-	-
3,3'-Dichlorobenzidine	ug/kg	-	150 U	110 U	250 U	-	-
3-Nitroaniline	ug/kg	-	300 U	210 U	230 U	-	-
4,6-Dinitro-2-methylphenol	ug/kg	-	220 U	160 U	130 U	-	-
4-Bromophenyl phenyl ether	ug/kg	-	74 U	54 U	180 U	-	-
4-Chloro-3-methylphenol	ug/kg	-	220 U	160 U	300 U	-	-
4-Chloroaniline	ug/kg	-	220 U	160 U	240 U	-	-
4-Chlorophenyl phenyl ether	ug/kg	-	74 U	54 U	180 U	-	-
4-Methylphenol	ug/kg	-	300 U	210 U	-	-	-
4-Nitroaniline	ug/kg	-	300 U	210 U	370 U	-	-
4-Nitrophenol	ug/kg	-	490 U	350 U	240 U	-	-
Acenaphthene	ug/kg	-	9.9 U	7.2 U	770	-	-
Acenaphthylene	ug/kg	-	9.9 U	7.2 U	95	-	-
Acetophenone	ug/kg	-	150 U	110 U	130 U	-	-
Anthracene	ug/kg	-	9.9 U	7.2 U	2000	-	-
Atrazine	ug/kg	-	300 U	210 U	130 U	-	-
Benzaldehyde	ug/kg	-	150 U	110 U	170 U	-	-
Benzo(a)anthracene	ug/kg	-	9.9 U	7.2 U	4900	-	-
Benzo(a)pyrene	ug/kg	-	9.9 U	7.2 U	4200	-	-
Benzo(b)fluoranthene	ug/kg	-	9.9 U	7.2 U	6100	-	-
Benzo(g,h,i)perylene	ug/kg	-	9.9 U	7.2 U	3300	-	-
Benzo(k)fluoranthene	ug/kg	-	9.9 U	7.2 U	2100	-	-
Biphenyl (1,1-Biphenyl)	ug/kg	-	74 U	54 U	49 U	-	-
bis(2-Chloroethoxy)methane	ug/kg	-	150 U	110 U	310 U	-	-
bis(2-Chloroethyl)ether	ug/kg	-	150 U	110 U	28 U	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	-	74 U	54 U	380 J	-	-
Butyl benzylphthalate (BBP)	ug/kg	-	74 U	54 U	140 U	-	-

Table 12

Summary of Analytical Results
Soil/ Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-173-AS**	**TT-23**	**TT-23**	**TT-43**	**TT-43**	**VAS-4**
Sample ID:		**SS-38443-102918-JC-173**	**S-38443-100608-KMV-052**	**S-38443-100608-KMV-053**	**S-38443-110817-BW-033**	**TT-43**	**S-38443-110608-KMV-201**
Sample Date:		**10/29/2018**	**10/6/2008**	**10/6/2008**	**11/8/2017**	**11/8/2017**	**11/6/2008**
Sample Depth:		**0-0.5 ft BGS**	**7 ft BGS**	**18 ft BGS**	**6-8 ft BGS**	**8-10 ft BGS**	**24-25 ft BGS**
Parameters	**Units**						
Caprolactam	ug/kg	-	490 U	350 U	520 U	-	-
Carbazole	ug/kg	-	74 U	54 U	860	-	-
Chrysene	ug/kg	-	9.9 U	7.2 U	4800	-	-
Dibenz(a,h)anthracene	ug/kg	-	9.9 U	7.2 U	680	-	-
Dibenzofuran	ug/kg	-	74 U	54 U	600 J	-	-
Diethyl phthalate	ug/kg	-	74 U	54 U	430 J	-	-
Dimethyl phthalate	ug/kg	-	74 U	54 U	240 U	-	-
Di-n-butylphthalate (DBP)	ug/kg	-	74 U	54 U	320 J	-	-
Di-n-octyl phthalate (DnOP)	ug/kg	-	74 U	54 U	110 U	-	-
Fluoranthene	ug/kg	-	9.9 U	7.2 U	12000	-	-
Fluorene	ug/kg	-	9.9 U	7.2 U	750	-	-
Hexachlorobenzene	ug/kg	-	9.9 U	7.2 U	30 U	-	-
Hexachlorobutadiene	ug/kg	-	74 U	54 U	79 U	-	-
Hexachlorocyclopentadiene	ug/kg	-	490 U	350 U	110 U	-	-
Hexachloroethane	ug/kg	-	74 U	54 U	130 U	-	-
Indeno(1,2,3-cd)pyrene	ug/kg	-	9.9 U	7.2 U	2600	-	-
Isophorone	ug/kg	-	74 U	54 U	180 U	-	-
Naphthalene	ug/kg	-	9.9 U	7.2 U	470	-	-
Nitrobenzene	ug/kg	-	150 U	110 U	31 U	-	-
N-Nitrosodi-n-propylamine	ug/kg	-	74 U	54 U	89 U	-	-
N-Nitrosodiphenylamine	ug/kg	-	74 U	54 U	300 U	-	-
Pentachlorophenol	ug/kg	-	220 U	160 U	130 U	-	-
Phenanthrene	ug/kg	-	9.9 U	7.2 U	7800	-	-
Phenol	ug/kg	-	74 U	54 U	220 J	-	-
Pyrene	ug/kg	-	9.9 U	7.2 U	9700	-	-
Metals							
Aluminum	mg/kg	-	21700	3450	7200	-	-
Antimony	mg/kg	-	70.1 J	6.4 UJ	38 J	-	-
Arsenic	mg/kg	-	20.1	5.3	15	-	-
Barium	mg/kg	-	3500	19.9 J	1100	-	-
Beryllium	mg/kg	-	0.60 J	0.54 U	1.1	-	-
Cadmium	mg/kg	-	3.3 J	0.22 J	5.6	-	-
Calcium	mg/kg	-	13500	53100	70000	-	-
Chromium	mg/kg	-	1080 J	7.8 J	52	-	-
Chromium III (trivalent)	mg/kg	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-
Cobalt	mg/kg	-	317	3.9 J	15	-	-
Copper	mg/kg	-	841 J	9.6 J	1000	-	-
Iron	mg/kg	-	23600	9260	27000	-	-
Lead	mg/kg	-	17700	4.3 J	2200	-	-
Lead - coarse fraction	mg/kg	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-
Magnesium	mg/kg	-	3060	32800	32000	-	-
Manganese	mg/kg	-	412 J	297 J	480	-	-

Table 12

Summary of Analytical Results
Soil/ Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-173-AS**	**TT-23**	**TT-23**	**TT-43**	**TT-43**	**VAS-4**
Sample ID:		**SS-38443-102918-JC-173**	**S-38443-100608-KMV-052**	**S-38443-100608-KMV-053**	**S-38443-110817-BW-033**	**TT-43**	**S-38443-110608-KMV-201**
Sample Date:		**10/29/2018**	**10/6/2008**	**10/6/2008**	**11/8/2017**	**11/8/2017**	**11/6/2008**
Sample Depth:		**0-0.5 ft BGS**	**7 ft BGS**	**18 ft BGS**	**6-8 ft BGS**	**8-10 ft BGS**	**24-25 ft BGS**
Parameters	**Units**						
Mercury	mg/kg	-	0.084 J	0.11 U	0.35	-	-
Nickel	mg/kg	-	45.5 J	11.2 J	60	-	-
Potassium	mg/kg	-	1680	560	800	-	-
Selenium	mg/kg	-	3.7 J	26.8 U	1.4	-	-
Silver	mg/kg	-	2.7	1.1 U	1.8	-	-
Sodium	mg/kg	-	2970	536 U	340	-	-
Thallium	mg/kg	-	3.7 U	0.20	0.31 J	-	-
Vanadium	mg/kg	-	42.4	10.5	21	-	-
Zinc	mg/kg	-	19600	33.4	1700	-	-
PCBs							
Aroclor-1016 (PCB-1016)	ug/kg	-	49 U	35 U	270 U	-	-
Aroclor-1221 (PCB-1221)	ug/kg	-	49 U	35 U	260 U	-	-
Aroclor-1232 (PCB-1232)	ug/kg	-	49 U	35 U	180 U	-	-
Aroclor-1242 (PCB-1242)	ug/kg	-	49 U	35 U	220 U	-	-
Aroclor-1248 (PCB-1248)	ug/kg	-	49 U	35 U	8600	-	-
Aroclor-1254 (PCB-1254)	ug/kg	-	49 UJ	35 UJ	160 U	-	-
Aroclor-1260 (PCB-1260)	ug/kg	-	49 UJ	35 UJ	540 J	-	-
Pesticides							
4,4'-DDD	ug/kg	-	13 U	9.1 U	74 U	-	-
4,4'-DDE	ug/kg	-	13 U	9.1 U	27 U	-	-
4,4'-DDT	ug/kg	-	13 UJ	9.1 UJ	38 NJ	-	-
Aldrin	ug/kg	-	13 U	9.1 U	54 U	-	-
alpha-BHC	ug/kg	-	13 U	9.1 U	36 U	-	-
alpha-Chlordane	ug/kg	-	13 U	9.1 U	85 U	-	-
beta-BHC	ug/kg	-	13 U	9.1 U	88 U	-	-
delta-BHC	ug/kg	-	13 U	9.1 U	29 U	-	-
Dieldrin	ug/kg	-	13 U	9.1 U	20 U	-	-
Endosulfan I	ug/kg	-	13 U	9.1 U	29 U	-	-
Endosulfan II	ug/kg	-	13 U	9.1 U	40 U	-	-
Endosulfan sulfate	ug/kg	-	13 U	9.1 U	27 U	-	-
Endrin	ug/kg	-	13 U	9.1 U	31 U	-	-
Endrin aldehyde	ug/kg	-	13 U	9.1 U	54 J	-	-
Endrin ketone	ug/kg	-	13 U	9.1 U	25 U	-	-
gamma-BHC (lindane)	ug/kg	-	13 U	9.1 U	65 U	-	-
gamma-Chlordane	ug/kg	-	13 U	9.1 U	34 U	-	-
Heptachlor	ug/kg	-	13 U	9.1 U	18 U	-	-
Heptachlor epoxide	ug/kg	-	13 U	9.1 U	54 U	-	-
Methoxychlor	ug/kg	-	24 U	18 U	27 U	-	-
Toxaphene	ug/kg	-	500 U	360 U	830 U	-	-
Herbicides							
2,4,5-T	ug/kg	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/kg	-	30 U	21 U	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	-	120 U	86 U	-	-	-

Table 12

Summary of Analytical Results
Soil/ Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-173-AS**	**TT-23**	**TT-23**	**TT-43**	**TT-43**	**VAS-4**
Sample ID:		**SS-38443-102918-JC-173**	**S-38443-100608-KMV-052**	**S-38443-100608-KMV-053**	**S-38443-110817-BW-033**	**TT-43**	**S-38443-110608-KMV-201**
Sample Date:		**10/29/2018**	**10/6/2008**	**10/6/2008**	**11/8/2017**	**11/8/2017**	**11/6/2008**
Sample Depth:		**0-0.5 ft BGS**	**7 ft BGS**	**18 ft BGS**	**6-8 ft BGS**	**8-10 ft BGS**	**24-25 ft BGS**
Parameters	**Units**						
Petroleum Products							
Total Petroleum Hydrocarbons - Extractable (DRO)	ug/kg	-	-	-	-	-	-
Total Petroleum Hydrocarbons - Purgeable (GRO)	ug/kg	-	-	-	-	-	-
Dioxin/Furans							
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	330	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	1400	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	410	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	300	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	17	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	130	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	9.3	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	59 J	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	35	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	3.8 U	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	30	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	24	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	10 J	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	47	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	55	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	28	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	5.7	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	880 J	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	600 J	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	830 J	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	360 J	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	1300 J	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	2500 J	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	1900 J	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	160 J	-	-
Asbestos							
Asbestos	%	ND	-	-	-	ND	-
Chrysotile asbestos	%	-	-	-	-	-	-
Geotechnical							
Coarse sand	%	-	-	-	-	-	-
Fine sand	%	-	-	-	-	-	-
Fines	%	-	-	-	-	-	-
Gravel	%	-	-	-	-	-	-
Medium sand	%	-	-	-	-	-	-
Sand	%	-	-	-	-	-	-
Sieve, #4	% passed	-	-	-	-	-	-
Sieve, #10	% passed	-	-	-	-	-	-
Sieve, #20	% passed	-	-	-	-	-	-

Table 12

Summary of Analytical Results
Soil/ Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-173-AS**	**TT-23**	**TT-23**	**TT-43**	**TT-43**	**VAS-4**
Sample ID:		**SS-38443-102918-JC-173**	**S-38443-100608-KMV-052**	**S-38443-100608-KMV-053**	**S-38443-110817-BW-033**	**TT-43**	**S-38443-110608-KMV-201**
Sample Date:		**10/29/2018**	**10/6/2008**	**10/6/2008**	**11/8/2017**	**11/8/2017**	**11/6/2008**
Sample Depth:		**0-0.5 ft BGS**	**7 ft BGS**	**18 ft BGS**	**6-8 ft BGS**	**8-10 ft BGS**	**24-25 ft BGS**
Parameters	**Units**						
Sieve, #40	% passed	-	-	-	-	-	-
Sieve, #60	% passed	-	-	-	-	-	-
Sieve, #80	% passed	-	-	-	-	-	-
Sieve, #100	% passed	-	-	-	-	-	-
Sieve, #200	% passed	-	-	-	-	-	-
Sieve, 0.375 inch	% passed	-	-	-	-	-	-
Sieve, 0.75 inch	% passed	-	-	-	-	-	-
Sieve, 1 inch	% passed	-	-	-	-	-	-
Sieve, 1.5 inch	% passed	-	-	-	-	-	-
Sieve, 2 inch	% passed	-	-	-	-	-	-
Sieve, 3 inch	% passed	-	-	-	-	-	-
General Chemistry							
Cyanide (total)	mg/kg	-	0.74 U	0.54 U	0.52 U	-	-
Fraction organic carbon (FOC)	%	-	-	-	-	-	-
Total solids	%	-	67.6	93.3	-	-	94.9

Notes
< - Less than reported value.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 13

Summary of Analytical Results
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH08-09**	**BH32-13**	**BH33-13**	**BH33-13**	**BH34-13**	**BH34-13**	**BH35-13**
Sample ID:		**S-38443-062009-DR-002**	**S-38443-070213-JC-079**	**S-38443-062613-JT-060**	**S-38443-062613-JT-061**	**S-38443-062713-JT-062**	**S-38443-062713-JT-063**	**S-38443-062813-JT-068**
Sample Date:		**6/20/2009**	**7/2/2013**	**6/26/2013**	**6/26/2013**	**6/27/2013**	**6/27/2013**	**6/28/2013**
Sample Depth:		**3-5 ft BGS**	**26.5-28.5 ft BGS**	**22-25 ft BGS**	**22-25 ft BGS**	**4-6 ft BGS**	**24.5-26.5 ft BGS**	**24.5-26.5 ft BGS**
					Duplicate			
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/kg	6.0 U	5.4 U	4800 U	4200 U	5.0 U	4.3 U	8.9 UJ
1,1,2,2-Tetrachloroethane	ug/kg	6.0 UJ	5.4 U	4800 U	4200 U	5.0 U	4.3 U	R
1,1,2-Trichloroethane	ug/kg	8.3	5.4 U	4800 U	4200 U	5.0 U	4.3 U	8.9 UJ
1,1-Dichloroethane	ug/kg	0.46 J	5.4 U	4800 U	4200 U	5.0 U	4.3 U	8.9 UJ
1,1-Dichloroethene	ug/kg	14	5.4 U	4800 U	4200 U	5.0 U	4.3 U	8.9 UJ
1,2,4-Trichlorobenzene	ug/kg	6.0 UJ	5.4 U	4800 U	4200 U	5.0 U	4.3 U	R
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	12 UJ	11 U	9600 UJ	8400 U	10 U	8.6 U	R
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	6.0 U	5.4 U	4800 U	4200 U	5.0 U	4.3 U	8.9 UJ
1,2-Dichlorobenzene	ug/kg	6.0 UJ	5.4 U	4800 U	4200 U	5.0 U	4.3 U	R
1,2-Dichloroethane	ug/kg	49	5.4 U	4800 U	4200 U	5.0 U	4.3 U	8.9 UJ
1,2-Dichloropropane	ug/kg	6.0 U	5.4 U	4800 U	4200 U	5.0 U	4.3 U	8.9 UJ
1,3-Dichlorobenzene	ug/kg	6.0 UJ	5.4 U	4800 U	4200 U	5.0 U	4.3 U	R
1,4-Dichlorobenzene	ug/kg	6.0 UJ	5.4 U	4800 U	4200 U	5.0 U	4.3 U	R
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	2.8 J	7.3 J	19000 U	17000 U	15 J	1.8 J	17 J
2-Hexanone	ug/kg	24 U	21 U	19000 U	17000 U	20 U	17 U	36 UJ
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	24 U	21 U	19000 U	17000 U	0.94 J	17 U	36 UJ
Acetone	ug/kg	24 UJ	25 U	28000	17000 U	83 U	17 U	81 UJ
Benzene	ug/kg	1.5 J	5.4 U	4800 U	4200 U	5.0 U	4.3 U	12 J
Bromodichloromethane	ug/kg	6.0 U	5.4 U	4800 U	4200 U	5.0 U	4.3 U	8.9 UJ
Bromoform	ug/kg	6.0 U	5.4 U	4800 U	4200 U	5.0 U	4.3 U	8.9 UJ
Bromomethane (Methyl bromide)	ug/kg	6.0 U	5.4 U	4800 U	4200 UJ	5.0 U	4.3 U	8.9 UJ
Carbon disulfide	ug/kg	6.0 U	5.4 U	4800 U	4200 U	5.0 U	0.48 J	2.7 J
Carbon tetrachloride	ug/kg	6.0 U	5.4 U	4800 U	4200 U	5.0 U	4.3 U	8.9 UJ
Chlorobenzene	ug/kg	6.0 U	5.4 U	4800 U	4200 U	5.0 U	4.3 U	8.9 UJ
Chloroethane	ug/kg	6.0 U	5.4 U	4800 U	4200 UJ	5.0 U	4.3 U	8.9 UJ
Chloroform (Trichloromethane)	ug/kg	6.0 U	5.4 U	4800 U	4200 U	5.0 U	4.3 U	8.9 UJ
Chloromethane (Methyl chloride)	ug/kg	6.0 U	5.4 U	4800 U	4200 U	5.0 U	4.3 U	8.9 UJ
cis-1,2-Dichloroethene	ug/kg	7.4	5.4 U	98000	1000 J	1.2 J	4.3 U	8.9 UJ
cis-1,3-Dichloropropene	ug/kg	6.0 U	5.4 U	4800 U	4200 U	5.0 U	4.3 U	8.9 UJ
Cyclohexane	ug/kg	12 UJ	11 U	9600 U	8400 U	1.8 J	8.6 U	18 UJ
Dibromochloromethane	ug/kg	6.0 U	5.4 U	4800 U	4200 U	5.0 U	4.3 U	8.9 UJ
Dichlorodifluoromethane (CFC-12)	ug/kg	6.0 U	5.4 U	4800 U	4200 U	5.0 U	4.3 U	8.9 UJ
Ethylbenzene	ug/kg	6.0 U	5.4 U	62000	25000	6.9	4.3 U	8.9 UJ
Isopropyl benzene	ug/kg	6.0 U	5.4 U	6400	4300	7.3	4.3 U	8.9 UJ
Methyl acetate	ug/kg	12 U	11 U	9600 U	8400 U	10 U	8.6 U	18 UJ
Methyl cyclohexane	ug/kg	4.9 J	11 U	1600 J	810 J	18	1.3 J	18 UJ
Methyl tert butyl ether (MTBE)	ug/kg	24 U	5.4 U	4800 U	4200 U	5.0 U	4.3 U	8.9 UJ
Methylene chloride	ug/kg	0.84 J	5.4 U	8800 U	4900 U	5.0 UJ	6.8 UJ	21 UJ
Styrene	ug/kg	6.0 U	5.4 U	4800 U	4200 U	5.0 U	4.3 U	8.9 UJ
Tetrachloroethene	ug/kg	6.0 U	5.4 U	4800 U	4200 U	5.0 U	4.3 U	8.9 UJ
Toluene	ug/kg	2.1 J	0.51 J	87000 J	8400 J	3.3 J	0.43 J	2.2 J
trans-1,2-Dichloroethene	ug/kg	0.95 J	5.4 U	270 J	4200 U	5.0 U	4.3 U	8.9 UJ
trans-1,3-Dichloropropene	ug/kg	6.0 U	5.4 U	4800 U	4200 U	5.0 U	4.3 U	8.9 UJ
Trichloroethene	ug/kg	6.0 U	5.4 U	5300 J	4200 U	5.0 U	4.3 U	8.9 UJ
Trichlorofluoromethane (CFC-11)	ug/kg	6.0 U	5.4 U	4800 U	4200 U	5.0 U	4.3 U	8.9 UJ

Table 13

Summary of Analytical Results
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH08-09**	**BH32-13**	**BH33-13**	**BH33-13**	**BH34-13**	**BH34-13**	**BH35-13**
Sample ID:		**S-38443-062009-DR-002**	**S-38443-070213-JC-079**	**S-38443-062613-JT-060**	**S-38443-062613-JT-061**	**S-38443-062713-JT-062**	**S-38443-062713-JT-063**	**S-38443-062813-JT-068**
Sample Date:		**6/20/2009**	**7/2/2013**	**6/26/2013**	**6/26/2013**	**6/27/2013**	**6/27/2013**	**6/28/2013**
Sample Depth:		**3-5 ft BGS**	**26.5-28.5 ft BGS**	**22-25 ft BGS**	**22-25 ft BGS**	**4-6 ft BGS**	**24.5-26.5 ft BGS**	**24.5-26.5 ft BGS**
					Duplicate			
Parameters	**Units**							
Trifluorotrichloroethane (CFC-113)	ug/kg	6.0 U	5.4 U	4800 U	4200 U	5.0 UJ	4.3 U	8.9 UJ
Vinyl chloride	ug/kg	54	5.4 U	380 J	4200 U	5.0 U	4.3 U	2.1 J
Xylenes (total)	ug/kg	1.9 J	11 U	280000 J	54000 J	27	8.6 U	18 UJ
Semi-Volatiles								
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	120 UJ	-	-	-	-	-	-
2,4,5-Trichlorophenol	ug/kg	180 UJ	-	-	-	-	-	-
2,4,6-Trichlorophenol	ug/kg	180 UJ	-	-	-	-	-	-
2,4-Dichlorophenol	ug/kg	180 UJ	-	-	-	-	-	-
2,4-Dimethylphenol	ug/kg	180 UJ	-	-	-	-	-	-
2,4-Dinitrophenol	ug/kg	400 UJ	-	-	-	-	-	-
2,4-Dinitrotoluene	ug/kg	240 UJ	-	-	-	-	-	-
2,6-Dinitrotoluene	ug/kg	240 UJ	-	-	-	-	-	-
2-Chloronaphthalene	ug/kg	60 UJ	-	-	-	-	-	-
2-Chlorophenol	ug/kg	60 UJ	-	-	-	-	-	-
2-Methylnaphthalene	ug/kg	38 J	-	-	-	-	-	-
2-Methylphenol	ug/kg	240 UJ	-	-	-	-	-	-
2-Nitroaniline	ug/kg	240 UJ	-	-	-	-	-	-
2-Nitrophenol	ug/kg	60 UJ	-	-	-	-	-	-
3&4-Methylphenol	ug/kg	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/kg	120 UJ	-	-	-	-	-	-
3-Nitroaniline	ug/kg	240 UJ	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	ug/kg	180 UJ	-	-	-	-	-	-
4-Bromophenyl phenyl ether	ug/kg	60 UJ	-	-	-	-	-	-
4-Chloro-3-methylphenol	ug/kg	180 UJ	-	-	-	-	-	-
4-Chloroaniline	ug/kg	180 UJ	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	ug/kg	60 UJ	-	-	-	-	-	-
4-Methylphenol	ug/kg	240 UJ	-	-	-	-	-	-
4-Nitroaniline	ug/kg	240 UJ	-	-	-	-	-	-
4-Nitrophenol	ug/kg	400 UJ	-	-	-	-	-	-
Acenaphthene	ug/kg	8.0 UJ	-	-	-	-	-	-
Acenaphthylene	ug/kg	8.0 UJ	-	-	-	-	-	-
Acetophenone	ug/kg	120 UJ	-	-	-	-	-	-
Anthracene	ug/kg	8.0 UJ	-	-	-	-	-	-
Atrazine	ug/kg	240 UJ	-	-	-	-	-	-
Benzaldehyde	ug/kg	120 UJ	-	-	-	-	-	-
Benzo(a)anthracene	ug/kg	11 J	-	-	-	-	-	-
Benzo(a)pyrene	ug/kg	8.0 UJ	-	-	-	-	-	-
Benzo(b)fluoranthene	ug/kg	9.0 J	-	-	-	-	-	-
Benzo(g,h,i)perylene	ug/kg	8.0 UJ	-	-	-	-	-	-
Benzo(k)fluoranthene	ug/kg	8.0 UJ	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	ug/kg	60 UJ	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	ug/kg	120 UJ	-	-	-	-	-	-
bis(2-Chloroethyl)ether	ug/kg	120 UJ	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	60 UJ	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	ug/kg	60 UJ	-	-	-	-	-	-

Table 13

Summary of Analytical Results
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH08-09**	**BH32-13**	**BH33-13**	**BH33-13**	**BH34-13**	**BH34-13**	**BH35-13**
Sample ID:		**S-38443-062009-DR-002**	**S-38443-070213-JC-079**	**S-38443-062613-JT-060**	**S-38443-062613-JT-061**	**S-38443-062713-JT-062**	**S-38443-062713-JT-063**	**S-38443-062813-JT-068**
Sample Date:		**6/20/2009**	**7/2/2013**	**6/26/2013**	**6/26/2013**	**6/27/2013**	**6/27/2013**	**6/28/2013**
Sample Depth:		**3-5 ft BGS**	**26.5-28.5 ft BGS**	**22-25 ft BGS**	**22-25 ft BGS**	**4-6 ft BGS**	**24.5-26.5 ft BGS**	**24.5-26.5 ft BGS**
					Duplicate			
Parameters	**Units**							
Caprolactam	ug/kg	400 UJ	-	-	-	-	-	-
Carbazole	ug/kg	60 UJ	-	-	-	-	-	-
Chrysene	ug/kg	11 J	-	-	-	-	-	-
Dibenz(a,h)anthracene	ug/kg	8.0 UJ	-	-	-	-	-	-
Dibenzofuran	ug/kg	60 UJ	-	-	-	-	-	-
Diethyl phthalate	ug/kg	60 UJ	-	-	-	-	-	-
Dimethyl phthalate	ug/kg	60 UJ	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	ug/kg	60 UJ	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	ug/kg	60 UJ	-	-	-	-	-	-
Fluoranthene	ug/kg	21 J	-	-	-	-	-	-
Fluorene	ug/kg	8.0 UJ	-	-	-	-	-	-
Hexachlorobenzene	ug/kg	8.0 UJ	-	-	-	-	-	-
Hexachlorobutadiene	ug/kg	60 UJ	-	-	-	-	-	-
Hexachlorocyclopentadiene	ug/kg	R	-	-	-	-	-	-
Hexachloroethane	ug/kg	60 UJ	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/kg	8.0 UJ	-	-	-	-	-	-
Isophorone	ug/kg	60 UJ	-	-	-	-	-	-
Naphthalene	ug/kg	44 J	-	-	-	-	-	-
Nitrobenzene	ug/kg	120 UJ	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	ug/kg	60 UJ	-	-	-	-	-	-
N-Nitrosodiphenylamine	ug/kg	60 UJ	-	-	-	-	-	-
Pentachlorophenol	ug/kg	180 UJ	-	-	-	-	-	-
Phenanthrene	ug/kg	42 J	-	-	-	-	-	-
Phenol	ug/kg	60 UJ	-	-	-	-	-	-
Pyrene	ug/kg	15 J	-	-	-	-	-	-
Metals								
Aluminum	mg/kg	3650	-	-	-	-	-	-
Antimony	mg/kg	0.67 J	-	-	-	-	-	-
Arsenic	mg/kg	6.6	-	-	-	-	-	-
Barium	mg/kg	23.7 J	-	-	-	-	-	-
Beryllium	mg/kg	0.25 J	-	-	-	-	-	-
Cadmium	mg/kg	0.60 U	-	-	-	-	-	-
Calcium	mg/kg	2650	-	-	-	-	-	-
Chromium	mg/kg	105	-	-	-	-	-	-
Chromium III (trivalent)	mg/kg	-	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-	-
Cobalt	mg/kg	5.5 J	-	-	-	-	-	-
Copper	mg/kg	70.6 J	-	-	-	-	-	-
Iron	mg/kg	69100	-	-	-	-	-	-
Lead	mg/kg	9.4 J	-	-	-	-	-	-
Magnesium	mg/kg	722	-	-	-	-	-	-
Manganese	mg/kg	1140	-	-	-	-	-	-
Mercury	mg/kg	0.12 U	-	-	-	-	-	-
Nickel	mg/kg	42.6	-	-	-	-	-	-
Potassium	mg/kg	262 J	-	-	-	-	-	-

Table 13

Summary of Analytical Results
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH08-09**	**BH32-13**	**BH33-13**	**BH33-13**	**BH34-13**	**BH34-13**	**BH35-13**
Sample ID:		**S-38443-062009-DR-002**	**S-38443-070213-JC-079**	**S-38443-062613-JT-060**	**S-38443-062613-JT-061**	**S-38443-062713-JT-062**	**S-38443-062713-JT-063**	**S-38443-062813-JT-068**
Sample Date:		**6/20/2009**	**7/2/2013**	**6/26/2013**	**6/26/2013**	**6/27/2013**	**6/27/2013**	**6/28/2013**
Sample Depth:		**3-5 ft BGS**	**26.5-28.5 ft BGS**	**22-25 ft BGS**	**22-25 ft BGS**	**4-6 ft BGS**	**24.5-26.5 ft BGS**	**24.5-26.5 ft BGS**
					Duplicate			
Parameters	**Units**							
Selenium	mg/kg	1.1 J	-	-	-	-	-	-
Silver	mg/kg	1.2 U	-	-	-	-	-	-
Sodium	mg/kg	599 U	-	-	-	-	-	-
Thallium	mg/kg	0.12 U	-	-	-	-	-	-
Vanadium	mg/kg	11.0	-	-	-	-	-	-
Zinc	mg/kg	26.9	-	-	-	-	-	-
PCBs								
Aroclor-1016 (PCB-1016)	ug/kg	40 U	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	ug/kg	40 U	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	ug/kg	40 U	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	ug/kg	40 U	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/kg	40 U	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/kg	40 U	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/kg	40 U	-	-	-	-	-	-
Pesticides								
4,4'-DDD	ug/kg	-	-	-	-	-	-	-
4,4'-DDE	ug/kg	-	-	-	-	-	-	-
4,4'-DDT	ug/kg	-	-	-	-	-	-	-
Aldrin	ug/kg	-	-	-	-	-	-	-
alpha-BHC	ug/kg	-	-	-	-	-	-	-
alpha-Chlordane	ug/kg	-	-	-	-	-	-	-
beta-BHC	ug/kg	-	-	-	-	-	-	-
delta-BHC	ug/kg	-	-	-	-	-	-	-
Dieldrin	ug/kg	-	-	-	-	-	-	-
Endosulfan I	ug/kg	-	-	-	-	-	-	-
Endosulfan II	ug/kg	-	-	-	-	-	-	-
Endosulfan sulfate	ug/kg	-	-	-	-	-	-	-
Endrin	ug/kg	-	-	-	-	-	-	-
Endrin aldehyde	ug/kg	-	-	-	-	-	-	-
Endrin ketone	ug/kg	-	-	-	-	-	-	-
gamma-BHC (lindane)	ug/kg	-	-	-	-	-	-	-
gamma-Chlordane	ug/kg	-	-	-	-	-	-	-
Heptachlor	ug/kg	-	-	-	-	-	-	-
Heptachlor epoxide	ug/kg	-	-	-	-	-	-	-
Methoxychlor	ug/kg	-	-	-	-	-	-	-
Toxaphene	ug/kg	-	-	-	-	-	-	-
Herbicides								
2,4,5-TP (Silvex)	ug/kg	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	-	-	-	-	-	-	-
Dioxin/Furans								
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-

Table 13

Summary of Analytical Results
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH08-09**	**BH32-13**	**BH33-13**	**BH33-13**	**BH34-13**	**BH34-13**	**BH35-13**
Sample ID:		**S-38443-062009-DR-002**	**S-38443-070213-JC-079**	**S-38443-062613-JT-060**	**S-38443-062613-JT-061**	**S-38443-062713-JT-062**	**S-38443-062713-JT-063**	**S-38443-062813-JT-068**
Sample Date:		**6/20/2009**	**7/2/2013**	**6/26/2013**	**6/26/2013**	**6/27/2013**	**6/27/2013**	**6/28/2013**
Sample Depth:		**3-5 ft BGS**	**26.5-28.5 ft BGS**	**22-25 ft BGS**	**22-25 ft BGS**	**4-6 ft BGS**	**24.5-26.5 ft BGS**	**24.5-26.5 ft BGS**
					Duplicate			
Parameters	**Units**							
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Asbestos								
Asbestos	%	-	-	-	-	-	-	-
Chrysotile asbestos	%	-	-	-	-	-	-	-
Geotechnical								
Coarse sand	%	-	-	-	-	-	-	-
Fine sand	%	-	-	-	-	-	-	-
Fines	%	-	-	-	-	-	-	-
Gravel	%	-	-	-	-	-	-	-
Medium sand	%	-	-	-	-	-	-	-
Sand	%	-	-	-	-	-	-	-
Sieve, #4	% passed	-	-	-	-	-	-	-
Sieve, #10	% passed	-	-	-	-	-	-	-
Sieve, #20	% passed	-	-	-	-	-	-	-
Sieve, #40	% passed	-	-	-	-	-	-	-
Sieve, #60	% passed	-	-	-	-	-	-	-
Sieve, #80	% passed	-	-	-	-	-	-	-
Sieve, #100	% passed	-	-	-	-	-	-	-
Sieve, #200	% passed	-	-	-	-	-	-	-
Sieve, 0.375 inch	% passed	-	-	-	-	-	-	-
Sieve, 0.75 inch	% passed	-	-	-	-	-	-	-
Sieve, 1 inch	% passed	-	-	-	-	-	-	-

Table 13

Summary of Analytical Results
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH08-09**	**BH32-13**	**BH33-13**	**BH33-13**	**BH34-13**	**BH34-13**	**BH35-13**
Sample ID:		**S-38443-062009-DR-002**	**S-38443-070213-JC-079**	**S-38443-062613-JT-060**	**S-38443-062613-JT-061**	**S-38443-062713-JT-062**	**S-38443-062713-JT-063**	**S-38443-062813-JT-068**
Sample Date:		**6/20/2009**	**7/2/2013**	**6/26/2013**	**6/26/2013**	**6/27/2013**	**6/27/2013**	**6/28/2013**
Sample Depth:		**3-5 ft BGS**	**26.5-28.5 ft BGS**	**22-25 ft BGS**	**22-25 ft BGS**	**4-6 ft BGS**	**24.5-26.5 ft BGS**	**24.5-26.5 ft BGS**
					Duplicate			
Parameters	**Units**							
Sieve, 1.5 inch	% passed	-	-	-	-	-	-	-
Sieve, 2 inch	% passed	-	-	-	-	-	-	-
Sieve, 3 inch	% passed	-	-	-	-	-	-	-
General Chemistry								
Cellulose	%	-	-	-	-	-	-	-
Cyanide (total)	mg/kg	-	-	-	-	-	-	-
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-
Total solids	%	83.5	-	-	-	-	-	-

Notes
< - Less than reported value.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 13

Summary of Analytical Results
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH36-13**	**BH36-13**	**BH37-13**	**BH38-13**	**BH38-13**	**BH39-13**	**BH40-13**
Sample ID:		**S-38443-070113-JT-082**	**S-38443-070113-JT-083**	**S-38443-070213-JT-086**	**S-38443-062713-JT-064**	**S-38443-062713-JT-065**	**S-38443-070113-JC-075**	**S-38443-062813-JT-066**
Sample Date:		**7/1/2013**	**7/1/2013**	**7/2/2013**	**6/27/2013**	**6/27/2013**	**7/1/2013**	**6/28/2013**
Sample Depth:		**0-2 ft BGS**	**30-32 ft BGS**	**25-27 ft BGS**	**2-4 ft BGS**	**25.5-27.5 ft BGS**	**28-30 ft BGS**	**18-20 ft BGS**
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/kg	4.9 U	4.5 U	4.3 U	570 U	3.9 U	5.4 U	8.3 U
1,1,2,2-Tetrachloroethane	ug/kg	4.9 U	4.5 U	4.3 U	570 U	3.9 U	5.4 U	8.3 UJ
1,1,2-Trichloroethane	ug/kg	4.9 U	4.5 U	4.3 U	570 U	3.9 U	5.4 U	8.3 U
1,1-Dichloroethane	ug/kg	4.9 U	4.5 U	4.3 U	280 J	3.9 U	5.4 U	8.3 U
1,1-Dichloroethene	ug/kg	4.9 U	4.5 U	4.3 U	49 J	3.9 U	5.4 U	8.3 U
1,2,4-Trichlorobenzene	ug/kg	4.9 U	4.5 U	4.3 U	570 U	3.9 U	5.4 U	8.3 UJ
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	9.8 U	9.1 UJ	8.7 U	1100 U	7.8 U	11 U	17 UJ
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	4.9 U	4.5 U	4.3 U	570 U	3.9 U	5.4 U	8.3 U
1,2-Dichlorobenzene	ug/kg	4.9 U	4.5 U	4.3 U	570 U	3.9 U	5.4 U	8.3 UJ
1,2-Dichloroethane	ug/kg	4.9 U	4.5 U	4.3 U	570 U	3.9 U	5.4 U	8.3 U
1,2-Dichloropropane	ug/kg	4.9 U	4.5 U	4.3 U	570 U	3.9 U	5.4 U	8.3 U
1,3-Dichlorobenzene	ug/kg	4.9 U	4.5 U	4.3 U	570 U	3.9 U	5.4 U	8.3 UJ
1,4-Dichlorobenzene	ug/kg	4.9 U	4.5 U	4.3 U	570 U	3.9 U	5.4 U	8.3 UJ
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	5.1 J	1.3 J	17 U	2300 U	2.2 J	2.8 J	23 J
2-Hexanone	ug/kg	20 U	18 U	17 U	2300 U	16 U	22 U	33 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	0.90 J	18 U	17 U	2300 U	16 U	0.73 J	33 U
Acetone	ug/kg	20 U	18 U	17 U	2300 U	20 U	22 U	110 U
Benzene	ug/kg	4.9 U	0.71 J	1.7 J	510 J	3.9 U	5.4 U	6.9 J
Bromodichloromethane	ug/kg	4.9 U	4.5 U	4.3 U	570 U	3.9 U	5.4 U	8.3 U
Bromoform	ug/kg	4.9 U	4.5 U	4.3 U	570 U	3.9 U	5.4 U	8.3 U
Bromomethane (Methyl bromide)	ug/kg	4.9 U	4.5 U	4.3 U	570 U	3.9 U	5.4 U	8.3 U
Carbon disulfide	ug/kg	0.63 J	4.5 U	4.3 U	570 U	3.9 U	5.4 U	1.0 J
Carbon tetrachloride	ug/kg	4.9 U	4.5 U	4.3 U	570 U	3.9 U	5.4 U	8.3 U
Chlorobenzene	ug/kg	4.9 U	4.5 U	4.3 U	23 J	3.9 U	5.4 U	8.3 U
Chloroethane	ug/kg	4.9 U	4.5 U	4.3 U	570 U	3.9 U	5.4 U	8.3 U
Chloroform (Trichloromethane)	ug/kg	4.9 U	4.5 U	4.3 U	570 U	3.9 U	5.4 U	8.3 U
Chloromethane (Methyl chloride)	ug/kg	4.9 U	4.5 U	4.3 U	570 U	3.9 U	5.4 U	8.3 U
cis-1,2-Dichloroethene	ug/kg	4.9 U	4.5 U	4.3 U	1000	3.9 U	0.51 J	8.3 U
cis-1,3-Dichloropropene	ug/kg	4.9 U	4.5 U	4.3 U	570 U	3.9 U	5.4 U	8.3 U
Cyclohexane	ug/kg	9.8 U	1.4 J	2.4 J	600 J	7.8 U	11 U	17 U
Dibromochloromethane	ug/kg	4.9 U	4.5 U	4.3 U	570 U	3.9 U	5.4 U	8.3 U
Dichlorodifluoromethane (CFC-12)	ug/kg	4.9 U	4.5 U	4.3 U	570 U	3.9 U	5.4 U	8.3 U
Ethylbenzene	ug/kg	4.9 U	1.4 J	2.5 J	15000	3.9 U	5.4 U	8.3 U
Isopropyl benzene	ug/kg	4.9 U	4.5 U	0.55 J	280 J	3.9 U	5.4 U	8.3 U
Methyl acetate	ug/kg	9.8 U	9.1 U	8.7 U	240 J	7.8 U	11 U	17 U
Methyl cyclohexane	ug/kg	9.8 U	2.5 J	3.2 J	1100	7.8 U	11 U	1.2 J
Methyl tert butyl ether (MTBE)	ug/kg	4.9 U	4.5 U	4.3 U	570 U	3.9 U	5.4 U	8.3 U
Methylene chloride	ug/kg	4.9 U	5.8 UJ	4.3 U	740 UJ	5.7 UJ	3.1 J	17 UJ
Styrene	ug/kg	4.9 U	4.5 U	4.3 U	570 U	3.9 U	5.4 U	8.3 U
Tetrachloroethene	ug/kg	4.9 U	4.5 U	4.3 U	570 U	3.9 U	5.4 U	8.3 U
Toluene	ug/kg	0.38 J	2.6 J	2.5 J	670	1.7 J	0.31 J	2.6 J
trans-1,2-Dichloroethene	ug/kg	4.9 U	4.5 U	4.3 U	140 J	3.9 U	5.4 U	8.3 U
trans-1,3-Dichloropropene	ug/kg	4.9 U	4.5 U	4.3 U	570 U	3.9 U	5.4 U	8.3 U
Trichloroethene	ug/kg	4.9 U	4.5 U	4.3 U	1600 J	3.9 U	5.4 U	8.3 U
Trichlorofluoromethane (CFC-11)	ug/kg	4.9 U	4.5 U	4.3 U	570 U	3.9 U	5.4 U	8.3 U

Table 13

Summary of Analytical Results
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH36-13**	**BH36-13**	**BH37-13**	**BH38-13**	**BH38-13**	**BH39-13**	**BH40-13**
Sample ID:		**S-38443-070113-JT-082**	**S-38443-070113-JT-083**	**S-38443-070213-JT-086**	**S-38443-062713-JT-064**	**S-38443-062713-JT-065**	**S-38443-070113-JC-075**	**S-38443-062813-JT-066**
Sample Date:		**7/1/2013**	**7/1/2013**	**7/2/2013**	**6/27/2013**	**6/27/2013**	**7/1/2013**	**6/28/2013**
Sample Depth:		**0-2 ft BGS**	**30-32 ft BGS**	**25-27 ft BGS**	**2-4 ft BGS**	**25.5-27.5 ft BGS**	**28-30 ft BGS**	**18-20 ft BGS**
Parameters	**Units**							
Trifluorotrichloroethane (CFC-113)	ug/kg	4.9 U	4.5 U	4.3 U	570 U	3.9 U	5.4 U	8.3 U
Vinyl chloride	ug/kg	4.9 U	4.5 U	4.3 U	200 J	3.9 U	5.4 U	8.3 U
Xylenes (total)	ug/kg	9.8 U	2.7 J	4.6 J	14000	7.8 U	11 U	17 U
Semi-Volatiles								
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	ug/kg	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	ug/kg	-	-	-	-	-	-	-
2,4-Dichlorophenol	ug/kg	-	-	-	-	-	-	-
2,4-Dimethylphenol	ug/kg	-	-	-	-	-	-	-
2,4-Dinitrophenol	ug/kg	-	-	-	-	-	-	-
2,4-Dinitrotoluene	ug/kg	-	-	-	-	-	-	-
2,6-Dinitrotoluene	ug/kg	-	-	-	-	-	-	-
2-Chloronaphthalene	ug/kg	-	-	-	-	-	-	-
2-Chlorophenol	ug/kg	-	-	-	-	-	-	-
2-Methylnaphthalene	ug/kg	-	-	-	-	-	-	-
2-Methylphenol	ug/kg	-	-	-	-	-	-	-
2-Nitroaniline	ug/kg	-	-	-	-	-	-	-
2-Nitrophenol	ug/kg	-	-	-	-	-	-	-
3&4-Methylphenol	ug/kg	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/kg	-	-	-	-	-	-	-
3-Nitroaniline	ug/kg	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	ug/kg	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	ug/kg	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	ug/kg	-	-	-	-	-	-	-
4-Chloroaniline	ug/kg	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	ug/kg	-	-	-	-	-	-	-
4-Methylphenol	ug/kg	-	-	-	-	-	-	-
4-Nitroaniline	ug/kg	-	-	-	-	-	-	-
4-Nitrophenol	ug/kg	-	-	-	-	-	-	-
Acenaphthene	ug/kg	-	-	-	-	-	-	-
Acenaphthylene	ug/kg	-	-	-	-	-	-	-
Acetophenone	ug/kg	-	-	-	-	-	-	-
Anthracene	ug/kg	-	-	-	-	-	-	-
Atrazine	ug/kg	-	-	-	-	-	-	-
Benzaldehyde	ug/kg	-	-	-	-	-	-	-
Benzo(a)anthracene	ug/kg	-	-	-	-	-	-	-
Benzo(a)pyrene	ug/kg	-	-	-	-	-	-	-
Benzo(b)fluoranthene	ug/kg	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	ug/kg	-	-	-	-	-	-	-
Benzo(k)fluoranthene	ug/kg	-	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	ug/kg	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	ug/kg	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	ug/kg	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	ug/kg	-	-	-	-	-	-	-

Table 13

Summary of Analytical Results
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH36-13**	**BH36-13**	**BH37-13**	**BH38-13**	**BH38-13**	**BH39-13**	**BH40-13**
Sample ID:		**S-38443-070113-JT-082**	**S-38443-070113-JT-083**	**S-38443-070213-JT-086**	**S-38443-062713-JT-064**	**S-38443-062713-JT-065**	**S-38443-070113-JC-075**	**S-38443-062813-JT-066**
Sample Date:		**7/1/2013**	**7/1/2013**	**7/2/2013**	**6/27/2013**	**6/27/2013**	**7/1/2013**	**6/28/2013**
Sample Depth:		**0-2 ft BGS**	**30-32 ft BGS**	**25-27 ft BGS**	**2-4 ft BGS**	**25.5-27.5 ft BGS**	**28-30 ft BGS**	**18-20 ft BGS**
Parameters	**Units**							
Caprolactam	ug/kg	-	-	-	-	-	-	-
Carbazole	ug/kg	-	-	-	-	-	-	-
Chrysene	ug/kg	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	ug/kg	-	-	-	-	-	-	-
Dibenzofuran	ug/kg	-	-	-	-	-	-	-
Diethyl phthalate	ug/kg	-	-	-	-	-	-	-
Dimethyl phthalate	ug/kg	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	ug/kg	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	ug/kg	-	-	-	-	-	-	-
Fluoranthene	ug/kg	-	-	-	-	-	-	-
Fluorene	ug/kg	-	-	-	-	-	-	-
Hexachlorobenzene	ug/kg	-	-	-	-	-	-	-
Hexachlorobutadiene	ug/kg	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	ug/kg	-	-	-	-	-	-	-
Hexachloroethane	ug/kg	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/kg	-	-	-	-	-	-	-
Isophorone	ug/kg	-	-	-	-	-	-	-
Naphthalene	ug/kg	-	-	-	-	-	-	-
Nitrobenzene	ug/kg	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	ug/kg	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	ug/kg	-	-	-	-	-	-	-
Pentachlorophenol	ug/kg	-	-	-	-	-	-	-
Phenanthrene	ug/kg	-	-	-	-	-	-	-
Phenol	ug/kg	-	-	-	-	-	-	-
Pyrene	ug/kg	-	-	-	-	-	-	-
Metals								
Aluminum	mg/kg	-	-	-	-	-	-	-
Antimony	mg/kg	-	-	-	-	-	-	-
Arsenic	mg/kg	-	-	-	-	-	-	-
Barium	mg/kg	-	-	-	-	-	-	-
Beryllium	mg/kg	-	-	-	-	-	-	-
Cadmium	mg/kg	-	-	-	-	-	-	-
Calcium	mg/kg	-	-	-	-	-	-	-
Chromium	mg/kg	-	-	-	-	-	-	-
Chromium III (trivalent)	mg/kg	-	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-	-
Cobalt	mg/kg	-	-	-	-	-	-	-
Copper	mg/kg	-	-	-	-	-	-	-
Iron	mg/kg	-	-	-	-	-	-	-
Lead	mg/kg	-	-	-	-	-	-	-
Magnesium	mg/kg	-	-	-	-	-	-	-
Manganese	mg/kg	-	-	-	-	-	-	-
Mercury	mg/kg	-	-	-	-	-	-	-
Nickel	mg/kg	-	-	-	-	-	-	-
Potassium	mg/kg	-	-	-	-	-	-	-

Table 13

Summary of Analytical Results
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH36-13**	**BH36-13**	**BH37-13**	**BH38-13**	**BH38-13**	**BH39-13**	**BH40-13**
Sample ID:		**S-38443-070113-JT-082**	**S-38443-070113-JT-083**	**S-38443-070213-JT-086**	**S-38443-062713-JT-064**	**S-38443-062713-JT-065**	**S-38443-070113-JC-075**	**S-38443-062813-JT-066**
Sample Date:		**7/1/2013**	**7/1/2013**	**7/2/2013**	**6/27/2013**	**6/27/2013**	**7/1/2013**	**6/28/2013**
Sample Depth:		**0-2 ft BGS**	**30-32 ft BGS**	**25-27 ft BGS**	**2-4 ft BGS**	**25.5-27.5 ft BGS**	**28-30 ft BGS**	**18-20 ft BGS**
Parameters	**Units**							
Selenium	mg/kg	-	-	-	-	-	-	-
Silver	mg/kg	-	-	-	-	-	-	-
Sodium	mg/kg	-	-	-	-	-	-	-
Thallium	mg/kg	-	-	-	-	-	-	-
Vanadium	mg/kg	-	-	-	-	-	-	-
Zinc	mg/kg	-	-	-	-	-	-	-
PCBs								
Aroclor-1016 (PCB-1016)	ug/kg	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	ug/kg	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	ug/kg	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	ug/kg	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/kg	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/kg	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/kg	-	-	-	-	-	-	-
Pesticides								
4,4'-DDD	ug/kg	-	-	-	-	-	-	-
4,4'-DDE	ug/kg	-	-	-	-	-	-	-
4,4'-DDT	ug/kg	-	-	-	-	-	-	-
Aldrin	ug/kg	-	-	-	-	-	-	-
alpha-BHC	ug/kg	-	-	-	-	-	-	-
alpha-Chlordane	ug/kg	-	-	-	-	-	-	-
beta-BHC	ug/kg	-	-	-	-	-	-	-
delta-BHC	ug/kg	-	-	-	-	-	-	-
Dieldrin	ug/kg	-	-	-	-	-	-	-
Endosulfan I	ug/kg	-	-	-	-	-	-	-
Endosulfan II	ug/kg	-	-	-	-	-	-	-
Endosulfan sulfate	ug/kg	-	-	-	-	-	-	-
Endrin	ug/kg	-	-	-	-	-	-	-
Endrin aldehyde	ug/kg	-	-	-	-	-	-	-
Endrin ketone	ug/kg	-	-	-	-	-	-	-
gamma-BHC (lindane)	ug/kg	-	-	-	-	-	-	-
gamma-Chlordane	ug/kg	-	-	-	-	-	-	-
Heptachlor	ug/kg	-	-	-	-	-	-	-
Heptachlor epoxide	ug/kg	-	-	-	-	-	-	-
Methoxychlor	ug/kg	-	-	-	-	-	-	-
Toxaphene	ug/kg	-	-	-	-	-	-	-
Herbicides								
2,4,5-TP (Silvex)	ug/kg	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	-	-	-	-	-	-	-
Dioxin/Furans								
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-

Table 13

Summary of Analytical Results
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH36-13**	**BH36-13**	**BH37-13**	**BH38-13**	**BH38-13**	**BH39-13**	**BH40-13**
Sample ID:		**S-38443-070113-JT-082**	**S-38443-070113-JT-083**	**S-38443-070213-JT-086**	**S-38443-062713-JT-064**	**S-38443-062713-JT-065**	**S-38443-070113-JC-075**	**S-38443-062813-JT-066**
Sample Date:		**7/1/2013**	**7/1/2013**	**7/2/2013**	**6/27/2013**	**6/27/2013**	**7/1/2013**	**6/28/2013**
Sample Depth:		**0-2 ft BGS**	**30-32 ft BGS**	**25-27 ft BGS**	**2-4 ft BGS**	**25.5-27.5 ft BGS**	**28-30 ft BGS**	**18-20 ft BGS**
Parameters	**Units**							
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Asbestos								
Asbestos	%	-	-	-	-	-	-	-
Chrysotile asbestos	%	-	-	-	-	-	-	-
Geotechnical								
Coarse sand	%	-	-	-	-	-	-	-
Fine sand	%	-	-	-	-	-	-	-
Fines	%	-	-	-	-	-	-	-
Gravel	%	-	-	-	-	-	-	-
Medium sand	%	-	-	-	-	-	-	-
Sand	%	-	-	-	-	-	-	-
Sieve, #4	% passed	-	-	-	-	-	-	-
Sieve, #10	% passed	-	-	-	-	-	-	-
Sieve, #20	% passed	-	-	-	-	-	-	-
Sieve, #40	% passed	-	-	-	-	-	-	-
Sieve, #60	% passed	-	-	-	-	-	-	-
Sieve, #80	% passed	-	-	-	-	-	-	-
Sieve, #100	% passed	-	-	-	-	-	-	-
Sieve, #200	% passed	-	-	-	-	-	-	-
Sieve, 0.375 inch	% passed	-	-	-	-	-	-	-
Sieve, 0.75 inch	% passed	-	-	-	-	-	-	-
Sieve, 1 inch	% passed	-	-	-	-	-	-	-

Table 13

Summary of Analytical Results
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH36-13**	**BH36-13**	**BH37-13**	**BH38-13**	**BH38-13**	**BH39-13**	**BH40-13**
Sample ID:		**S-38443-070113-JT-082**	**S-38443-070113-JT-083**	**S-38443-070213-JT-086**	**S-38443-062713-JT-064**	**S-38443-062713-JT-065**	**S-38443-070113-JC-075**	**S-38443-062813-JT-066**
Sample Date:		**7/1/2013**	**7/1/2013**	**7/2/2013**	**6/27/2013**	**6/27/2013**	**7/1/2013**	**6/28/2013**
Sample Depth:		**0-2 ft BGS**	**30-32 ft BGS**	**25-27 ft BGS**	**2-4 ft BGS**	**25.5-27.5 ft BGS**	**28-30 ft BGS**	**18-20 ft BGS**
Parameters	**Units**							
Sieve, 1.5 inch	% passed	-	-	-	-	-	-	-
Sieve, 2 inch	% passed	-	-	-	-	-	-	-
Sieve, 3 inch	% passed	-	-	-	-	-	-	-
General Chemistry								
Cellulose	%	-	-	-	-	-	-	-
Cyanide (total)	mg/kg	-	-	-	-	-	-	-
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-

Notes
< - Less than reported value.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 13

Summary of Analytical Results
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH40-13**	**BH42-13**	**BH42-13**	**BH42-13**	**BH43-13**	**BH44-13**	**BH44-13**
Sample ID:		**S-38443-062813-JT-067**	**S-38443-070113-JT-069**	**S-38443-070113-JT-080**	**S-38443-070113-JT-081**	**S-38443-070113-JC-074**	**S-38443-070113-JT-084**	**S-38443-070113-JT-085**
Sample Date:		**6/28/2013**	**7/1/2013**	**7/1/2013**	**7/1/2013**	**7/1/2013**	**7/1/2013**	**7/1/2013**
Sample Depth:		**18-20 ft BGS**	**2-4 ft BGS**	**2-4 ft BGS**	**20-22 ft BGS**	**26.8-28.7 ft BGS**	**2-4 ft BGS**	**35.5-37.5 ft BGS**
		Duplicate		**Duplicate**				
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/kg	580 U	3100 U	3000 U	260 U	4.3 U	230 U	550 U
1,1,2,2-Tetrachloroethane	ug/kg	580 U	3100 U	3000 U	260 U	4.3 U	230 U	550 U
1,1,2-Trichloroethane	ug/kg	580 U	3100 U	3000 U	260 U	4.3 U	230 U	550 U
1,1-Dichloroethane	ug/kg	580 U	3100 U	3000 U	71 J	4.3 U	230 U	550 U
1,1-Dichloroethene	ug/kg	580 U	3100 U	3000 U	260 U	4.3 U	230 U	550 U
1,2,4-Trichlorobenzene	ug/kg	580 U	3100 U	3000 U	260 U	4.3 U	230 U	550 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	1200 U	6300 U	6100 U	520 U	8.6 U	450 U	1100 U
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	580 U	3100 U	3000 U	260 U	4.3 U	230 U	550 U
1,2-Dichlorobenzene	ug/kg	580 U	3100 U	3000 U	260 U	4.3 U	230 U	550 U
1,2-Dichloroethane	ug/kg	580 U	3100 U	3000 U	260 U	4.3 U	230 U	550 U
1,2-Dichloropropane	ug/kg	580 U	3100 U	3000 U	260 U	4.3 U	230 U	550 U
1,3-Dichlorobenzene	ug/kg	580 U	3100 U	3000 U	260 U	4.3 U	230 U	550 U
1,4-Dichlorobenzene	ug/kg	580 U	3100 U	3000 U	260 U	4.3 U	230 U	550 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	120 J	13000 U	12000 U	100 J	17 U	910 U	2200 U
2-Hexanone	ug/kg	2300 U	13000 U	12000 U	1000 U	17 U	910 U	2200 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	2300 U	900 J	12000 U	1000 U	17 U	910 U	2200 U
Acetone	ug/kg	2300 U	13000 U	12000 U	1000 U	17 U	910 U	2200 U
Benzene	ug/kg	310 J	350 J	150 J	47 J	0.20 J	13 J	550 U
Bromodichloromethane	ug/kg	580 U	3100 U	3000 U	260 U	4.3 U	230 U	550 U
Bromoform	ug/kg	580 U	3100 U	3000 U	260 U	4.3 U	230 U	550 U
Bromomethane (Methyl bromide)	ug/kg	580 U	3100 U	3000 U	260 U	4.3 U	230 U	550 U
Carbon disulfide	ug/kg	580 U	3100 U	3000 U	97 J	4.3 U	230 U	550 U
Carbon tetrachloride	ug/kg	580 U	3100 U	3000 U	260 U	4.3 U	230 U	550 U
Chlorobenzene	ug/kg	580 U	3100 U	3000 U	260 U	4.3 U	230 U	550 U
Chloroethane	ug/kg	580 U	3100 U	3000 U	91 J	4.3 U	230 U	550 U
Chloroform (Trichloromethane)	ug/kg	580 U	3100 U	3000 U	260 U	4.3 U	230 U	550 U
Chloromethane (Methyl chloride)	ug/kg	580 U	3100 U	3000 U	260 U	4.3 U	230 U	550 U
cis-1,2-Dichloroethene	ug/kg	580 U	4000	1800 J	180 J	1.5 J	230 U	410 J
cis-1,3-Dichloropropene	ug/kg	580 U	3100 U	3000 U	260 U	4.3 U	230 U	550 U
Cyclohexane	ug/kg	1200 U	6300 U	6100 U	520 U	8.6 U	450 U	1100 U
Dibromochloromethane	ug/kg	580 U	3100 U	3000 U	260 U	4.3 U	230 U	550 U
Dichlorodifluoromethane (CFC-12)	ug/kg	580 U	3100 U	3000 U	260 U	4.3 U	230 U	550 U
Ethylbenzene	ug/kg	98 J	12000	4300	470	4.3 U	8.6 J	67 J
Isopropyl benzene	ug/kg	100 J	2800 J	1100 J	180 J	4.3 U	230 U	450 J
Methyl acetate	ug/kg	380 J	690 J	380 J	98 J	8.6 U	65 J	58 J
Methyl cyclohexane	ug/kg	44 J	3800 J	930 J	310 J	8.6 U	32 J	1300
Methyl tert butyl ether (MTBE)	ug/kg	580 U	3100 U	3000 U	260 U	4.3 U	230 U	550 U
Methylene chloride	ug/kg	580 U	3100 U	3000 U	260 U	1.4 J	230 U	550 U
Styrene	ug/kg	580 U	3100 U	3000 U	260 U	4.3 U	230 U	550 U
Tetrachloroethene	ug/kg	580 U	320 J	3000 U	13 J	4.3 U	230 U	550 U
Toluene	ug/kg	270 J	12000	1800 J	490	0.58 J	39 J	86 J
trans-1,2-Dichloroethene	ug/kg	580 U	290 J	130 J	260 U	4.3 U	230 U	550 U
trans-1,3-Dichloropropene	ug/kg	580 U	3100 U	3000 U	260 U	4.3 U	230 U	550 U
Trichloroethene	ug/kg	580 U	3100 U	3000 U	260 U	4.3 U	230 U	550 U
Trichlorofluoromethane (CFC-11)	ug/kg	580 U	3100 U	3000 U	260 U	4.3 U	230 U	550 U

Table 13

Summary of Analytical Results
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH40-13**	**BH42-13**	**BH42-13**	**BH42-13**	**BH43-13**	**BH44-13**	**BH44-13**
Sample ID:		**S-38443-062813-JT-067**	**S-38443-070113-JT-069**	**S-38443-070113-JT-080**	**S-38443-070113-JT-081**	**S-38443-070113-JC-074**	**S-38443-070113-JT-084**	**S-38443-070113-JT-085**
Sample Date:		**6/28/2013**	**7/1/2013**	**7/1/2013**	**7/1/2013**	**7/1/2013**	**7/1/2013**	**7/1/2013**
Sample Depth:		**18-20 ft BGS**	**2-4 ft BGS**	**2-4 ft BGS**	**20-22 ft BGS**	**26.8-28.7 ft BGS**	**2-4 ft BGS**	**35.5-37.5 ft BGS**
		Duplicate		**Duplicate**				
Parameters	**Units**							
Trifluorotrichloroethane (CFC-113)	ug/kg	580 U	3100 U	3000 U	260 U	4.3 U	230 U	550 U
Vinyl chloride	ug/kg	580 U	3100 U	3000 U	21 J	4.3 U	230 U	220 J
Xylenes (total)	ug/kg	380 J	27000	10000	950	8.6 U	450 U	1100 U
Semi-Volatiles								
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	ug/kg	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	ug/kg	-	-	-	-	-	-	-
2,4-Dichlorophenol	ug/kg	-	-	-	-	-	-	-
2,4-Dimethylphenol	ug/kg	-	-	-	-	-	-	-
2,4-Dinitrophenol	ug/kg	-	-	-	-	-	-	-
2,4-Dinitrotoluene	ug/kg	-	-	-	-	-	-	-
2,6-Dinitrotoluene	ug/kg	-	-	-	-	-	-	-
2-Chloronaphthalene	ug/kg	-	-	-	-	-	-	-
2-Chlorophenol	ug/kg	-	-	-	-	-	-	-
2-Methylnaphthalene	ug/kg	-	-	-	-	-	-	-
2-Methylphenol	ug/kg	-	-	-	-	-	-	-
2-Nitroaniline	ug/kg	-	-	-	-	-	-	-
2-Nitrophenol	ug/kg	-	-	-	-	-	-	-
3&4-Methylphenol	ug/kg	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/kg	-	-	-	-	-	-	-
3-Nitroaniline	ug/kg	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	ug/kg	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	ug/kg	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	ug/kg	-	-	-	-	-	-	-
4-Chloroaniline	ug/kg	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	ug/kg	-	-	-	-	-	-	-
4-Methylphenol	ug/kg	-	-	-	-	-	-	-
4-Nitroaniline	ug/kg	-	-	-	-	-	-	-
4-Nitrophenol	ug/kg	-	-	-	-	-	-	-
Acenaphthene	ug/kg	-	-	-	-	-	-	-
Acenaphthylene	ug/kg	-	-	-	-	-	-	-
Acetophenone	ug/kg	-	-	-	-	-	-	-
Anthracene	ug/kg	-	-	-	-	-	-	-
Atrazine	ug/kg	-	-	-	-	-	-	-
Benzaldehyde	ug/kg	-	-	-	-	-	-	-
Benzo(a)anthracene	ug/kg	-	-	-	-	-	-	-
Benzo(a)pyrene	ug/kg	-	-	-	-	-	-	-
Benzo(b)fluoranthene	ug/kg	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	ug/kg	-	-	-	-	-	-	-
Benzo(k)fluoranthene	ug/kg	-	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	ug/kg	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	ug/kg	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	ug/kg	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	ug/kg	-	-	-	-	-	-	-

Table 13

Summary of Analytical Results
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH40-13**	**BH42-13**	**BH42-13**	**BH42-13**	**BH43-13**	**BH44-13**	**BH44-13**
Sample ID:		**S-38443-062813-JT-067**	**S-38443-070113-JT-069**	**S-38443-070113-JT-080**	**S-38443-070113-JT-081**	**S-38443-070113-JC-074**	**S-38443-070113-JT-084**	**S-38443-070113-JT-085**
Sample Date:		**6/28/2013**	**7/1/2013**	**7/1/2013**	**7/1/2013**	**7/1/2013**	**7/1/2013**	**7/1/2013**
Sample Depth:		**18-20 ft BGS**	**2-4 ft BGS**	**2-4 ft BGS**	**20-22 ft BGS**	**26.8-28.7 ft BGS**	**2-4 ft BGS**	**35.5-37.5 ft BGS**
		Duplicate		**Duplicate**				
Parameters	**Units**							
Caprolactam	ug/kg	-	-	-	-	-	-	-
Carbazole	ug/kg	-	-	-	-	-	-	-
Chrysene	ug/kg	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	ug/kg	-	-	-	-	-	-	-
Dibenzofuran	ug/kg	-	-	-	-	-	-	-
Diethyl phthalate	ug/kg	-	-	-	-	-	-	-
Dimethyl phthalate	ug/kg	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	ug/kg	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	ug/kg	-	-	-	-	-	-	-
Fluoranthene	ug/kg	-	-	-	-	-	-	-
Fluorene	ug/kg	-	-	-	-	-	-	-
Hexachlorobenzene	ug/kg	-	-	-	-	-	-	-
Hexachlorobutadiene	ug/kg	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	ug/kg	-	-	-	-	-	-	-
Hexachloroethane	ug/kg	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/kg	-	-	-	-	-	-	-
Isophorone	ug/kg	-	-	-	-	-	-	-
Naphthalene	ug/kg	-	-	-	-	-	-	-
Nitrobenzene	ug/kg	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	ug/kg	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	ug/kg	-	-	-	-	-	-	-
Pentachlorophenol	ug/kg	-	-	-	-	-	-	-
Phenanthrene	ug/kg	-	-	-	-	-	-	-
Phenol	ug/kg	-	-	-	-	-	-	-
Pyrene	ug/kg	-	-	-	-	-	-	-
Metals								
Aluminum	mg/kg	-	-	-	-	-	-	-
Antimony	mg/kg	-	-	-	-	-	-	-
Arsenic	mg/kg	-	-	-	-	-	-	-
Barium	mg/kg	-	-	-	-	-	-	-
Beryllium	mg/kg	-	-	-	-	-	-	-
Cadmium	mg/kg	-	-	-	-	-	-	-
Calcium	mg/kg	-	-	-	-	-	-	-
Chromium	mg/kg	-	-	-	-	-	-	-
Chromium III (trivalent)	mg/kg	-	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-	-
Cobalt	mg/kg	-	-	-	-	-	-	-
Copper	mg/kg	-	-	-	-	-	-	-
Iron	mg/kg	-	-	-	-	-	-	-
Lead	mg/kg	-	-	-	-	-	-	-
Magnesium	mg/kg	-	-	-	-	-	-	-
Manganese	mg/kg	-	-	-	-	-	-	-
Mercury	mg/kg	-	-	-	-	-	-	-
Nickel	mg/kg	-	-	-	-	-	-	-
Potassium	mg/kg	-	-	-	-	-	-	-

Table 13

Summary of Analytical Results
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH40-13**	**BH42-13**	**BH42-13**	**BH42-13**	**BH43-13**	**BH44-13**	**BH44-13**
Sample ID:		**S-38443-062813-JT-067**	**S-38443-070113-JT-069**	**S-38443-070113-JT-080**	**S-38443-070113-JT-081**	**S-38443-070113-JC-074**	**S-38443-070113-JT-084**	**S-38443-070113-JT-085**
Sample Date:		**6/28/2013**	**7/1/2013**	**7/1/2013**	**7/1/2013**	**7/1/2013**	**7/1/2013**	**7/1/2013**
Sample Depth:		**18-20 ft BGS**	**2-4 ft BGS**	**2-4 ft BGS**	**20-22 ft BGS**	**26.8-28.7 ft BGS**	**2-4 ft BGS**	**35.5-37.5 ft BGS**
		Duplicate		**Duplicate**				
Parameters	**Units**							
Selenium	mg/kg	-	-	-	-	-	-	-
Silver	mg/kg	-	-	-	-	-	-	-
Sodium	mg/kg	-	-	-	-	-	-	-
Thallium	mg/kg	-	-	-	-	-	-	-
Vanadium	mg/kg	-	-	-	-	-	-	-
Zinc	mg/kg	-	-	-	-	-	-	-
PCBs								
Aroclor-1016 (PCB-1016)	ug/kg	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	ug/kg	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	ug/kg	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	ug/kg	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/kg	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/kg	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/kg	-	-	-	-	-	-	-
Pesticides								
4,4'-DDD	ug/kg	-	-	-	-	-	-	-
4,4'-DDE	ug/kg	-	-	-	-	-	-	-
4,4'-DDT	ug/kg	-	-	-	-	-	-	-
Aldrin	ug/kg	-	-	-	-	-	-	-
alpha-BHC	ug/kg	-	-	-	-	-	-	-
alpha-Chlordane	ug/kg	-	-	-	-	-	-	-
beta-BHC	ug/kg	-	-	-	-	-	-	-
delta-BHC	ug/kg	-	-	-	-	-	-	-
Dieldrin	ug/kg	-	-	-	-	-	-	-
Endosulfan I	ug/kg	-	-	-	-	-	-	-
Endosulfan II	ug/kg	-	-	-	-	-	-	-
Endosulfan sulfate	ug/kg	-	-	-	-	-	-	-
Endrin	ug/kg	-	-	-	-	-	-	-
Endrin aldehyde	ug/kg	-	-	-	-	-	-	-
Endrin ketone	ug/kg	-	-	-	-	-	-	-
gamma-BHC (lindane)	ug/kg	-	-	-	-	-	-	-
gamma-Chlordane	ug/kg	-	-	-	-	-	-	-
Heptachlor	ug/kg	-	-	-	-	-	-	-
Heptachlor epoxide	ug/kg	-	-	-	-	-	-	-
Methoxychlor	ug/kg	-	-	-	-	-	-	-
Toxaphene	ug/kg	-	-	-	-	-	-	-
Herbicides								
2,4,5-TP (Silvex)	ug/kg	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	-	-	-	-	-	-	-
Dioxin/Furans								
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-

Table 13

Summary of Analytical Results
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH40-13**	**BH42-13**	**BH42-13**	**BH42-13**	**BH43-13**	**BH44-13**	**BH44-13**
Sample ID:		**S-38443-062813-JT-067**	**S-38443-070113-JT-069**	**S-38443-070113-JT-080**	**S-38443-070113-JT-081**	**S-38443-070113-JC-074**	**S-38443-070113-JT-084**	**S-38443-070113-JT-085**
Sample Date:		**6/28/2013**	**7/1/2013**	**7/1/2013**	**7/1/2013**	**7/1/2013**	**7/1/2013**	**7/1/2013**
Sample Depth:		**18-20 ft BGS**	**2-4 ft BGS**	**2-4 ft BGS**	**20-22 ft BGS**	**26.8-28.7 ft BGS**	**2-4 ft BGS**	**35.5-37.5 ft BGS**
		Duplicate		**Duplicate**				
Parameters	**Units**							
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Asbestos								
Asbestos	%	-	-	-	-	-	-	-
Chrysotile asbestos	%	-	-	-	-	-	-	-
Geotechnical								
Coarse sand	%	-	-	-	-	-	-	-
Fine sand	%	-	-	-	-	-	-	-
Fines	%	-	-	-	-	-	-	-
Gravel	%	-	-	-	-	-	-	-
Medium sand	%	-	-	-	-	-	-	-
Sand	%	-	-	-	-	-	-	-
Sieve, #4	% passed	-	-	-	-	-	-	-
Sieve, #10	% passed	-	-	-	-	-	-	-
Sieve, #20	% passed	-	-	-	-	-	-	-
Sieve, #40	% passed	-	-	-	-	-	-	-
Sieve, #60	% passed	-	-	-	-	-	-	-
Sieve, #80	% passed	-	-	-	-	-	-	-
Sieve, #100	% passed	-	-	-	-	-	-	-
Sieve, #200	% passed	-	-	-	-	-	-	-
Sieve, 0.375 inch	% passed	-	-	-	-	-	-	-
Sieve, 0.75 inch	% passed	-	-	-	-	-	-	-
Sieve, 1 inch	% passed	-	-	-	-	-	-	-

Table 13

Summary of Analytical Results
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH40-13**	**BH42-13**	**BH42-13**	**BH42-13**	**BH43-13**	**BH44-13**	**BH44-13**
Sample ID:		**S-38443-062813-JT-067**	**S-38443-070113-JT-069**	**S-38443-070113-JT-080**	**S-38443-070113-JT-081**	**S-38443-070113-JC-074**	**S-38443-070113-JT-084**	**S-38443-070113-JT-085**
Sample Date:		**6/28/2013**	**7/1/2013**	**7/1/2013**	**7/1/2013**	**7/1/2013**	**7/1/2013**	**7/1/2013**
Sample Depth:		**18-20 ft BGS**	**2-4 ft BGS**	**2-4 ft BGS**	**20-22 ft BGS**	**26.8-28.7 ft BGS**	**2-4 ft BGS**	**35.5-37.5 ft BGS**
		Duplicate		**Duplicate**				
Parameters	**Units**							
Sieve, 1.5 inch	% passed	-	-	-	-	-	-	-
Sieve, 2 inch	% passed	-	-	-	-	-	-	-
Sieve, 3 inch	% passed	-	-	-	-	-	-	-
General Chemistry								
Cellulose	%	-	-	-	-	-	-	-
Cyanide (total)	mg/kg	-	-	-	-	-	-	-
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-

Notes
< - Less than reported value.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 13

Summary of Analytical Results
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH44-13**	**BH44-13**	**BH136-18**	**BH136-18**	**BH136-18**	**BH137-18**	**BH137-18**
Sample ID:		**S-38443-070213-JT-084**	**S-38443-070213-JT-085**	**S-38443-010818-JC-032**	**S-38443-010818-JC-033**	**S-38443-010818-JC-034**	**S-38443-010818-JC-030**	**S-38443-010818-JC-031**
Sample Date:		**7/2/2013**	**7/2/2013**	**1/8/2018**	**1/8/2018**	**1/8/2018**	**1/8/2018**	**1/8/2018**
Sample Depth:		**2-4 ft BGS**	**35.5-37.5 ft BGS**	**1-3 ft BGS**	**1-3 ft BGS**	**15-17 ft BGS**	**13-15 ft BGS**	**26-28 ft BGS**
					Duplicate			
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/kg	-	-	29 U	28 U	150 UJ	71 U	190 UJ
1,1,2,2-Tetrachloroethane	ug/kg	-	-	25 U	24 U	130 UJ	61 U	170 UJ
1,1,2-Trichloroethane	ug/kg	-	-	24 U	23 U	130 UJ	58 U	160 UJ
1,1-Dichloroethane	ug/kg	-	-	32 U	31 U	170 UJ	79 U	220 UJ
1,1-Dichloroethene	ug/kg	-	-	37 U	36 U	200 UJ	91 U	250 UJ
1,2,4-Trichlorobenzene	ug/kg	-	-	27 U	26 U	140 UJ	66 U	180 UJ
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	-	-	50 U	48 U	260 UJ	120 U	330 UJ
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	-	-	24 U	23 U	130 UJ	58 U	160 UJ
1,2-Dichlorobenzene	ug/kg	-	-	19 U	18 U	99 UJ	46 U	130 UJ
1,2-Dichloroethane	ug/kg	-	-	31 U	30 U	1200 J	76 U	210 UJ
1,2-Dichloropropane	ug/kg	-	-	31 U	30 U	1800 J	76 U	210 UJ
1,3-Dichlorobenzene	ug/kg	-	-	39 U	38 U	210 UJ	96 U	260 UJ
1,4-Dichlorobenzene	ug/kg	-	-	28 U	27 U	150 UJ	69 U	190 UJ
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	-	-	52 U	50 U	270 UJ	130 U	350 UJ
2-Hexanone	ug/kg	-	-	89 U	87 U	470 UJ	220 U	600 UJ
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	-	-	41 U	40 U	220 UJ	100 U	280 UJ
Acetone	ug/kg	-	-	100 U	98 U	530 UJ	250 U	670 UJ
Benzene	ug/kg	-	-	37 J	29 J	11000 J	61 U	170 UJ
Bromodichloromethane	ug/kg	-	-	19 U	18 U	99 UJ	46 U	130 UJ
Bromoform	ug/kg	-	-	24 U	23 U	130 UJ	58 U	160 UJ
Bromomethane (Methyl bromide)	ug/kg	-	-	29 U	28 U	150 UJ	71 U	190 UJ
Carbon disulfide	ug/kg	-	-	19 U	18 U	99 UJ	46 U	130 UJ
Carbon tetrachloride	ug/kg	-	-	28 U	27 U	150 UJ	69 U	190 UJ
Chlorobenzene	ug/kg	-	-	31 U	30 U	160 UJ	76 U	210 UJ
Chloroethane	ug/kg	-	-	29 U	28 U	150 UJ	71 U	190 UJ
Chloroform (Trichloromethane)	ug/kg	-	-	25 U	24 U	130 UJ	61 U	170 UJ
Chloromethane (Methyl chloride)	ug/kg	-	-	19 U	18 U	99 UJ	46 U	130 UJ
cis-1,2-Dichloroethene	ug/kg	-	-	4200	3300	35000 J	890	2100 J
cis-1,3-Dichloropropene	ug/kg	-	-	24 U	23 U	130 UJ	58 U	160 UJ
Cyclohexane	ug/kg	-	-	43 J	34 J	250 J	76 U	210 UJ
Dibromochloromethane	ug/kg	-	-	35 U	34 U	190 UJ	86 U	240 UJ
Dichlorodifluoromethane (CFC-12)	ug/kg	-	-	23 U	22 U	120 UJ	56 U	150 UJ
Ethylbenzene	ug/kg	-	-	36 U	35 U	6300 J	89 U	240 UJ
Isopropyl benzene	ug/kg	-	-	35 U	34 U	270 J	86 U	240 UJ
Methyl acetate	ug/kg	-	-	77 U	75 U	410 UJ	190 U	520 UJ
Methyl cyclohexane	ug/kg	-	-	770	700	2200 J	94 U	260 UJ
Methyl tert butyl ether (MTBE)	ug/kg	-	-	27 U	26 U	140 UJ	66 U	180 UJ
Methylene chloride	ug/kg	-	-	67 U	65 U	360 UJ	160 U	450 UJ
Styrene	ug/kg	-	-	10 U	10 U	55 UJ	25 U	70 UJ
Tetrachloroethene	ug/kg	-	-	22 U	21 U	120 UJ	1300	2500 J
Toluene	ug/kg	-	-	200 J	150 J	15000 J	61 U	170 UJ
trans-1,2-Dichloroethene	ug/kg	-	-	53 J	46 J	300 J	89 U	240 UJ
trans-1,3-Dichloropropene	ug/kg	-	-	15 U	15 U	82 UJ	38 U	100 UJ
Trichloroethene	ug/kg	-	-	96 J	75 J	1500 J	11000	28000 J
Trichlorofluoromethane (CFC-11)	ug/kg	-	-	35 U	34 U	190 UJ	86 U	240 UJ

Table 13

Summary of Analytical Results
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH44-13**	**BH44-13**	**BH136-18**	**BH136-18**	**BH136-18**	**BH137-18**	**BH137-18**
Sample ID:		**S-38443-070213-JT-084**	**S-38443-070213-JT-085**	**S-38443-010818-JC-032**	**S-38443-010818-JC-033**	**S-38443-010818-JC-034**	**S-38443-010818-JC-030**	**S-38443-010818-JC-031**
Sample Date:		**7/2/2013**	**7/2/2013**	**1/8/2018**	**1/8/2018**	**1/8/2018**	**1/8/2018**	**1/8/2018**
Sample Depth:		**2-4 ft BGS**	**35.5-37.5 ft BGS**	**1-3 ft BGS**	**1-3 ft BGS**	**15-17 ft BGS**	**13-15 ft BGS**	**26-28 ft BGS**
					Duplicate			
Parameters	**Units**							
Trifluorotrichloroethane (CFC-113)	ug/kg	-	-	24 U	23 U	130 UJ	58 U	160 UJ
Vinyl chloride	ug/kg	-	-	89 J	78 J	1100 J	43 U	120 UJ
Xylenes (total)	ug/kg	-	-	63 J	42 J	7400 J	71 U	190 UJ
Semi-Volatiles								
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	-	-	100 U	100 U	240 U	44 U	120 U
2,4,5-Trichlorophenol	ug/kg	-	-	260 U	270 U	640 U	110 U	310 U
2,4,6-Trichlorophenol	ug/kg	-	-	94 U	96 U	230 U	41 U	110 U
2,4-Dichlorophenol	ug/kg	-	-	210 U	210 U	510 U	92 U	250 U
2,4-Dimethylphenol	ug/kg	-	-	210 U	210 U	510 U	92 U	250 U
2,4-Dinitrophenol	ug/kg	-	-	220 U	230 U	540 U	96 U	260 U
2,4-Dinitrotoluene	ug/kg	-	-	180 U	180 U	440 U	78 U	210 U
2,6-Dinitrotoluene	ug/kg	-	-	220 U	230 U	540 U	96 U	260 U
2-Chloronaphthalene	ug/kg	-	-	4.8 U	4.8 U	12 U	2.1 U	5.6 U
2-Chlorophenol	ug/kg	-	-	87 U	88 U	210 U	38 U	100 U
2-Methylnaphthalene	ug/kg	-	-	300	440	860	450	410
2-Methylphenol	ug/kg	-	-	120 U	120 U	280 U	51 U	140 U
2-Nitroaniline	ug/kg	-	-	96 U	98 U	230 U	42 U	110 U
2-Nitrophenol	ug/kg	-	-	88 U	89 U	210 U	38 U	100 U
3&4-Methylphenol	ug/kg	-	-	210 U	210 U	1400 J	98 J	250 U
3,3'-Dichlorobenzidine	ug/kg	-	-	190 U	190 U	460 U	83 U	220 U
3-Nitroaniline	ug/kg	-	-	170 U	170 U	410 U	73 U	200 U
4,6-Dinitro-2-methylphenol	ug/kg	-	-	97 U	99 U	240 U	42 U	110 U
4-Bromophenyl phenyl ether	ug/kg	-	-	140 U	140 U	330 U	60 U	160 U
4-Chloro-3-methylphenol	ug/kg	-	-	220 U	230 U	540 U	96 U	260 U
4-Chloroaniline	ug/kg	-	-	180 U	180 U	440 U	78 U	210 U
4-Chlorophenyl phenyl ether	ug/kg	-	-	140 U	140 U	330 U	60 U	160 U
4-Methylphenol	ug/kg	-	-	-	-	-	-	-
4-Nitroaniline	ug/kg	-	-	280 U	280 U	670 U	120 U	320 U
4-Nitrophenol	ug/kg	-	-	180 U	180 U	440 U	78 U	210 U
Acenaphthene	ug/kg	-	-	49 J	8.2 U	290	290	300
Acenaphthylene	ug/kg	-	-	3.7 U	3.8 U	9.0 U	1.6 U	4.3 U
Acetophenone	ug/kg	-	-	97 U	99 U	240 U	42 U	110 U
Anthracene	ug/kg	-	-	78	69 J	180	280	900
Atrazine	ug/kg	-	-	96 U	98 U	230 U	42 U	110 U
Benzaldehyde	ug/kg	-	-	130 U	130 U	310 U	55 U	150 U
Benzo(a)anthracene	ug/kg	-	-	280 J	500 J	410	330	870
Benzo(a)pyrene	ug/kg	-	-	370 J	780 J	420	250	700
Benzo(b)fluoranthene	ug/kg	-	-	720 J	1800 J	700	530	1100
Benzo(g,h,i)perylene	ug/kg	-	-	160 J	520 J	9.0 U	83	230
Benzo(k)fluoranthene	ug/kg	-	-	190 J	600 J	220	150	450
Biphenyl (1,1-Biphenyl)	ug/kg	-	-	81 J	92 J	340 J	160 J	530 J
bis(2-Chloroethoxy)methane	ug/kg	-	-	230 U	240 U	560 U	100 U	270 U
bis(2-Chloroethyl)ether	ug/kg	-	-	21 U	21 U	51 U	9.2 U	25 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	-	-	510 J	200 U	490 U	87 U	230 U
Butyl benzylphthalate (BBP)	ug/kg	-	-	110 U	110 U	260 U	46 U	120 U

Table 13

Summary of Analytical Results
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH44-13**	**BH44-13**	**BH136-18**	**BH136-18**	**BH136-18**	**BH137-18**	**BH137-18**
Sample ID:		**S-38443-070213-JT-084**	**S-38443-070213-JT-085**	**S-38443-010818-JC-032**	**S-38443-010818-JC-033**	**S-38443-010818-JC-034**	**S-38443-010818-JC-030**	**S-38443-010818-JC-031**
Sample Date:		**7/2/2013**	**7/2/2013**	**1/8/2018**	**1/8/2018**	**1/8/2018**	**1/8/2018**	**1/8/2018**
Sample Depth:		**2-4 ft BGS**	**35.5-37.5 ft BGS**	**1-3 ft BGS**	**1-3 ft BGS**	**15-17 ft BGS**	**13-15 ft BGS**	**26-28 ft BGS**
					Duplicate			
Parameters	**Units**							
Caprolactam	ug/kg	-	-	390 U	400 U	950 U	170 U	460 U
Carbazole	ug/kg	-	-	290 U	290 U	690 U	120 U	330 U
Chrysene	ug/kg	-	-	350 J	800 J	760	430	970
Dibenz(a,h)anthracene	ug/kg	-	-	7.0 U	7.1 U	17 U	3.0 U	8.1 U
Dibenzofuran	ug/kg	-	-	98 J	140 J	17 U	280	360 J
Diethyl phthalate	ug/kg	-	-	170 U	170 U	410 U	73 U	200 U
Dimethyl phthalate	ug/kg	-	-	180 U	180 U	440 U	78 U	210 U
Di-n-butylphthalate (DBP)	ug/kg	-	-	160 U	160 U	380 U	69 U	190 U
Di-n-octyl phthalate (DnOP)	ug/kg	-	-	84 U	85 U	200 U	36 U	97 U
Fluoranthene	ug/kg	-	-	640	730	940	1500	4000
Fluorene	ug/kg	-	-	95	63 J	240	300	470
Hexachlorobenzene	ug/kg	-	-	22 U	23 U	54 U	9.6 U	350
Hexachlorobutadiene	ug/kg	-	-	59 U	60 U	140 U	26 U	69 U
Hexachlorocyclopentadiene	ug/kg	-	-	86 U	87 U	210 U	37 U	100 U
Hexachloroethane	ug/kg	-	-	95 U	97 U	230 U	41 U	110 U
Indeno(1,2,3-cd)pyrene	ug/kg	-	-	190 J	420 J	9.0 U	76	200
Isophorone	ug/kg	-	-	140 U	140 U	330 U	60 U	160 U
Naphthalene	ug/kg	-	-	230	350	540	670	590
Nitrobenzene	ug/kg	-	-	23 U	24 U	56 U	10 U	27 U
N-Nitrosodi-n-propylamine	ug/kg	-	-	67 U	68 U	160 U	29 U	78 U
N-Nitrosodiphenylamine	ug/kg	-	-	220 U	230 U	540 U	100 J	260 U
Pentachlorophenol	ug/kg	-	-	96 U	98 U	230 U	42 U	110 U
Phenanthrene	ug/kg	-	-	570	510	1400	2500	6700
Phenol	ug/kg	-	-	77 U	78 U	700 J	640	380 J
Pyrene	ug/kg	-	-	670	810	1000	1500	3100
Metals								
Aluminum	mg/kg	-	-	2400	4500	7200	6100	8500
Antimony	mg/kg	-	-	0.41 J	0.42 J	2.9 J	5.3 J	7.2 J
Arsenic	mg/kg	-	-	6.2	5.2	120	19	25
Barium	mg/kg	-	-	79	130	390	1900	1800
Beryllium	mg/kg	-	-	0.33	0.41	2.9	0.68	1.1
Cadmium	mg/kg	-	-	0.28	0.42	53	4.5	8.4
Calcium	mg/kg	-	-	110000	49000	27000	22000	36000
Chromium	mg/kg	-	-	44	61	82	75	140
Chromium III (trivalent)	mg/kg	-	-	44	60	82	73	140
Chromium VI (hexavalent)	mg/kg	-	-	0.26 U	1.0	0.31 U	1.7 J	1.5 U
Cobalt	mg/kg	-	-	3.0	3.6	15	11	28
Copper	mg/kg	-	-	200	190	460	1300	4700
Iron	mg/kg	-	-	11000	23000	41000	100000	89000
Lead	mg/kg	-	-	120	180	390	1100	1200
Magnesium	mg/kg	-	-	45000	24000	5400	6200	10000
Manganese	mg/kg	-	-	230	360	370	320	1500
Mercury	mg/kg	-	-	0.021 UJ	0.81 J	0.35	0.15	0.88
Nickel	mg/kg	-	-	11	12	37	44	140
Potassium	mg/kg	-	-	380	560	910	1200	1300

Table 13

Summary of Analytical Results
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH44-13**	**BH44-13**	**BH136-18**	**BH136-18**	**BH136-18**	**BH137-18**	**BH137-18**
Sample ID:		**S-38443-070213-JT-084**	**S-38443-070213-JT-085**	**S-38443-010818-JC-032**	**S-38443-010818-JC-033**	**S-38443-010818-JC-034**	**S-38443-010818-JC-030**	**S-38443-010818-JC-031**
Sample Date:		**7/2/2013**	**7/2/2013**	**1/8/2018**	**1/8/2018**	**1/8/2018**	**1/8/2018**	**1/8/2018**
Sample Depth:		**2-4 ft BGS**	**35.5-37.5 ft BGS**	**1-3 ft BGS**	**1-3 ft BGS**	**15-17 ft BGS**	**13-15 ft BGS**	**26-28 ft BGS**
					Duplicate			
Parameters	**Units**							
Selenium	mg/kg	-	-	0.65 J	0.52 J	5.0	1.5	2.0
Silver	mg/kg	-	-	0.32 J	5.0 J	1.8	1.4	3.0
Sodium	mg/kg	-	-	190	260	580	720	830
Thallium	mg/kg	-	-	0.10 J	0.086 J	0.41	0.14 J	0.25
Vanadium	mg/kg	-	-	11	12	41	14	28
Zinc	mg/kg	-	-	39	87	4300	2200	6100
PCBs								
Aroclor-1016 (PCB-1016)	ug/kg	35 U	36 U	110 U	23 U	28 U	120 U	130 U
Aroclor-1221 (PCB-1221)	ug/kg	35 U	36 U	130 U	25 U	31 U	130 U	150 U
Aroclor-1232 (PCB-1232)	ug/kg	35 U	36 U	120 U	24 U	29 U	130 U	140 U
Aroclor-1242 (PCB-1242)	ug/kg	53	36 U	99 U	20 U	24 U	400	280 J
Aroclor-1248 (PCB-1248)	ug/kg	35 U	36 U	130 U	25 U	31 U	130 U	150 U
Aroclor-1254 (PCB-1254)	ug/kg	35 U	36 U	2000 J	440 J	65	2700	1700
Aroclor-1260 (PCB-1260)	ug/kg	58 J	36 U	110 U	23 U	28 U	120 U	130 U
Pesticides								
4,4'-DDD	ug/kg	-	-	69 U	34 U	4.2 U	73 U	80 U
4,4'-DDE	ug/kg	-	-	25 U	12 U	1.5 U	27 U	29 U
4,4'-DDT	ug/kg	-	-	29 U	14 U	6.8	31 U	61 NJ
Aldrin	ug/kg	-	-	50 U	25 U	3.1 U	53 U	58 U
alpha-BHC	ug/kg	-	-	33 U	16 U	2.0 U	36 U	39 U
alpha-Chlordane	ug/kg	-	-	79 U	39 U	4.8 U	84 U	93 U
beta-BHC	ug/kg	-	-	81 U	40 U	5.0 U	87 U	95 U
delta-BHC	ug/kg	-	-	27 U	13 U	1.7 U	29 U	32 U
Dieldrin	ug/kg	-	-	19 U	9.3 U	1.1 U	20 U	22 U
Endosulfan I	ug/kg	-	-	27 U	13 U	1.7 U	29 U	32 U
Endosulfan II	ug/kg	-	-	38 U	19 U	2.3 U	40 U	44 U
Endosulfan sulfate	ug/kg	-	-	25 U	12 U	1.5 U	27 U	29 U
Endrin	ug/kg	-	-	29 U	14 U	1.8 U	31 U	34 U
Endrin aldehyde	ug/kg	-	-	38 U	19 U	230 U	40 U	44 U
Endrin ketone	ug/kg	-	-	23 U	11 U	1.4 U	24 U	27 U
gamma-BHC (lindane)	ug/kg	-	-	61 U	30 U	3.7 U	64 U	71 U
gamma-Chlordane	ug/kg	-	-	31 U	15 U	1.9 U	33 U	37 U
Heptachlor	ug/kg	-	-	16 U	8.0 U	0.99 U	17 U	19 U
Heptachlor epoxide	ug/kg	-	-	50 U	25 U	3.1 U	53 U	58 U
Methoxychlor	ug/kg	-	-	25 U	12 U	1.5 U	27 U	29 U
Toxaphene	ug/kg	-	-	770 U	380 U	47 U	820 U	900 U
Herbicides								
2,4,5-TP (Silvex)	ug/kg	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	-	-	-	-	-	-	-
Dioxin/Furans								
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	43 J	35	17 J	7.4 J	670
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	410	480	130	700	4600

Table 13

Summary of Analytical Results
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH44-13**	**BH44-13**	**BH136-18**	**BH136-18**	**BH136-18**	**BH137-18**	**BH137-18**
Sample ID:		**S-38443-070213-JT-084**	**S-38443-070213-JT-085**	**S-38443-010818-JC-032**	**S-38443-010818-JC-033**	**S-38443-010818-JC-034**	**S-38443-010818-JC-030**	**S-38443-010818-JC-031**
Sample Date:		**7/2/2013**	**7/2/2013**	**1/8/2018**	**1/8/2018**	**1/8/2018**	**1/8/2018**	**1/8/2018**
Sample Depth:		**2-4 ft BGS**	**35.5-37.5 ft BGS**	**1-3 ft BGS**	**1-3 ft BGS**	**15-17 ft BGS**	**13-15 ft BGS**	**26-28 ft BGS**
					Duplicate			
Parameters	**Units**							
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	120	85	40 J	95	430
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	120	140	39 J	630	820
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	8.5 J	6.9	3.7 J	1.8 J	22
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	65	48 J	28 J	19 J	160 J
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	0.39 U	4.0 J	2.6 J	48 J	25
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	23 J	16	13 J	25 J	69 J
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	16 J	18	5.6 J	310	110
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	2.0 U	0.88 J	2.4 U	1.5 U	7.5 U
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	16 J	15	5.8 J	450	140
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	15 J	15	8.6 J	12 J	32
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	6.3 U	15 U	4.3 J	290	83
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	21 J	17	11 J	29 J	110 J
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	29 J	30	12 J	23 J	73
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	110	200	8.5 J	14 J	34 J
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	2.0 J	1.3 J	0.88 U	78	22
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	180 J	140 J	58 J	120 J	850 J
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	260 J	300 J	80 J	1300 J	1600 J
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	230 J	190 J	97 J	370 J	1100 J
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	150 J	160 J	57 J	3200 J	1100 J
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	300 J	290 J	140 J	550 J	1900 J
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	5900 J	12000 J	50 J	2400 J	3500 J
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	600 J	720 J	250 J	820 J	3300 J
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	60 J	38 J	29 J	1300 J	530 J
Asbestos								
Asbestos	%	-	-	ND	-	ND	ND	ND
Chrysotile asbestos	%	-	-	-	-	-	-	-
Geotechnical								
Coarse sand	%	-	-	-	-	-	-	-
Fine sand	%	-	-	-	-	-	-	-
Fines	%	-	-	-	-	-	-	-
Gravel	%	-	-	-	-	-	-	-
Medium sand	%	-	-	-	-	-	-	-
Sand	%	-	-	-	-	-	-	-
Sieve, #4	% passed	-	-	-	-	-	-	-
Sieve, #10	% passed	-	-	-	-	-	-	-
Sieve, #20	% passed	-	-	-	-	-	-	-
Sieve, #40	% passed	-	-	-	-	-	-	-
Sieve, #60	% passed	-	-	-	-	-	-	-
Sieve, #80	% passed	-	-	-	-	-	-	-
Sieve, #100	% passed	-	-	-	-	-	-	-
Sieve, #200	% passed	-	-	-	-	-	-	-
Sieve, 0.375 inch	% passed	-	-	-	-	-	-	-
Sieve, 0.75 inch	% passed	-	-	-	-	-	-	-
Sieve, 1 inch	% passed	-	-	-	-	-	-	-

Table 13

Summary of Analytical Results
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH44-13**	**BH44-13**	**BH136-18**	**BH136-18**	**BH136-18**	**BH137-18**	**BH137-18**
Sample ID:		**S-38443-070213-JT-084**	**S-38443-070213-JT-085**	**S-38443-010818-JC-032**	**S-38443-010818-JC-033**	**S-38443-010818-JC-034**	**S-38443-010818-JC-030**	**S-38443-010818-JC-031**
Sample Date:		**7/2/2013**	**7/2/2013**	**1/8/2018**	**1/8/2018**	**1/8/2018**	**1/8/2018**	**1/8/2018**
Sample Depth:		**2-4 ft BGS**	**35.5-37.5 ft BGS**	**1-3 ft BGS**	**1-3 ft BGS**	**15-17 ft BGS**	**13-15 ft BGS**	**26-28 ft BGS**
					Duplicate			
Parameters	**Units**							
Sieve, 1.5 inch	% passed	-	-	-	-	-	-	-
Sieve, 2 inch	% passed	-	-	-	-	-	-	-
Sieve, 3 inch	% passed	-	-	-	-	-	-	-
General Chemistry								
Cellulose	%	-	-	-	-	-	-	-
Cyanide (total)	mg/kg	-	-	0.13 J	0.21 J	8.5	0.31 J	0.35 J
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-

Notes
< - Less than reported value.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 13

Summary of Analytical Results
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH138-18**	**BH139-18**	**BH140-18**	**BH141-18**	**BH142-18**	**GP01-18**	**GP32-18**
Sample ID:		**S-38443-010918-JC-035**	**S-38443-010418-JC-028**	**S-38443-010818-JC-029**	**S-38443-010918-JC-036**	**S-38443-010418-JC-027**	**S-38443-012518-JC-064**	**S-38443-011018-JC-037**
Sample Date:		**1/9/2018**	**1/4/2018**	**1/8/2018**	**1/9/2018**	**1/4/2018**	**1/25/2018**	**1/10/2018**
Sample Depth:		**8-10 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**	**6-8 ft BGS**	**8-10 ft BGS**	**5.5-6.5 ft bgs**	**10-11 ft BGS**
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/kg	0.33 U	170 U	0.32 U	85 UJ	0.24 U	530 U	0.30 U
1,1,2,2-Tetrachloroethane	ug/kg	0.38 U	140 U	R	73 U	0.27 U	460 U	0.34 U
1,1,2-Trichloroethane	ug/kg	0.57 U	140 U	0.54 U	70 U	0.41 U	440 U	0.50 U
1,1-Dichloroethane	ug/kg	0.48 U	180 U	1.1 J	94 U	0.34 U	590 U	0.43 U
1,1-Dichloroethene	ug/kg	0.79 U	210 U	3.5 J	110 U	0.56 U	680 U	0.70 U
1,2,4-Trichlorobenzene	ug/kg	0.35 U	150 U	R	79 U	0.25 U	490 U	0.31 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	0.99 U	280 U	R	150 U	0.71 U	910 U	0.88 U
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	0.51 U	140 U	0.48 U	70 U	0.36 U	440 U	0.45 U
1,2-Dichlorobenzene	ug/kg	0.32 U	110 U	R	54 U	0.23 U	340 U	0.28 U
1,2-Dichloroethane	ug/kg	0.42 U	180 U	0.40 U	91 U	0.30 U	570 U	0.38 U
1,2-Dichloropropane	ug/kg	0.45 U	180 U	0.43 U	91 U	0.32 U	570 U	0.40 U
1,3-Dichlorobenzene	ug/kg	0.42 U	220 U	R	110 U	0.30 U	720 U	0.38 U
1,4-Dichlorobenzene	ug/kg	0.51 U	160 U	R	82 U	0.36 U	510 U	0.45 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	12 J	290 U	1.7 U	170 J	2.1 J	950 U	1.6 U
2-Hexanone	ug/kg	0.84 U	510 U	0.80 U	260 U	0.60 U	1600 U	0.75 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	1.3 U	240 U	1.2 U	120 U	0.93 U	760 U	1.2 U
Acetone	ug/kg	79	570 U	34 J	1400 J	33	1800 U	4.0 U
Benzene	ug/kg	0.47 U	140 U	2.6 J	140 J	0.33 U	460 U	0.41 U
Bromodichloromethane	ug/kg	0.48 U	110 U	0.45 U	54 U	0.34 U	340 U	0.43 U
Bromoform	ug/kg	0.58 UJ	140 U	0.55 U	70 U	0.42 U	440 U	0.52 U
Bromomethane (Methyl bromide)	ug/kg	0.86 U	170 U	0.81 U	85 U	0.61 U	530 U	0.76 U
Carbon disulfide	ug/kg	1.8 J	110 U	0.29 U	54 U	0.38 J	340 U	0.27 U
Carbon tetrachloride	ug/kg	0.36 U	160 U	0.34 U	82 U	0.26 U	510 U	0.32 U
Chlorobenzene	ug/kg	0.48 U	180 U	0.45 U	26000	0.34 U	100000	0.43 U
Chloroethane	ug/kg	0.55 U	170 U	0.52 U	85 U	0.40 U	530 U	0.49 U
Chloroform (Trichloromethane)	ug/kg	0.33 U	140 U	0.32 U	73 U	0.24 U	460 U	0.30 U
Chloromethane (Methyl chloride)	ug/kg	0.55 U	110 U	0.52 U	54 U	0.40 U	340 U	0.49 U
cis-1,2-Dichloroethene	ug/kg	0.41 U	330 J	150	240 J	0.29 U	670 U	0.36 U
cis-1,3-Dichloropropene	ug/kg	0.38 U	140 U	0.36 U	70 U	0.27 U	440 U	0.34 U
Cyclohexane	ug/kg	0.31 U	180 U	0.29 U	91 U	0.22 U	570 U	0.27 U
Dibromochloromethane	ug/kg	0.44 U	200 U	0.41 U	100 U	0.31 U	650 U	0.39 U
Dichlorodifluoromethane (CFC-12)	ug/kg	0.51 U	130 U	0.48 U	66 U	0.36 U	420 U	0.45 U
Ethylbenzene	ug/kg	0.39 U	210 U	0.37 U	270 J	0.28 U	670 U	0.35 U
Isopropyl benzene	ug/kg	0.29 U	200 U	0.28 U	100 U	0.21 U	650 U	0.26 U
Methyl acetate	ug/kg	1.7 U	440 U	1.6 U	230 U	1.2 U	1400 U	1.5 U
Methyl cyclohexane	ug/kg	0.33 U	220 U	0.32 U	210 J	0.24 U	700 UJ	0.30 U
Methyl tert butyl ether (MTBE)	ug/kg	0.39 U	150 U	0.37 U	79 U	0.28 U	490 U	0.35 U
Methylene chloride	ug/kg	13 U	380 U	0.33 U	150 U	1.3 U	2500 U	0.97 U
Styrene	ug/kg	0.39 U	59 U	0.37 U	30 U	0.28 U	190 U	0.35 U
Tetrachloroethene	ug/kg	0.54 U	40000	1.5 J	63 U	0.39 U	400 U	0.48 U
Toluene	ug/kg	0.49 U	140 U	0.47 U	180 J	3.3 J	460 U	1.3 J
trans-1,2-Dichloroethene	ug/kg	0.55 U	210 U	9.9	110 U	0.40 U	670 U	0.49 U
trans-1,3-Dichloropropene	ug/kg	0.31 UJ	88 U	0.29 U	45 U	0.22 U	290 U	0.27 U
Trichloroethene	ug/kg	0.60 U	25000	15	430 J	0.75 J	700 U	1.5 J
Trichlorofluoromethane (CFC-11)	ug/kg	0.35 U	200 U	0.33 U	100 U	0.25 U	650 U	0.31 U

Table 13

Summary of Analytical Results
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH138-18**	**BH139-18**	**BH140-18**	**BH141-18**	**BH142-18**	**GP01-18**	**GP32-18**
Sample ID:		**S-38443-010918-JC-035**	**S-38443-010418-JC-028**	**S-38443-010818-JC-029**	**S-38443-010918-JC-036**	**S-38443-010418-JC-027**	**S-38443-012518-JC-064**	**S-38443-011018-JC-037**
Sample Date:		**1/9/2018**	**1/4/2018**	**1/8/2018**	**1/9/2018**	**1/4/2018**	**1/25/2018**	**1/10/2018**
Sample Depth:		**8-10 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**	**6-8 ft BGS**	**8-10 ft BGS**	**5.5-6.5 ft bgs**	**10-11 ft BGS**
Parameters	**Units**							
Trifluorotrichloroethane (CFC-113)	ug/kg	0.71 U	140 U	0.67 U	70 U	0.51 U	440 UJ	0.63 U
Vinyl chloride	ug/kg	0.41 U	100 U	3.0 J	51 U	0.29 U	320 U	0.36 U
Xylenes (total)	ug/kg	0.58 U	170 U	0.55 U	720 J	0.42 U	530 U	0.52 U
Semi-Volatiles								
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	13 U	240 U	24 U	16 U	500 U	-	-
2,4,5-Trichlorophenol	ug/kg	35 U	620 U	64 U	43 U	1300 U	-	-
2,4,6-Trichlorophenol	ug/kg	12 U	220 U	23 U	15 U	470 U	-	-
2,4-Dichlorophenol	ug/kg	28 U	490 U	51 U	34 U	1100 U	-	-
2,4-Dimethylphenol	ug/kg	28 U	490 U	51 U	34 U	1100 U	-	-
2,4-Dinitrophenol	ug/kg	29 U	520 U	53 U	36 U	1100 U	-	-
2,4-Dinitrotoluene	ug/kg	24 U	420 U	43 U	29 U	900 U	-	-
2,6-Dinitrotoluene	ug/kg	29 U	520 U	53 U	36 U	1100 U	-	-
2-Chloronaphthalene	ug/kg	0.63 U	11 U	1.1 U	0.77 U	24 U	-	-
2-Chlorophenol	ug/kg	11 U	200 U	21 U	14 U	440 U	-	-
2-Methylnaphthalene	ug/kg	27	460	51	1200	27 U	-	-
2-Methylphenol	ug/kg	25 J	270 U	28 U	19 U	580 U	-	-
2-Nitroaniline	ug/kg	13 U	230 U	23 U	16 U	480 U	-	-
2-Nitrophenol	ug/kg	12 U	210 U	21 U	14 U	440 U	-	-
3&4-Methylphenol	ug/kg	35 J	490 U	51 U	34 U	1100 U	-	-
3,3'-Dichlorobenzidine	ug/kg	25 U	450 U	46 U	31 U	960 U	-	-
3-Nitroaniline	ug/kg	22 U	400 U	41 U	27 U	850 U	-	-
4,6-Dinitro-2-methylphenol	ug/kg	13 U	230 U	23 U	16 U	490 U	-	-
4-Bromophenyl phenyl ether	ug/kg	18 U	320 U	33 U	22 U	690 U	-	-
4-Chloro-3-methylphenol	ug/kg	29 U	520 U	53 U	36 U	1100 U	-	-
4-Chloroaniline	ug/kg	24 U	420 U	43 U	29 U	900 U	-	-
4-Chlorophenyl phenyl ether	ug/kg	18 U	320 U	33 U	22 U	690 U	-	-
4-Methylphenol	ug/kg	-	-	-	-	-	-	-
4-Nitroaniline	ug/kg	36 U	640 U	66 U	44 U	1400 U	-	-
4-Nitrophenol	ug/kg	24 U	420 U	43 U	29 U	900 U	-	-
Acenaphthene	ug/kg	1.1 U	19 U	1.9 U	98	40 U	-	-
Acenaphthylene	ug/kg	0.49 U	8.7 U	8.7 J	27	19 U	-	-
Acetophenone	ug/kg	130 J	230 U	23 U	16 U	490 U	-	-
Anthracene	ug/kg	1.1 U	19 U	33	1.3 U	41 U	-	-
Atrazine	ug/kg	13 U	230 U	23 U	16 U	480 U	-	-
Benzaldehyde	ug/kg	150	300 U	36 J	20 U	640 U	-	-
Benzo(a)anthracene	ug/kg	23	16 U	52	41	430	-	-
Benzo(a)pyrene	ug/kg	31	16 U	36	1.1 U	34 U	-	-
Benzo(b)fluoranthene	ug/kg	52	15 U	96	60	660	-	-
Benzo(g,h,i)perylene	ug/kg	16	8.7 U	37	0.60 U	19 U	-	-
Benzo(k)fluoranthene	ug/kg	16	17 U	25	1.2 U	36 U	-	-
Biphenyl (1,1-Biphenyl)	ug/kg	40 J	110 J	51 J	180	250 J	-	-
bis(2-Chloroethoxy)methane	ug/kg	31 U	540 U	56 U	38 U	1200 U	-	-
bis(2-Chloroethyl)ether	ug/kg	2.8 U	49 U	5.1 U	3.4 U	110 U	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	26 U	470 U	2000	270	1000 U	-	-
Butyl benzylphthalate (BBP)	ug/kg	14 U	250 U	25 U	17 U	530 U	-	-

Table 13

Summary of Analytical Results
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH138-18**	**BH139-18**	**BH140-18**	**BH141-18**	**BH142-18**	**GP01-18**	**GP32-18**
Sample ID:		**S-38443-010918-JC-035**	**S-38443-010418-JC-028**	**S-38443-010818-JC-029**	**S-38443-010918-JC-036**	**S-38443-010418-JC-027**	**S-38443-012518-JC-064**	**S-38443-011018-JC-037**
Sample Date:		**1/9/2018**	**1/4/2018**	**1/8/2018**	**1/9/2018**	**1/4/2018**	**1/25/2018**	**1/10/2018**
Sample Depth:		**8-10 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**	**6-8 ft BGS**	**8-10 ft BGS**	**5.5-6.5 ft bgs**	**10-11 ft BGS**
Parameters	**Units**							
Caprolactam	ug/kg	51 U	920 U	94 U	63 U	2000 U	-	-
Carbazole	ug/kg	38 U	670 U	69 U	46 U	1400 U	-	-
Chrysene	ug/kg	29	27 U	100	73	1600	-	-
Dibenz(a,h)anthracene	ug/kg	0.92 U	16 U	1.7 U	1.1 U	35 U	-	-
Dibenzofuran	ug/kg	20 J	16 U	64 J	1.1 U	35 U	-	-
Diethyl phthalate	ug/kg	22 U	690 J	41 U	36 J	850 U	-	-
Dimethyl phthalate	ug/kg	24 U	420 U	43 U	680	900 U	-	-
Di-n-butylphthalate (DBP)	ug/kg	65 J	370 U	270	63 J	800 U	-	-
Di-n-octyl phthalate (DnOP)	ug/kg	11 U	200 U	20 U	13 U	420 U	-	-
Fluoranthene	ug/kg	42	330	180	170	1700	-	-
Fluorene	ug/kg	0.74 U	13 U	12 J	130	28 U	-	-
Hexachlorobenzene	ug/kg	2.9 U	52 U	5.3 U	3.6 U	110 U	-	-
Hexachlorobutadiene	ug/kg	7.8 U	140 U	14 U	9.6 U	300 U	-	-
Hexachlorocyclopentadiene	ug/kg	11 U	200 U	21 U	14 U	430 U	-	-
Hexachloroethane	ug/kg	13 U	220 U	23 U	15 U	480 U	-	-
Indeno(1,2,3-cd)pyrene	ug/kg	13	8.7 U	0.89 U	0.60 U	19 U	-	-
Isophorone	ug/kg	18 U	320 U	33 U	22 U	690 U	-	-
Naphthalene	ug/kg	50	240	25	1500	44 U	-	-
Nitrobenzene	ug/kg	3.1 U	54 U	5.6 U	3.8 U	120 U	-	-
N-Nitrosodi-n-propylamine	ug/kg	8.8 U	160 U	16 U	11 U	330 U	-	-
N-Nitrosodiphenylamine	ug/kg	29 U	520 U	53 U	36 U	1100 U	-	-
Pentachlorophenol	ug/kg	13 U	230 U	23 U	16 U	480 U	-	-
Phenanthrene	ug/kg	27	590	290	210	1900	-	-
Phenol	ug/kg	10 U	980 J	19 U	12 U	390 U	-	-
Pyrene	ug/kg	42	550	200	130	1200	-	-
Metals								
Aluminum	mg/kg	5500	2600	19000	5500	4600	-	-
Antimony	mg/kg	1.7	0.49	6.8 J	2.3	5.7	-	-
Arsenic	mg/kg	30	11	22	28	24	-	-
Barium	mg/kg	330	6200	2200	200	440	-	-
Beryllium	mg/kg	3.2	0.51	0.93	6.9	0.41	-	-
Cadmium	mg/kg	1.2	5.3	29	0.48	4.7	-	-
Calcium	mg/kg	24000	11000	30000	14000	30000	-	-
Chromium	mg/kg	24	300	120	90	320	-	-
Chromium III (trivalent)	mg/kg	24	300	120	89	320	-	-
Chromium VI (hexavalent)	mg/kg	0.34 U	3.0 U	1.5 U	1.1 J	0.26 U	-	-
Cobalt	mg/kg	11	37	17	18	21	-	-
Copper	mg/kg	56	2700	1500	250	1700	-	-
Iron	mg/kg	8500	23000	150000	13000	210000	-	-
Lead	mg/kg	75	16000	1700	590	350	-	-
Magnesium	mg/kg	10000	97000	12000	4600	6500	-	-
Manganese	mg/kg	70	400	520	78	1400	-	-
Mercury	mg/kg	0.081 J	0.058 J	3.9	1.1	0.76	-	-
Nickel	mg/kg	20	640	170	36	860	-	-
Potassium	mg/kg	720	360	1100	470	290	-	-

Table 13

Summary of Analytical Results
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH138-18**	**BH139-18**	**BH140-18**	**BH141-18**	**BH142-18**	**GP01-18**	**GP32-18**
Sample ID:		**S-38443-010918-JC-035**	**S-38443-010418-JC-028**	**S-38443-010818-JC-029**	**S-38443-010918-JC-036**	**S-38443-010418-JC-027**	**S-38443-012518-JC-064**	**S-38443-011018-JC-037**
Sample Date:		**1/9/2018**	**1/4/2018**	**1/8/2018**	**1/9/2018**	**1/4/2018**	**1/25/2018**	**1/10/2018**
Sample Depth:		**8-10 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**	**6-8 ft BGS**	**8-10 ft BGS**	**5.5-6.5 ft bgs**	**10-11 ft BGS**
Parameters	**Units**							
Selenium	mg/kg	5.6	1.3	1.5	38	0.80	-	-
Silver	mg/kg	0.10 J	0.52	2.9	0.26 J	3.7	-	-
Sodium	mg/kg	310	110 J	790	250 J	290	-	-
Thallium	mg/kg	0.51	0.28 J	0.20 J	2.4	0.095 J	-	-
Vanadium	mg/kg	38	15	23	79	37	-	-
Zinc	mg/kg	140	740	19000	80	1000	-	-
PCBs								
Aroclor-1016 (PCB-1016)	ug/kg	31 U	27 U	1300 U	38 U	23 U	-	-
Aroclor-1221 (PCB-1221)	ug/kg	34 U	30 U	1500 U	42 U	25 U	-	-
Aroclor-1232 (PCB-1232)	ug/kg	33 U	28 U	1400 U	40 U	24 U	-	-
Aroclor-1242 (PCB-1242)	ug/kg	130	23 U	29000	33 U	20 U	-	-
Aroclor-1248 (PCB-1248)	ug/kg	34 U	30 U	1500 U	59 J	25 U	-	-
Aroclor-1254 (PCB-1254)	ug/kg	33 U	94	10000	40 U	450 NJ	-	-
Aroclor-1260 (PCB-1260)	ug/kg	31 U	27 U	1300 U	38 U	23 U	-	-
Pesticides								
4,4'-DDD	ug/kg	94 U	82 U	200 U	110 U	36 U	-	-
4,4'-DDE	ug/kg	34 U	30 U	73 U	40 U	13 U	-	-
4,4'-DDT	ug/kg	40 U	35 U	85 U	46 U	15 U	-	-
Aldrin	ug/kg	69 U	60 U	150 U	80 U	26 U	-	-
alpha-BHC	ug/kg	46 U	40 U	97 U	53 U	17 U	-	-
alpha-Chlordane	ug/kg	110 U	95 U	230 U	130 U	41 U	-	-
beta-BHC	ug/kg	110 U	97 U	240 U	130 U	42 U	-	-
delta-BHC	ug/kg	37 U	32 U	79 U	130 J	14 U	-	-
Dieldrin	ug/kg	26 U	22 U	55 U	30 U	9.7 U	-	-
Endosulfan I	ug/kg	37 U	32 U	79 U	43 U	14 U	-	-
Endosulfan II	ug/kg	52 U	45 U	110 U	60 U	19 U	-	-
Endosulfan sulfate	ug/kg	34 U	30 U	73 U	40 U	13 U	-	-
Endrin	ug/kg	40 U	35 U	85 U	46 U	15 U	-	-
Endrin aldehyde	ug/kg	52 U	45 U	110 U	60 U	97 U	-	-
Endrin ketone	ug/kg	31 U	27 U	67 U	37 U	12 U	-	-
gamma-BHC (lindane)	ug/kg	83 U	72 U	180 U	96 U	31 U	-	-
gamma-Chlordane	ug/kg	43 U	37 U	91 U	50 U	16 U	-	-
Heptachlor	ug/kg	22 U	19 U	47 U	26 U	8.4 U	-	-
Heptachlor epoxide	ug/kg	69 U	60 U	150 U	80 U	26 U	-	-
Methoxychlor	ug/kg	34 U	30 U	73 U	40 U	13 U	-	-
Toxaphene	ug/kg	1100 U	920 U	2200 U	1200 U	400 U	-	-
Herbicides								
2,4,5-TP (Silvex)	ug/kg	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	-	-	-	-	-	-	-
Dioxin/Furans								
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	12 J	13	9.8 J	130	200 J	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	48	540	44	1200	580	-	-

Table 13

Summary of Analytical Results
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH138-18**	**BH139-18**	**BH140-18**	**BH141-18**	**BH142-18**	**GP01-18**	**GP32-18**
Sample ID:		**S-38443-010918-JC-035**	**S-38443-010418-JC-028**	**S-38443-010818-JC-029**	**S-38443-010918-JC-036**	**S-38443-010418-JC-027**	**S-38443-012518-JC-064**	**S-38443-011018-JC-037**
Sample Date:		**1/9/2018**	**1/4/2018**	**1/8/2018**	**1/9/2018**	**1/4/2018**	**1/25/2018**	**1/10/2018**
Sample Depth:		**8-10 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**	**6-8 ft BGS**	**8-10 ft BGS**	**5.5-6.5 ft bgs**	**10-11 ft BGS**
Parameters	**Units**							
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	6.0 J	16	120	100	610	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	8.9	120	22	180	1400	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	0.33 J	0.64 J	3.1 J	5.8 J	15 J	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	3.5 J	4.4 J	120	40	130	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	0.30 J	2.4 J	5.1 J	3.8 J	47 J	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	5.0 J	4.9 J	41	17 J	71 J	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	1.1 J	24	6.8	16	810	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	0.97 U	1.8 U	2.1 U	1.5 U	8.0 U	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	1.0 J	16	13	15	510	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	1.3 J	0.84 J	47	11	56	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	0.83 J	3.5 J	14 J	5.8 J	430	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	1.8 J	1.5 U	39	15	51 J	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	3.2 J	1.8 J	76	23	91	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	10	3.7	70 J	17	48	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	0.13 U	0.89 J	5.7	1.4 J	180	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	12 J	33 J	140 J	250 J	1400 J	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	16 J	220 J	47 J	390 J	3800 J	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	120 J	77 J	420 J	220 J	1400 J	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	11 J	160 J	100 J	180 J	8700 J	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	350 J	200 J	1000 J	320 J	1800 J	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	9.9 J	300 J	180 J	230 J	7600 J	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	680 J	370 J	2600 J	610 J	2800 J	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	10 J	250 J	350 J	120 J	7900 J	-	-
Asbestos								
Asbestos	%	ND	-	ND	ND	-	-	-
Chrysotile asbestos	%	-	10	-	-	1 <	-	-
Geotechnical								
Coarse sand	%	-	-	-	-	-	10.7	14.2
Fine sand	%	-	-	-	-	-	19.1	15.7
Fines	%	-	-	-	-	-	11.8	10.6
Gravel	%	-	-	-	-	-	33.8	40.1
Medium sand	%	-	-	-	-	-	24.6	19.4
Sand	%	-	-	-	-	-	54.4	49.3
Sieve, #4	% passed	-	-	-	-	-	66.2	59.9
Sieve, #10	% passed	-	-	-	-	-	55.5	45.7
Sieve, #20	% passed	-	-	-	-	-	43.2	36.0
Sieve, #40	% passed	-	-	-	-	-	30.9	26.3
Sieve, #60	% passed	-	-	-	-	-	22.9	19.9
Sieve, #80	% passed	-	-	-	-	-	19.2	16.8
Sieve, #100	% passed	-	-	-	-	-	17.2	15.4
Sieve, #200	% passed	-	-	-	-	-	11.8	10.6
Sieve, 0.375 inch	% passed	-	-	-	-	-	78.4	81.3
Sieve, 0.75 inch	% passed	-	-	-	-	-	100.0	100.0
Sieve, 1 inch	% passed	-	-	-	-	-	100.0	100.0

Table 13

Summary of Analytical Results
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH138-18**	**BH139-18**	**BH140-18**	**BH141-18**	**BH142-18**	**GP01-18**	**GP32-18**
Sample ID:		**S-38443-010918-JC-035**	**S-38443-010418-JC-028**	**S-38443-010818-JC-029**	**S-38443-010918-JC-036**	**S-38443-010418-JC-027**	**S-38443-012518-JC-064**	**S-38443-011018-JC-037**
Sample Date:		**1/9/2018**	**1/4/2018**	**1/8/2018**	**1/9/2018**	**1/4/2018**	**1/25/2018**	**1/10/2018**
Sample Depth:		**8-10 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**	**6-8 ft BGS**	**8-10 ft BGS**	**5.5-6.5 ft bgs**	**10-11 ft BGS**
Parameters	**Units**							
Sieve, 1.5 inch	% passed	-	-	-	-	-	100.0	100.0
Sieve, 2 inch	% passed	-	-	-	-	-	100.0	100.0
Sieve, 3 inch	% passed	-	-	-	-	-	100.0	100.0
General Chemistry								
Cellulose	%	-	-	-	-	-	-	-
Cyanide (total)	mg/kg	0.33 J	0.30 J	8.7	3.5	0.12 J	-	-
Fraction organic carbon (FOC)	%	-	-	-	-	-	11.2	2.7
Total solids	%	-	-	-	-	-	-	-

Notes
< - Less than reported value.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 13

Summary of Analytical Results
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TP-5**	**TP-5**	**TP-5**	**TP-6**	**TP-6**	**TT-7**
Sample ID:		**S-38443-100608-KMV-054**	**S-38443-100608-KMV-055**	**S-38443-100608-KMV-056**	**S-38443-100608-KMV-057**	**S-38443-100608-KMV-058**	**S-38443-100708-KMV-061**
Sample Date:		**10/6/2008**	**10/6/2008**	**10/6/2008**	**10/6/2008**	**10/6/2008**	**10/7/2008**
Sample Depth:		**8 ft BGS**	**12 ft BGS**	**17 ft BGS**	**11 ft BGS**	**20 ft BGS**	**6 ft BGS**
Parameters	**Units**						
Volatiles							
1,1,1-Trichloroethane	ug/kg	-	300 U	4.5 U	7.3 U	4.2 U	1800 U
1,1,2,2-Tetrachloroethane	ug/kg	-	300 U	4.5 U	7.3 U	4.2 U	1800 U
1,1,2-Trichloroethane	ug/kg	-	300 U	4.5 U	7.3 U	4.2 U	1800 U
1,1-Dichloroethane	ug/kg	-	300 U	4.5 U	7.3 U	4.2 U	1800 U
1,1-Dichloroethene	ug/kg	-	300 U	4.5 U	7.3 U	4.2 U	1800 U
1,2,4-Trichlorobenzene	ug/kg	-	24 J	4.5 U	7.3 U	4.2 U	1800 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	-	600 U	8.9 U	15 U	8.5 U	3600 U
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	-	300 U	4.5 U	7.3 U	4.2 U	1800 U
1,2-Dichlorobenzene	ug/kg	-	42 J	4.5 U	7.3 U	4.2 U	1800 U
1,2-Dichloroethane	ug/kg	-	300 U	4.5 U	7.3 U	4.2 U	1800 U
1,2-Dichloropropane	ug/kg	-	300 U	4.5 U	7.3 U	4.2 U	1800 U
1,3-Dichlorobenzene	ug/kg	-	44 J	4.5 U	7.3 U	4.2 U	1800 U
1,4-Dichlorobenzene	ug/kg	-	24 J	4.5 U	7.3 U	4.2 U	89 J
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	-	1200 U	2.2 J	29 U	17 U	7100 U
2-Hexanone	ug/kg	-	1200 U	18 U	29 U	17 U	7100 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	-	1200 U	18 U	29 U	17 U	7100 U
Acetone	ug/kg	-	1200 U	6.4 J	9.9 J	17 U	7100 U
Benzene	ug/kg	-	260 J	0.67 J	7.3 U	0.36 J	1800 U
Bromodichloromethane	ug/kg	-	300 U	4.5 U	7.3 U	4.2 U	1800 U
Bromoform	ug/kg	-	300 U	4.5 U	7.3 U	4.2 U	1800 U
Bromomethane (Methyl bromide)	ug/kg	-	300 U	4.5 U	7.3 U	4.2 U	1800 UJ
Carbon disulfide	ug/kg	-	300 U	4.5 U	6.4 J	1.2 J	1800 U
Carbon tetrachloride	ug/kg	-	300 U	4.5 U	7.3 U	4.2 U	1800 U
Chlorobenzene	ug/kg	-	9800	28	7.3 U	4.2 U	47000
Chloroethane	ug/kg	-	300 U	4.5 U	7.3 U	4.2 U	1800 U
Chloroform (Trichloromethane)	ug/kg	-	300 U	4.5 U	7.3 U	4.2 U	1800 U
Chloromethane (Methyl chloride)	ug/kg	-	300 U	4.5 U	7.3 U	4.2 U	1800 U
cis-1,2-Dichloroethene	ug/kg	-	300 U	4.5 U	7.3 U	1.7 J	1800 U
cis-1,3-Dichloropropene	ug/kg	-	300 U	4.5 U	7.3 U	4.2 U	1800 U
Cyclohexane	ug/kg	-	230 J	1.7 J	15 U	8.5 U	3600 U
Dibromochloromethane	ug/kg	-	300 U	4.5 U	7.3 U	4.2 U	1800 U
Dichlorodifluoromethane (CFC-12)	ug/kg	-	300 U	4.5 U	7.3 U	4.2 U	1800 U
Ethylbenzene	ug/kg	-	2400	22	7.3 U	4.2 U	220 J
Isopropyl benzene	ug/kg	-	680	3.9 J	7.3 U	4.2 U	1800 U
Methyl acetate	ug/kg	-	290 J	8.9 U	15 U	8.5 U	3600 U
Methyl cyclohexane	ug/kg	-	2400	14	15 U	0.72 J	3600 U
Methyl tert butyl ether (MTBE)	ug/kg	-	1200 U	18 U	29 U	17 U	7100 U
Methylene chloride	ug/kg	-	300 U	4.5 U	7.3 U	4.2 U	1800 U
Styrene	ug/kg	-	300 U	4.5 U	7.3 U	4.2 UJ	1800 UJ
Tetrachloroethene	ug/kg	-	300 U	4.5 U	7.3 U	4.2 U	1800 U
Toluene	ug/kg	-	1100	8.2	7.3 U	0.28 J	1800 U
trans-1,2-Dichloroethene	ug/kg	-	300 U	4.5 U	7.3 U	0.53 J	1800 U
trans-1,3-Dichloropropene	ug/kg	-	300 U	4.5 U	7.3 U	4.2 U	1800 U
Trichloroethene	ug/kg	-	16 J	4.5 U	7.3 U	0.68 J	1800 U
Trichlorofluoromethane (CFC-11)	ug/kg	-	300 U	4.5 U	7.3 U	4.2 U	1800 U

Table 13

Summary of Analytical Results
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TP-5**	**TP-5**	**TP-5**	**TP-6**	**TP-6**	**TT-7**
Sample ID:		**S-38443-100608-KMV-054**	**S-38443-100608-KMV-055**	**S-38443-100608-KMV-056**	**S-38443-100608-KMV-057**	**S-38443-100608-KMV-058**	**S-38443-100708-KMV-061**
Sample Date:		**10/6/2008**	**10/6/2008**	**10/6/2008**	**10/6/2008**	**10/6/2008**	**10/7/2008**
Sample Depth:		**8 ft BGS**	**12 ft BGS**	**17 ft BGS**	**11 ft BGS**	**20 ft BGS**	**6 ft BGS**
Parameters	**Units**						
Trifluorotrichloroethane (CFC-113)	ug/kg	-	300 U	4.5 U	7.3 U	4.2 U	1800 U
Vinyl chloride	ug/kg	-	300 U	4.5 U	7.3 U	0.58 J	1800 U
Xylenes (total)	ug/kg	-	12000	130	15 U	1.1 J	710 J
Semi-Volatiles							
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	-	2600 U	100 U	120 U	100 U	2600 U
2,4,5-Trichlorophenol	ug/kg	-	3800 U	160 U	180 U	160 U	3900 U
2,4,6-Trichlorophenol	ug/kg	-	3800 U	160 U	180 U	160 U	3900 U
2,4-Dichlorophenol	ug/kg	-	3800 U	160 U	180 U	160 U	3900 U
2,4-Dimethylphenol	ug/kg	-	3800 U	160 U	180 U	160 U	3900 U
2,4-Dinitrophenol	ug/kg	-	8400 U	340 U	410 U	340 U	8500 U
2,4-Dinitrotoluene	ug/kg	-	5100 U	210 U	250 U	210 U	5100 U
2,6-Dinitrotoluene	ug/kg	-	5100 U	210 U	250 U	210 U	5100 U
2-Chloronaphthalene	ug/kg	-	1300 U	52 U	62 U	52 U	1300 U
2-Chlorophenol	ug/kg	-	1300 U	52 U	62 U	52 U	1300 U
2-Methylnaphthalene	ug/kg	-	1700	27	8.2 U	6.9 U	300
2-Methylphenol	ug/kg	-	5100 UJ	210 UJ	250 UJ	210 UJ	5100 UJ
2-Nitroaniline	ug/kg	-	5100 U	210 U	250 U	210 U	5100 U
2-Nitrophenol	ug/kg	-	1300 U	52 U	62 U	52 U	1300 U
3&4-Methylphenol	ug/kg	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/kg	-	2600 U	100 U	120 U	100 U	2600 U
3-Nitroaniline	ug/kg	-	5100 U	210 U	250 U	210 U	5100 U
4,6-Dinitro-2-methylphenol	ug/kg	-	3800 U	160 U	180 U	160 U	3900 U
4-Bromophenyl phenyl ether	ug/kg	-	1300 U	52 U	62 U	52 U	1300 U
4-Chloro-3-methylphenol	ug/kg	-	3800 U	160 U	180 U	160 U	3900 U
4-Chloroaniline	ug/kg	-	3800 U	160 U	180 U	160 U	3900 U
4-Chlorophenyl phenyl ether	ug/kg	-	1300 U	52 U	62 U	52 U	1300 U
4-Methylphenol	ug/kg	-	5100 U	210 U	250 U	210 U	5100 U
4-Nitroaniline	ug/kg	-	5100 U	210 U	250 U	210 U	5100 U
4-Nitrophenol	ug/kg	-	8400 U	340 U	410 U	340 U	8500 U
Acenaphthene	ug/kg	-	170 U	6.9 U	8.2 U	6.9 U	2600
Acenaphthylene	ug/kg	-	170 U	6.9 U	8.2 U	6.9 U	170 U
Acetophenone	ug/kg	-	2600 U	100 U	120 U	100 U	2600 U
Anthracene	ug/kg	-	170 U	6.9 U	8.2 U	6.9 U	2900
Atrazine	ug/kg	-	5100 U	210 U	250 U	210 U	5100 U
Benzaldehyde	ug/kg	-	2600 U	100 U	120 U	100 U	2600 U
Benzo(a)anthracene	ug/kg	-	170 U	22	8.2 U	6.9 U	6400
Benzo(a)pyrene	ug/kg	-	170 U	14	8.2 U	6.9 U	4500
Benzo(b)fluoranthene	ug/kg	-	170 U	23	8.2 U	6.9 U	6200
Benzo(g,h,i)perylene	ug/kg	-	170 U	8.7	8.2 U	6.9 U	2300
Benzo(k)fluoranthene	ug/kg	-	170 U	10	8.2 U	6.9 U	2400
Biphenyl (1,1-Biphenyl)	ug/kg	-	1300 U	52 U	62 U	52 U	1300 U
bis(2-Chloroethoxy)methane	ug/kg	-	2600 U	100 U	120 U	100 U	2600 U
bis(2-Chloroethyl)ether	ug/kg	-	2600 U	100 U	120 U	100 U	2600 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	-	4100 U	84 U	62 U	52 U	1300 U
Butyl benzylphthalate (BBP)	ug/kg	-	1300 U	52 U	62 U	52 U	1300 U

Table 13

Summary of Analytical Results
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TP-5**	**TP-5**	**TP-5**	**TP-6**	**TP-6**	**TT-7**
Sample ID:		**S-38443-100608-KMV-054**	**S-38443-100608-KMV-055**	**S-38443-100608-KMV-056**	**S-38443-100608-KMV-057**	**S-38443-100608-KMV-058**	**S-38443-100708-KMV-061**
Sample Date:		**10/6/2008**	**10/6/2008**	**10/6/2008**	**10/6/2008**	**10/6/2008**	**10/7/2008**
Sample Depth:		**8 ft BGS**	**12 ft BGS**	**17 ft BGS**	**11 ft BGS**	**20 ft BGS**	**6 ft BGS**
Parameters	**Units**						
Caprolactam	ug/kg	-	8400 U	340 U	410 U	340 U	8500 U
Carbazole	ug/kg	-	1300 U	52 U	62 U	52 U	1300 U
Chrysene	ug/kg	-	530	22	8.2 U	6.9 U	5700
Dibenz(a,h)anthracene	ug/kg	-	170 U	6.9 U	8.2 U	6.9 U	170 U
Dibenzofuran	ug/kg	-	1300 U	52 U	62 U	52 U	860 J
Diethyl phthalate	ug/kg	-	1300 U	52 U	62 U	52 U	1300 U
Dimethyl phthalate	ug/kg	-	1300 U	52 U	62 U	52 U	1300 U
Di-n-butylphthalate (DBP)	ug/kg	-	910 J	52 U	62 U	52 U	1300 U
Di-n-octyl phthalate (DnOP)	ug/kg	-	1300 U	52 U	62 U	52 U	1300 U
Fluoranthene	ug/kg	-	970	51	8.2 U	6.9 U	21000
Fluorene	ug/kg	-	400	6.9 U	8.2 U	6.9 U	2000
Hexachlorobenzene	ug/kg	-	170 U	6.9 U	8.2 U	6.9 U	170 U
Hexachlorobutadiene	ug/kg	-	1300 U	52 U	62 U	52 U	1300 U
Hexachlorocyclopentadiene	ug/kg	-	8400 U	340 U	410 U	340 U	8500 U
Hexachloroethane	ug/kg	-	1300 U	52 U	62 U	52 U	1300 U
Indeno(1,2,3-cd)pyrene	ug/kg	-	170 U	7.3	8.2 U	6.9 U	2300
Isophorone	ug/kg	-	1300 U	52 U	62 U	52 U	1300 U
Naphthalene	ug/kg	-	5500	38	8.2 U	6.9 U	270
Nitrobenzene	ug/kg	-	2600 U	100 U	120 U	100 U	2600 U
N-Nitrosodi-n-propylamine	ug/kg	-	1300 U	52 U	62 U	52 U	1300 U
N-Nitrosodiphenylamine	ug/kg	-	1300 U	52 U	62 U	53	1300 U
Pentachlorophenol	ug/kg	-	3800 U	160 U	180 U	160 U	3900 U
Phenanthrene	ug/kg	-	1100	25	8.2 U	6.9 U	6800
Phenol	ug/kg	-	1300 U	52 U	62 U	52 U	970 J
Pyrene	ug/kg	-	680	34	8.2 U	6.9 U	13000
Metals							
Aluminum	mg/kg	-	10700	2260	7400	2140	6160
Antimony	mg/kg	-	12.2 J	6.2 UJ	1.7 J	6.2 UJ	22.6 J
Arsenic	mg/kg	-	14.2	2.9	11.7	4.0	19.4
Barium	mg/kg	-	7810	50.8	1380	26.9	971
Beryllium	mg/kg	-	0.62 J	0.52 U	0.26 J	0.52 U	0.52 J
Cadmium	mg/kg	-	7.8 J	0.28 J	4.2 J	0.35 J	10.1 J
Calcium	mg/kg	-	42900	117000	146000	131000	59700
Chromium	mg/kg	-	185 J	8.4 J	36.8 J	5.2 J	63.1 J
Chromium III (trivalent)	mg/kg	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-
Cobalt	mg/kg	-	9.3	3.5 J	2.9 J	2.5 J	11.9
Copper	mg/kg	-	2590 J	15.2 J	900 J	13.4 J	7340 J
Iron	mg/kg	-	63000	8000	25300	7220	72100
Lead	mg/kg	-	5020	59.1	546	25.1	2380
Magnesium	mg/kg	-	37100	42100	40300	44600	20500
Manganese	mg/kg	-	561 J	226 J	333 J	211 J	557 J
Mercury	mg/kg	-	0.24	0.10 U	1.3	0.030 J	2.6
Nickel	mg/kg	-	241 J	10.1 J	20.2 J	6.5 J	87.9 J
Potassium	mg/kg	-	1200	378 J	1270	459 J	1090

Table 13

Summary of Analytical Results
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TP-5**	**TP-5**	**TP-5**	**TP-6**	**TP-6**	**TT-7**
Sample ID:		**S-38443-100608-KMV-054**	**S-38443-100608-KMV-055**	**S-38443-100608-KMV-056**	**S-38443-100608-KMV-057**	**S-38443-100608-KMV-058**	**S-38443-100708-KMV-061**
Sample Date:		**10/6/2008**	**10/6/2008**	**10/6/2008**	**10/6/2008**	**10/6/2008**	**10/7/2008**
Sample Depth:		**8 ft BGS**	**12 ft BGS**	**17 ft BGS**	**11 ft BGS**	**20 ft BGS**	**6 ft BGS**
Parameters	**Units**						
Selenium	mg/kg	-	31.9 U	26.0 U	30.8 U	25.9 U	161 U
Silver	mg/kg	-	1.2 J	1.0 U	1.7	1.0 U	2.5
Sodium	mg/kg	-	1510	256 J	1120	175 J	833
Thallium	mg/kg	-	0.64 U	0.10 U	0.12 U	0.10 U	0.20
Vanadium	mg/kg	-	34.0	11.9	20.9	8.2	22.1 J
Zinc	mg/kg	-	2390	32.9	816	230	1790
PCBs							
Aroclor-1016 (PCB-1016)	ug/kg	-	2100 U	34 U	41 U	34 U	210 U
Aroclor-1221 (PCB-1221)	ug/kg	-	2100 U	34 U	41 U	34 U	210 U
Aroclor-1232 (PCB-1232)	ug/kg	-	2100 U	34 U	41 U	34 U	210 U
Aroclor-1242 (PCB-1242)	ug/kg	-	10000	55	41 U	34 U	1700
Aroclor-1248 (PCB-1248)	ug/kg	-	2100 U	34 U	41 U	34 U	210 U
Aroclor-1254 (PCB-1254)	ug/kg	-	2800	23 J	41 UJ	34 UJ	1600
Aroclor-1260 (PCB-1260)	ug/kg	-	2100 U	34 U	41 UJ	34 UJ	210 U
Pesticides							
4,4'-DDD	ug/kg	-	220 U	18 U	2.1 U	8.8 U	220 U
4,4'-DDE	ug/kg	-	220 U	18 U	2.1 U	8.8 U	93 J
4,4'-DDT	ug/kg	-	110 J	18 UJ	2.1 UJ	8.8 UJ	220 UJ
Aldrin	ug/kg	-	220 U	18 U	2.1 U	8.8 U	220 U
alpha-BHC	ug/kg	-	220 U	18 U	2.1 U	8.8 U	220 U
alpha-Chlordane	ug/kg	-	220 U	18 U	2.1 U	8.8 U	220 U
beta-BHC	ug/kg	-	220 U	18 U	2.1 U	8.8 U	220 U
delta-BHC	ug/kg	-	220 U	18 U	2.1 U	8.8 U	220 U
Dieldrin	ug/kg	-	68 J	18 U	2.1 U	8.8 U	220 U
Endosulfan I	ug/kg	-	220 U	18 U	2.1 U	8.8 U	220 U
Endosulfan II	ug/kg	-	220 U	18 U	2.1 U	8.8 U	220 U
Endosulfan sulfate	ug/kg	-	220 U	18 U	2.1 U	8.8 U	220 U
Endrin	ug/kg	-	220 U	18 U	2.1 U	8.8 U	220 U
Endrin aldehyde	ug/kg	-	220 U	18 U	2.1 U	8.8 U	220 U
Endrin ketone	ug/kg	-	220 U	18 U	2.1 U	8.8 U	220 U
gamma-BHC (lindane)	ug/kg	-	220 U	18 U	2.1 U	8.8 U	220 U
gamma-Chlordane	ug/kg	-	220 U	18 U	2.1 U	8.8 U	220 U
Heptachlor	ug/kg	-	220 U	18 U	2.1 U	8.8 U	220 U
Heptachlor epoxide	ug/kg	-	220 U	18 U	2.1 U	8.8 U	220 U
Methoxychlor	ug/kg	-	420 U	34 U	4.1 U	17 U	420 U
Toxaphene	ug/kg	-	8600 U	700 U	82 U	350 U	8600 U
Herbicides							
2,4,5-TP (Silvex)	ug/kg	-	26 U	21 U	25 U	21 U	2600 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	-	100 U	83 U	98 U	83 U	10000 U
Dioxin/Furans							
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-

Table 13

Summary of Analytical Results
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TP-5**	**TP-5**	**TP-5**	**TP-6**	**TP-6**	**TT-7**
Sample ID:		**S-38443-100608-KMV-054**	**S-38443-100608-KMV-055**	**S-38443-100608-KMV-056**	**S-38443-100608-KMV-057**	**S-38443-100608-KMV-058**	**S-38443-100708-KMV-061**
Sample Date:		**10/6/2008**	**10/6/2008**	**10/6/2008**	**10/6/2008**	**10/6/2008**	**10/7/2008**
Sample Depth:		**8 ft BGS**	**12 ft BGS**	**17 ft BGS**	**11 ft BGS**	**20 ft BGS**	**6 ft BGS**
Parameters	**Units**						
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-
Asbestos							
Asbestos	%	ND	-	-	-	-	-
Chrysotile asbestos	%	-	-	-	-	-	-
Geotechnical							
Coarse sand	%	-	-	-	-	-	-
Fine sand	%	-	-	-	-	-	-
Fines	%	-	-	-	-	-	-
Gravel	%	-	-	-	-	-	-
Medium sand	%	-	-	-	-	-	-
Sand	%	-	-	-	-	-	-
Sieve, #4	% passed	-	-	-	-	-	-
Sieve, #10	% passed	-	-	-	-	-	-
Sieve, #20	% passed	-	-	-	-	-	-
Sieve, #40	% passed	-	-	-	-	-	-
Sieve, #60	% passed	-	-	-	-	-	-
Sieve, #80	% passed	-	-	-	-	-	-
Sieve, #100	% passed	-	-	-	-	-	-
Sieve, #200	% passed	-	-	-	-	-	-
Sieve, 0.375 inch	% passed	-	-	-	-	-	-
Sieve, 0.75 inch	% passed	-	-	-	-	-	-
Sieve, 1 inch	% passed	-	-	-	-	-	-

Table 13

Summary of Analytical Results
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TP-5**	**TP-5**	**TP-5**	**TP-6**	**TP-6**	**TT-7**
Sample ID:		**S-38443-100608-KMV-054**	**S-38443-100608-KMV-055**	**S-38443-100608-KMV-056**	**S-38443-100608-KMV-057**	**S-38443-100608-KMV-058**	**S-38443-100708-KMV-061**
Sample Date:		**10/6/2008**	**10/6/2008**	**10/6/2008**	**10/6/2008**	**10/6/2008**	**10/7/2008**
Sample Depth:		**8 ft BGS**	**12 ft BGS**	**17 ft BGS**	**11 ft BGS**	**20 ft BGS**	**6 ft BGS**
Parameters	**Units**						
Sieve, 1.5 inch	% passed	-	-	-	-	-	-
Sieve, 2 inch	% passed	-	-	-	-	-	-
Sieve, 3 inch	% passed	-	-	-	-	-	-
General Chemistry							
Cellulose	%	-	-	-	-	-	-
Cyanide (total)	mg/kg	-	6.0	0.74	0.62 U	0.52 U	0.64 U
Fraction organic carbon (FOC)	%	-	-	-	-	-	-
Total solids	%	-	78.3	96.3	81.2	96.7	77.7

Notes
< - Less than reported value.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 13

Summary of Analytical Results
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-7**	**TT-21**	**TT-21**	**TT-22**	**TT-22**	**TT-24**
Sample ID:		**S-38443-100708-KMV-063**	**S-38443-100808-KMV-068**	**S-38443-100808-KMV-069**	**S-38443-100808-KMV-066**	**S-38443-100808-KMV-067**	**SO-38443-032018-BW-002**
Sample Date:		**10/7/2008**	**10/8/2008**	**10/8/2008**	**10/8/2008**	**10/8/2008**	**3/20/2018**
Sample Depth:		**16 ft BGS**	**8 ft BGS**	**21 ft BGS**	**6 ft BGS**	**21 ft BGS**	**2-4 ft bgs**
Parameters	**Units**						
Volatiles							
1,1,1-Trichloroethane	ug/kg	280 U	320 U	980 U	1800 U	360 U	0.25 U
1,1,2,2-Tetrachloroethane	ug/kg	280 U	320 U	980 U	1800 U	360 U	0.28 U
1,1,2-Trichloroethane	ug/kg	280 U	320 U	980 U	1800 U	360 U	0.42 U
1,1-Dichloroethane	ug/kg	280 U	320 U	980 U	1800 U	66 J	0.36 U
1,1-Dichloroethene	ug/kg	280 U	320 U	980 U	1800 U	360 U	0.59 U
1,2,4-Trichlorobenzene	ug/kg	280 U	320 U	980 U	1800 U	360 U	0.26 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	560 U	650 U	2000 U	3600 U	720 U	0.74 U
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	280 U	320 U	980 U	1800 U	360 U	0.38 U
1,2-Dichlorobenzene	ug/kg	280 U	47 J	980 U	1800 U	360 U	0.24 U
1,2-Dichloroethane	ug/kg	280 U	320 U	980 U	1800 U	360 U	0.32 U
1,2-Dichloropropane	ug/kg	280 U	320 U	980 U	1800 U	360 U	0.34 U
1,3-Dichlorobenzene	ug/kg	280 U	320 U	980 U	1800 U	360 U	0.32 U
1,4-Dichlorobenzene	ug/kg	19 J	17 J	55 J	1800 U	360 U	0.38 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	1100 U	1300 U	3900 U	7100 U	1400 U	4.3 J
2-Hexanone	ug/kg	1100 U	1300 U	3900 U	7100 U	1400 U	0.63 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	1100 U	1300 U	3900 U	7100 U	530 J	0.97 U
Acetone	ug/kg	1100 U	1300 UJ	3900 UJ	7100 UJ	1400 UJ	18 U
Benzene	ug/kg	94 J	210 J	360 J	530 J	290 J	0.35 U
Bromodichloromethane	ug/kg	280 U	320 U	980 U	1800 U	360 U	0.36 U
Bromoform	ug/kg	280 U	320 U	980 U	1800 U	360 U	0.43 U
Bromomethane (Methyl bromide)	ug/kg	280 UJ	320 U	980 U	1800 U	360 U	0.64 U
Carbon disulfide	ug/kg	280 U	320 U	980 U	1800 U	360 U	0.91 J
Carbon tetrachloride	ug/kg	280 U	320 U	980 U	1800 U	360 U	0.27 U
Chlorobenzene	ug/kg	1900	14 J	42 J	1800 U	360 U	0.36 U
Chloroethane	ug/kg	280 U	320 U	980 U	1800 U	360 U	0.41 U
Chloroform (Trichloromethane)	ug/kg	280 U	320 U	980 U	1800 U	360 U	0.25 U
Chloromethane (Methyl chloride)	ug/kg	280 U	320 U	980 U	1800 U	360 U	0.41 U
cis-1,2-Dichloroethene	ug/kg	20 J	690	1400	150 J	360 U	0.39 J
cis-1,3-Dichloropropene	ug/kg	280 U	320 U	980 U	1800 U	360 U	0.28 U
Cyclohexane	ug/kg	560 U	650 U	2000 U	3600 U	750	0.23 U
Dibromochloromethane	ug/kg	280 U	320 U	980 U	1800 U	360 U	0.33 U
Dichlorodifluoromethane (CFC-12)	ug/kg	280 U	320 U	980 U	1800 U	360 U	0.38 U
Ethylbenzene	ug/kg	28 J	2500	18000	54000	1500	6.8
Isopropyl benzene	ug/kg	81 J	290 J	3300	2200	180 J	0.41 J
Methyl acetate	ug/kg	140 J	78 J	2000 U	3600 U	160 J	1.3 U
Methyl cyclohexane	ug/kg	59 J	210 J	1400 J	4200	1700	0.44 J
Methyl tert butyl ether (MTBE)	ug/kg	1100 U	1300 U	3900 U	7100 U	1400 U	0.29 U
Methylene chloride	ug/kg	190 J	320 U	980 U	1800 U	360 U	30
Styrene	ug/kg	280 UJ	320 UJ	980 UJ	1800 UJ	360 UJ	0.29 U
Tetrachloroethene	ug/kg	280 U	320 U	980 U	1800 U	360 U	0.56 J
Toluene	ug/kg	33 J	140 J	770 J	2900	540	1.1 J
trans-1,2-Dichloroethene	ug/kg	280 U	56 J	130 J	1800 U	360 U	0.41 U
trans-1,3-Dichloropropene	ug/kg	280 U	320 U	980 U	1800 U	360 U	0.23 U
Trichloroethene	ug/kg	240 J	400	790 J	1800 U	360 U	0.51 J
Trichlorofluoromethane (CFC-11)	ug/kg	280 U	320 U	980 U	1800 U	360 U	0.26 U

Table 13

Summary of Analytical Results
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-7**	**TT-21**	**TT-21**	**TT-22**	**TT-22**	**TT-24**
Sample ID:		**S-38443-100708-KMV-063**	**S-38443-100808-KMV-068**	**S-38443-100808-KMV-069**	**S-38443-100808-KMV-066**	**S-38443-100808-KMV-067**	**SO-38443-032018-BW-002**
Sample Date:		**10/7/2008**	**10/8/2008**	**10/8/2008**	**10/8/2008**	**10/8/2008**	**3/20/2018**
Sample Depth:		**16 ft BGS**	**8 ft BGS**	**21 ft BGS**	**6 ft BGS**	**21 ft BGS**	**2-4 ft bgs**
Parameters	**Units**						
Trifluorotrichloroethane (CFC-113)	ug/kg	280 U	320 U	980 U	1800 U	360 U	0.53 U
Vinyl chloride	ug/kg	280 U	130 J	490 J	1800 U	61 J	0.30 U
Xylenes (total)	ug/kg	140 J	3600	61000	6300	1700	23
Semi-Volatiles							
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	840 U	1200 U	2400 U	3000 U	1400 U	39 U
2,4,5-Trichlorophenol	ug/kg	1300 U	1900 U	3600 U	4500 U	2100 U	100 U
2,4,6-Trichlorophenol	ug/kg	1300 U	1900 U	3600 U	4500 U	2100 U	37 U
2,4-Dichlorophenol	ug/kg	1300 U	1900 U	3600 U	4500 U	2100 U	83 U
2,4-Dimethylphenol	ug/kg	1300 U	1900 U	3600 U	4500 U	2100 U	83 U
2,4-Dinitrophenol	ug/kg	2800 U	4100 U	8000 U	9900 U	4600 U	87 U
2,4-Dinitrotoluene	ug/kg	1700 U	2500 U	4900 U	6000 U	2800 U	70 U
2,6-Dinitrotoluene	ug/kg	1700 U	2500 U	4900 U	6000 U	2800 U	87 U
2-Chloronaphthalene	ug/kg	420 U	620 U	1200 U	1500 U	700 U	1.9 U
2-Chlorophenol	ug/kg	420 U	620 U	1200 U	1500 U	700 U	34 U
2-Methylnaphthalene	ug/kg	56 U	82 U	160 U	420	290	17 J
2-Methylphenol	ug/kg	1700 U	2500 U	4900 U	6000 U	2800 U	45 U
2-Nitroaniline	ug/kg	1700 U	2500 U	4900 U	6000 U	2800 U	38 U
2-Nitrophenol	ug/kg	420 U	620 U	1200 U	1500 U	700 U	34 U
3&4-Methylphenol	ug/kg	-	-	-	-	-	83 U
3,3'-Dichlorobenzidine	ug/kg	840 U	1200 U	2400 U	3000 U	1400 U	74 U
3-Nitroaniline	ug/kg	1700 U	2500 U	4900 U	6000 U	2800 U	66 U
4,6-Dinitro-2-methylphenol	ug/kg	1300 U	1900 U	3600 U	4500 U	2100 U	38 U
4-Bromophenyl phenyl ether	ug/kg	420 U	620 U	1200 U	1500 U	700 U	54 U
4-Chloro-3-methylphenol	ug/kg	1300 U	1900 U	3600 U	4500 U	2100 U	87 U
4-Chloroaniline	ug/kg	1300 U	1900 U	3600 U	4500 U	2100 U	70 U
4-Chlorophenyl phenyl ether	ug/kg	420 U	620 U	1200 U	1500 U	700 U	54 U
4-Methylphenol	ug/kg	1700 U	2500 U	4900 U	6000 U	2800 U	-
4-Nitroaniline	ug/kg	1700 U	2500 U	4900 U	6000 U	2800 U	110 U
4-Nitrophenol	ug/kg	2800 U	4100 U	8000 U	9900 U	4600 U	70 U
Acenaphthene	ug/kg	1700	82 U	160 U	200 U	93 U	33
Acenaphthylene	ug/kg	56 U	82 U	160 U	200 U	93 U	1.4 U
Acetophenone	ug/kg	840 U	1200 U	2400 U	3000 U	1400 U	38 U
Anthracene	ug/kg	2000	82 U	160 U	200 U	93 U	66
Atrazine	ug/kg	1700 U	2500 U	4900 U	6000 U	2800 U	38 U
Benzaldehyde	ug/kg	840 U	1200 U	2400 U	3000 U	1400 U	50 U
Benzo(a)anthracene	ug/kg	3500	82 U	160 U	200 U	240	220
Benzo(a)pyrene	ug/kg	2500	82 U	160 U	540	270	270
Benzo(b)fluoranthene	ug/kg	3300	160	160 U	690	310	470
Benzo(g,h,i)perylene	ug/kg	1400	82 U	160 U	510	220	210
Benzo(k)fluoranthene	ug/kg	1400	82 U	160 U	310	150	160
Biphenyl (1,1-Biphenyl)	ug/kg	420 U	620 U	1200 U	1500 U	700 U	15 J
bis(2-Chloroethoxy)methane	ug/kg	840 U	1200 U	2400 U	3000 U	1400 U	91 U
bis(2-Chloroethyl)ether	ug/kg	840 U	1200 U	2400 U	3000 U	1400 U	8.3 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	420 U	620 U	1200 U	1500 U	700 U	1920 U
Butyl benzylphthalate (BBP)	ug/kg	420 U	620 U	1200 U	1500 U	700 U	41 U

Table 13

Summary of Analytical Results
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-7**	**TT-21**	**TT-21**	**TT-22**	**TT-22**	**TT-24**
Sample ID:		**S-38443-100708-KMV-063**	**S-38443-100808-KMV-068**	**S-38443-100808-KMV-069**	**S-38443-100808-KMV-066**	**S-38443-100808-KMV-067**	**SO-38443-032018-BW-002**
Sample Date:		**10/7/2008**	**10/8/2008**	**10/8/2008**	**10/8/2008**	**10/8/2008**	**3/20/2018**
Sample Depth:		**16 ft BGS**	**8 ft BGS**	**21 ft BGS**	**6 ft BGS**	**21 ft BGS**	**2-4 ft bgs**
Parameters	**Units**						
Caprolactam	ug/kg	2800 U	4100 U	8000 U	9900 U	4600 U	150 U
Carbazole	ug/kg	250 J	620 U	1200 U	1500 U	700 U	110 U
Chrysene	ug/kg	2800	82 U	160 U	510	250	260
Dibenz(a,h)anthracene	ug/kg	540	82 U	160 U	200 U	93 U	53
Dibenzofuran	ug/kg	760	620 U	1200 U	1500 U	700 U	2.7 U
Diethyl phthalate	ug/kg	420 U	620 U	1200 U	1500 U	700 U	66 U
Dimethyl phthalate	ug/kg	420 U	620 U	1200 U	1500 U	700 U	70 U
Di-n-butylphthalate (DBP)	ug/kg	420 U	620 U	1200 U	1500 U	700 U	62 U
Di-n-octyl phthalate (DnOP)	ug/kg	420 U	620 U	1200 U	1500 U	700 U	33 U
Fluoranthene	ug/kg	12000	230	160 U	880	570	560
Fluorene	ug/kg	1600	82 U	160 U	200 U	93 U	41
Hexachlorobenzene	ug/kg	56 U	82 U	160 U	200 U	93 U	8.7 U
Hexachlorobutadiene	ug/kg	420 U	620 U	1200 U	1500 U	700 U	23 U
Hexachlorocyclopentadiene	ug/kg	2800 U	4100 U	8000 U	9900 U	4600 U	33 U
Hexachloroethane	ug/kg	420 U	620 U	1200 U	1500 U	700 U	37 U
Indeno(1,2,3-cd)pyrene	ug/kg	1300	82 U	160 U	390	190	190
Isophorone	ug/kg	420 U	620 U	1200 U	1500 U	700 U	54 U
Naphthalene	ug/kg	56 U	82 U	250	860	430	14 J
Nitrobenzene	ug/kg	840 U	1200 U	2400 U	3000 U	1400 U	9.1 U
N-Nitrosodi-n-propylamine	ug/kg	420 U	620 U	1200 U	1500 U	700 U	26 U
N-Nitrosodiphenylamine	ug/kg	420 U	620 U	1200 U	1500 U	700 U	87 U
Pentachlorophenol	ug/kg	1300 U	1900 U	3600 U	4500 U	2100 U	38 U
Phenanthrene	ug/kg	5700	150	200	350	250	130
Phenol	ug/kg	420 U	620 U	1200 U	1500 U	700 U	30 U
Pyrene	ug/kg	8300	210	240	700	420	590
Metals							
Aluminum	mg/kg	8370	6080	6420	20700	6400	2600
Antimony	mg/kg	5.6 J	4.7 J	22.0 J	191 J	4.1 J	0.50 J
Arsenic	mg/kg	38.8	13.6	12.8	13.4	33.1	7.8
Barium	mg/kg	675	622	501	1400	377	54
Beryllium	mg/kg	0.38 J	1.0 J	0.59 J	0.50 J	2.5 J	0.23
Cadmium	mg/kg	5.3 J	2.1 J	64.0 J	11.2 J	21.7 J	0.53
Calcium	mg/kg	50900	36900	34200	50200	14700	140000 J
Chromium	mg/kg	49.2 J	62.7 J	38.0 J	101 J	32.5 J	9.0
Chromium III (trivalent)	mg/kg	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-
Cobalt	mg/kg	14.0	6.1 J	11.6 J	11.9 J	14.1 J	3.2
Copper	mg/kg	659 J	209	1940	2290	518	29
Iron	mg/kg	83300	16800	25200	42100	9140	7800
Lead	mg/kg	749	604	2210	6180	252	48
Magnesium	mg/kg	15700	14100 J	10300 J	18400 J	4680 J	45000
Manganese	mg/kg	598 J	291	408	554	80.6	240
Mercury	mg/kg	0.25	0.22	0.20	0.32	0.37	0.035 J
Nickel	mg/kg	71.6 J	19.3 J	459 J	145 J	25.2 J	10
Potassium	mg/kg	1350	936	2360	660 J	830	470 J

Table 13

Summary of Analytical Results
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-7**	**TT-21**	**TT-21**	**TT-22**	**TT-22**	**TT-24**
Sample ID:		**S-38443-100708-KMV-063**	**S-38443-100808-KMV-068**	**S-38443-100808-KMV-069**	**S-38443-100808-KMV-066**	**S-38443-100808-KMV-067**	**SO-38443-032018-BW-002**
Sample Date:		**10/7/2008**	**10/8/2008**	**10/8/2008**	**10/8/2008**	**10/8/2008**	**3/20/2018**
Sample Depth:		**16 ft BGS**	**8 ft BGS**	**21 ft BGS**	**6 ft BGS**	**21 ft BGS**	**2-4 ft bgs**
Parameters	**Units**						
Selenium	mg/kg	158 U	3.3 J	0.91 J	37.5 U	7.6 J	0.54 J
Silver	mg/kg	4.5	0.81 J	1.9 J	5.0 J	1.4 U	0.14 J
Sodium	mg/kg	882	303 J	1060	683 J	193 J	160 J
Thallium	mg/kg	0.17	0.23 U	0.61 U	3.0 U	0.53	0.18 J
Vanadium	mg/kg	18.2 J	26.0	19.6	19.1	44.4	12
Zinc	mg/kg	1460	739	1160	1630	513	57
PCBs							
Aroclor-1016 (PCB-1016)	ug/kg	4200 U	41 U	400 U	50 U	46 U	22 U
Aroclor-1221 (PCB-1221)	ug/kg	4200 U	41 U	400 U	50 U	46 U	24 U
Aroclor-1232 (PCB-1232)	ug/kg	4200 U	41 U	400 U	50 U	46 U	23 U
Aroclor-1242 (PCB-1242)	ug/kg	15000	41 U	400 U	50 U	46 U	19 U
Aroclor-1248 (PCB-1248)	ug/kg	4200 U	41 U	400 U	50 U	46 U	160
Aroclor-1254 (PCB-1254)	ug/kg	4700	120 J	400 U	51	53	23 U
Aroclor-1260 (PCB-1260)	ug/kg	4200 U	41 U	400 U	50 U	46 U	63
Pesticides							
4,4'-DDD	ug/kg	110 U	210 U	210 U	260 U	240 U	33 U
4,4'-DDE	ug/kg	28 J	210 U	210 U	260 U	240 U	12 U
4,4'-DDT	ug/kg	110 UJ	210 U	210 U	260 U	240 U	14 U
Aldrin	ug/kg	110 U	210 U	210 U	260 U	240 U	24 U
alpha-BHC	ug/kg	110 U	210 U	210 U	260 U	240 U	16 U
alpha-Chlordane	ug/kg	110 U	210 U	210 U	260 U	240 U	38 U
beta-BHC	ug/kg	110 U	210 U	210 U	260 U	240 U	39 U
delta-BHC	ug/kg	110 U	210 U	210 U	260 U	240 U	13 U
Dieldrin	ug/kg	38 J	210 U	210 U	260 U	240 U	8.9 U
Endosulfan I	ug/kg	110 U	210 U	210 U	260 U	240 U	13 U
Endosulfan II	ug/kg	110 U	210 U	210 U	260 U	240 U	18 U
Endosulfan sulfate	ug/kg	110 U	210 U	210 U	260 U	240 U	12 U
Endrin	ug/kg	110 U	210 U	210 U	260 U	240 U	14 U
Endrin aldehyde	ug/kg	110 U	210 U	210 U	260 U	240 U	18 U
Endrin ketone	ug/kg	110 U	210 U	210 U	260 U	240 U	11 U
gamma-BHC (lindane)	ug/kg	110 U	210 U	210 U	260 U	240 U	29 U
gamma-Chlordane	ug/kg	110 U	210 U	210 U	260 U	240 U	15 U
Heptachlor	ug/kg	110 U	210 U	210 U	260 U	240 U	7.8 U
Heptachlor epoxide	ug/kg	110 U	210 U	210 U	260 U	240 U	24 U
Methoxychlor	ug/kg	210 U	410 U	400 U	500 U	460 U	12 UJ
Toxaphene	ug/kg	4200 U	8300 U	8100 U	10000 U	9400 U	370 U
Herbicides							
2,4,5-TP (Silvex)	ug/kg	500 U	1200 U	490 U	30 U	1400 U	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	2000 U	4900 UJ	1900 UJ	120 U	5600 UJ	-
Dioxin/Furans							
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	32
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	510

Table 13

Summary of Analytical Results
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-7**	**TT-21**	**TT-21**	**TT-22**	**TT-22**	**TT-24**
Sample ID:		**S-38443-100708-KMV-063**	**S-38443-100808-KMV-068**	**S-38443-100808-KMV-069**	**S-38443-100808-KMV-066**	**S-38443-100808-KMV-067**	**SO-38443-032018-BW-002**
Sample Date:		**10/7/2008**	**10/8/2008**	**10/8/2008**	**10/8/2008**	**10/8/2008**	**3/20/2018**
Sample Depth:		**16 ft BGS**	**8 ft BGS**	**21 ft BGS**	**6 ft BGS**	**21 ft BGS**	**2-4 ft bgs**
Parameters	**Units**						
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	21
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	68
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	1.3 J
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	6.0
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	1.9 J
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	3.8 J
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	7.0
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	0.34 U
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	5.5
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	1.6 J
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	2.6 J
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	2.8
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	3.4
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	4.3
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	0.50 J
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	48 J
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	140 J
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	75 J
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	74 J
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	140 J
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	100 J
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	180 J
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	12 J
Asbestos							
Asbestos	%	-	-	-	-	-	-
Chrysotile asbestos	%	-	-	-	-	-	-
Geotechnical							
Coarse sand	%	-	-	-	-	-	-
Fine sand	%	-	-	-	-	-	-
Fines	%	-	-	-	-	-	-
Gravel	%	-	-	-	-	-	-
Medium sand	%	-	-	-	-	-	-
Sand	%	-	-	-	-	-	-
Sieve, #4	% passed	-	-	-	-	-	-
Sieve, #10	% passed	-	-	-	-	-	-
Sieve, #20	% passed	-	-	-	-	-	-
Sieve, #40	% passed	-	-	-	-	-	-
Sieve, #60	% passed	-	-	-	-	-	-
Sieve, #80	% passed	-	-	-	-	-	-
Sieve, #100	% passed	-	-	-	-	-	-
Sieve, #200	% passed	-	-	-	-	-	-
Sieve, 0.375 inch	% passed	-	-	-	-	-	-
Sieve, 0.75 inch	% passed	-	-	-	-	-	-
Sieve, 1 inch	% passed	-	-	-	-	-	-

Table 13

Summary of Analytical Results
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-7**	**TT-21**	**TT-21**	**TT-22**	**TT-22**	**TT-24**
Sample ID:		**S-38443-100708-KMV-063**	**S-38443-100808-KMV-068**	**S-38443-100808-KMV-069**	**S-38443-100808-KMV-066**	**S-38443-100808-KMV-067**	**SO-38443-032018-BW-002**
Sample Date:		**10/7/2008**	**10/8/2008**	**10/8/2008**	**10/8/2008**	**10/8/2008**	**3/20/2018**
Sample Depth:		**16 ft BGS**	**8 ft BGS**	**21 ft BGS**	**6 ft BGS**	**21 ft BGS**	**2-4 ft bgs**
Parameters	**Units**						
Sieve, 1.5 inch	% passed	-	-	-	-	-	-
Sieve, 2 inch	% passed	-	-	-	-	-	-
Sieve, 3 inch	% passed	-	-	-	-	-	-
General Chemistry							
Cellulose	%	-	-	-	-	-	-
Cyanide (total)	mg/kg	1.4	3.4	0.51 J	0.28 J	0.36 J	0.15 U
Fraction organic carbon (FOC)	%	-	-	-	-	-	-
Total solids	%	79.3	81.0	82.2	66.6	71.5	-

Notes
< - Less than reported value.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 13

Summary of Analytical Results
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-24**	**VAS-5**
Sample ID:		**SO-38443-032018-BW-001**	**S-38443-121508-KMV-096**
Sample Date:		**3/20/2018**	**12/15/2008**
Sample Depth:		**13-15 ft BGS**	**7 ft BGS**
Parameters	**Units**		
Volatiles			
1,1,1-Trichloroethane	ug/kg	1200 U	-
1,1,2,2-Tetrachloroethane	ug/kg	1000 U	-
1,1,2-Trichloroethane	ug/kg	990 U	-
1,1-Dichloroethane	ug/kg	1300 U	-
1,1-Dichloroethene	ug/kg	1600 U	-
1,2,4-Trichlorobenzene	ug/kg	1100 U	-
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	2100 U	-
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	990 U	-
1,2-Dichlorobenzene	ug/kg	780 U	-
1,2-Dichloroethane	ug/kg	1300 U	-
1,2-Dichloropropane	ug/kg	1300 U	-
1,3-Dichlorobenzene	ug/kg	1600 U	-
1,4-Dichlorobenzene	ug/kg	1200 U	-
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	2200 U	-
2-Hexanone	ug/kg	3700 U	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	1700 U	-
Acetone	ug/kg	4200 U	-
Benzene	ug/kg	1000 U	-
Bromodichloromethane	ug/kg	780 U	-
Bromoform	ug/kg	990 U	-
Bromomethane (Methyl bromide)	ug/kg	1200 U	-
Carbon disulfide	ug/kg	780 U	-
Carbon tetrachloride	ug/kg	1200 U	-
Chlorobenzene	ug/kg	1300 U	-
Chloroethane	ug/kg	1200 U	-
Chloroform (Trichloromethane)	ug/kg	1000 U	-
Chloromethane (Methyl chloride)	ug/kg	780 U	-
cis-1,2-Dichloroethene	ug/kg	1500 U	-
cis-1,3-Dichloropropene	ug/kg	990 U	-
Cyclohexane	ug/kg	1300 U	-
Dibromochloromethane	ug/kg	1500 U	-
Dichlorodifluoromethane (CFC-12)	ug/kg	950 U	-
Ethylbenzene	ug/kg	210000 J	-
Isopropyl benzene	ug/kg	15000 J	-
Methyl acetate	ug/kg	3200 U	-
Methyl cyclohexane	ug/kg	14000 J	-
Methyl tert butyl ether (MTBE)	ug/kg	1100 U	-
Methylene chloride	ug/kg	6100 U	-
Styrene	ug/kg	430 U	-
Tetrachloroethene	ug/kg	910 U	-
Toluene	ug/kg	6500 J	-
trans-1,2-Dichloroethene	ug/kg	1500 U	-
trans-1,3-Dichloropropene	ug/kg	650 U	-
Trichloroethene	ug/kg	1600 U	-
Trichlorofluoromethane (CFC-11)	ug/kg	1500 U	-

Table 13

Summary of Analytical Results
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-24**	**VAS-5**
Sample ID:		**SO-38443-032018-BW-001**	**S-38443-121508-KMV-096**
Sample Date:		**3/20/2018**	**12/15/2008**
Sample Depth:		**13-15 ft BGS**	**7 ft BGS**
Parameters	**Units**		
Trifluorotrichloroethane (CFC-113)	ug/kg	990 U	-
Vinyl chloride	ug/kg	730 U	-
Xylenes (total)	ug/kg	590000 J	-
Semi-Volatiles			
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	590 U	-
2,4,5-Trichlorophenol	ug/kg	1600 U	-
2,4,6-Trichlorophenol	ug/kg	550 U	-
2,4-Dichlorophenol	ug/kg	1200 U	-
2,4-Dimethylphenol	ug/kg	1200 U	-
2,4-Dinitrophenol	ug/kg	1300 U	-
2,4-Dinitrotoluene	ug/kg	1100 U	-
2,6-Dinitrotoluene	ug/kg	1300 U	-
2-Chloronaphthalene	ug/kg	28 U	-
2-Chlorophenol	ug/kg	510 U	-
2-Methylnaphthalene	ug/kg	4800	-
2-Methylphenol	ug/kg	690 U	-
2-Nitroaniline	ug/kg	570 U	-
2-Nitrophenol	ug/kg	520 U	-
3&4-Methylphenol	ug/kg	1200 U	-
3,3'-Dichlorobenzidine	ug/kg	1100 U	-
3-Nitroaniline	ug/kg	1000 U	-
4,6-Dinitro-2-methylphenol	ug/kg	570 U	-
4-Bromophenyl phenyl ether	ug/kg	810 U	-
4-Chloro-3-methylphenol	ug/kg	1300 U	-
4-Chloroaniline	ug/kg	1100 U	-
4-Chlorophenyl phenyl ether	ug/kg	810 U	-
4-Methylphenol	ug/kg	-	-
4-Nitroaniline	ug/kg	1600 U	-
4-Nitrophenol	ug/kg	1100 U	-
Acenaphthene	ug/kg	470	-
Acenaphthylene	ug/kg	22 U	-
Acetophenone	ug/kg	570 U	-
Anthracene	ug/kg	49 U	-
Atrazine	ug/kg	570 U	-
Benzaldehyde	ug/kg	750 U	-
Benzo(a)anthracene	ug/kg	39 U	-
Benzo(a)pyrene	ug/kg	40 U	-
Benzo(b)fluoranthene	ug/kg	37 U	-
Benzo(g,h,i)perylene	ug/kg	22 U	-
Benzo(k)fluoranthene	ug/kg	42 U	-
Biphenyl (1,1-Biphenyl)	ug/kg	740 J	-
bis(2-Chloroethoxy)methane	ug/kg	1400 U	-
bis(2-Chloroethyl)ether	ug/kg	120 U	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	4000 U	-
Butyl benzylphthalate (BBP)	ug/kg	620 U	-

Table 13

Summary of Analytical Results
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-24**	**VAS-5**
Sample ID:		**SO-38443-032018-BW-001**	**S-38443-121508-KMV-096**
Sample Date:		**3/20/2018**	**12/15/2008**
Sample Depth:		**13-15 ft BGS**	**7 ft BGS**
Parameters	**Units**		
Caprolactam	ug/kg	2300 U	-
Carbazole	ug/kg	1700 U	-
Chrysene	ug/kg	69 U	-
Dibenz(a,h)anthracene	ug/kg	41 U	-
Dibenzofuran	ug/kg	41 U	-
Diethyl phthalate	ug/kg	1000 U	-
Dimethyl phthalate	ug/kg	1100 U	-
Di-n-butylphthalate (DBP)	ug/kg	6000	-
Di-n-octyl phthalate (DnOP)	ug/kg	490 U	-
Fluoranthene	ug/kg	1200	-
Fluorene	ug/kg	290 J	-
Hexachlorobenzene	ug/kg	130 U	-
Hexachlorobutadiene	ug/kg	350 U	-
Hexachlorocyclopentadiene	ug/kg	500 U	-
Hexachloroethane	ug/kg	560 U	-
Indeno(1,2,3-cd)pyrene	ug/kg	22 U	-
Isophorone	ug/kg	810 U	-
Naphthalene	ug/kg	9800	-
Nitrobenzene	ug/kg	140 U	-
N-Nitrosodi-n-propylamine	ug/kg	390 U	-
N-Nitrosodiphenylamine	ug/kg	1300 U	-
Pentachlorophenol	ug/kg	570 U	-
Phenanthrene	ug/kg	1400	-
Phenol	ug/kg	450 U	-
Pyrene	ug/kg	1000	-
Metals			
Aluminum	mg/kg	6600	-
Antimony	mg/kg	0.61 J	-
Arsenic	mg/kg	13	-
Barium	mg/kg	320	-
Beryllium	mg/kg	3.2	-
Cadmium	mg/kg	0.86	-
Calcium	mg/kg	2600 J	-
Chromium	mg/kg	23	-
Chromium III (trivalent)	mg/kg	-	-
Chromium VI (hexavalent)	mg/kg	-	-
Cobalt	mg/kg	9.2	-
Copper	mg/kg	210	-
Iron	mg/kg	5700	-
Lead	mg/kg	69	-
Magnesium	mg/kg	800	-
Manganese	mg/kg	37	-
Mercury	mg/kg	0.70	-
Nickel	mg/kg	19	-
Potassium	mg/kg	970 J	-

Table 13

Summary of Analytical Results
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-24**	**VAS-5**
Sample ID:		**SO-38443-032018-BW-001**	**S-38443-121508-KMV-096**
Sample Date:		**3/20/2018**	**12/15/2008**
Sample Depth:		**13-15 ft BGS**	**7 ft BGS**
Parameters	**Units**		
Selenium	mg/kg	4.5	-
Silver	mg/kg	0.28	-
Sodium	mg/kg	290	-
Thallium	mg/kg	0.50	-
Vanadium	mg/kg	33	-
Zinc	mg/kg	240	-
PCBs			
Aroclor-1016 (PCB-1016)	ug/kg	130 U	-
Aroclor-1221 (PCB-1221)	ug/kg	150 U	-
Aroclor-1232 (PCB-1232)	ug/kg	140 U	-
Aroclor-1242 (PCB-1242)	ug/kg	120 U	-
Aroclor-1248 (PCB-1248)	ug/kg	150 U	-
Aroclor-1254 (PCB-1254)	ug/kg	2600	-
Aroclor-1260 (PCB-1260)	ug/kg	130 U	-
Pesticides			
4,4'-DDD	ug/kg	81 U	-
4,4'-DDE	ug/kg	29 U	-
4,4'-DDT	ug/kg	34 U	-
Aldrin	ug/kg	59 U	-
alpha-BHC	ug/kg	39 U	-
alpha-Chlordane	ug/kg	93 U	-
beta-BHC	ug/kg	95 U	-
delta-BHC	ug/kg	32 U	-
Dieldrin	ug/kg	22 U	-
Endosulfan I	ug/kg	32 U	-
Endosulfan II	ug/kg	44 U	-
Endosulfan sulfate	ug/kg	29 U	-
Endrin	ug/kg	34 U	-
Endrin aldehyde	ug/kg	44 U	-
Endrin ketone	ug/kg	27 U	-
gamma-BHC (lindane)	ug/kg	71 U	-
gamma-Chlordane	ug/kg	37 U	-
Heptachlor	ug/kg	19 U	-
Heptachlor epoxide	ug/kg	59 U	-
Methoxychlor	ug/kg	29 UJ	-
Toxaphene	ug/kg	900 U	-
Herbicides			
2,4,5-TP (Silvex)	ug/kg	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	-	-
Dioxin/Furans			
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	730	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	6300	-

Table 13

Summary of Analytical Results
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-24**	**VAS-5**
Sample ID:		**SO-38443-032018-BW-001**	**S-38443-121508-KMV-096**
Sample Date:		**3/20/2018**	**12/15/2008**
Sample Depth:		**13-15 ft BGS**	**7 ft BGS**
Parameters	**Units**		
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	870	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	1200	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	68	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	340	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	27 J	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	110 J	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	100	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	1.0 U	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	100	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	66	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	30 J	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	140	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	110	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	53	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	7.8 J	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	1700 J	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	2300 J	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	1400 J	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	1100 J	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	1500 J	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	1600 J	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	2000 J	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	400 J	-
Asbestos			
Asbestos	%	ND	-
Chrysotile asbestos	%	-	60
Geotechnical			
Coarse sand	%	-	-
Fine sand	%	-	-
Fines	%	-	-
Gravel	%	-	-
Medium sand	%	-	-
Sand	%	-	-
Sieve, #4	% passed	-	-
Sieve, #10	% passed	-	-
Sieve, #20	% passed	-	-
Sieve, #40	% passed	-	-
Sieve, #60	% passed	-	-
Sieve, #80	% passed	-	-
Sieve, #100	% passed	-	-
Sieve, #200	% passed	-	-
Sieve, 0.375 inch	% passed	-	-
Sieve, 0.75 inch	% passed	-	-
Sieve, 1 inch	% passed	-	-

Table 13

Summary of Analytical Results
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-24**	**VAS-5**
Sample ID:		**SO-38443-032018-BW-001**	**S-38443-121508-KMV-096**
Sample Date:		**3/20/2018**	**12/15/2008**
Sample Depth:		**13-15 ft BGS**	**7 ft BGS**
Parameters	**Units**		
Sieve, 1.5 inch	% passed	-	-
Sieve, 2 inch	% passed	-	-
Sieve, 3 inch	% passed	-	-
General Chemistry			
Cellulose	%	-	20
Cyanide (total)	mg/kg	11	-
Fraction organic carbon (FOC)	%	-	-
Total solids	%	-	-

Notes
< - Less than reported value.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 14

Summary of Analytical Results
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH30-13**	**BH31-13**	**BH31-13**	**BH31-13**	**BH162-18**	**BH163-18**	**S05(OEPA)**	**SS-1**
Sample ID:		**S-38443-070213-JT-087**	**S-38443-070113-JC-076**	**S-38443-070113-JC-077**	**S-38443-070113-JC-078**	**S-38443-050818-JC-071**	**S-38443-050818-JC-070**	**96-DV-03-S05**	**S-38443-110917-BW-039**
Sample Date:		**7/2/2013**	**7/1/2013**	**7/1/2013**	**7/1/2013**	**5/8/2018**	**5/8/2018**	**7/9/1996**	**11/9/2017**
Sample Depth:		**29.5-31.5 ft BGS**	**18-20 ft BGS**	**18-20 ft BGS**	**26.5-28.5 ft BGS**	**16-18 ft BGS**	**17-19 ft BGS**	**5 ft BGS**	**0-2 ft BGS**
				Duplicate					
Parameters	**Units**								
Volatiles									
1,1,1-Trichloroethane	ug/kg	4.5 U	260 U	250 U	5.5 U	0.22 U	0.24 U	12 U	0.29 U
1,1,2,2-Tetrachloroethane	ug/kg	4.5 U	260 U	250 U	5.5 U	0.25 U	0.27 U	12 U	0.33 U
1,1,2-Trichloroethane	ug/kg	4.5 U	260 U	250 U	5.5 U	0.38 U	0.40 U	12 U	0.49 U
1,1-Dichloroethane	ug/kg	4.5 U	260 U	250 U	5.5 U	0.32 U	0.34 U	12 U	0.42 U
1,1-Dichloroethene	ug/kg	4.5 U	260 U	250 U	5.5 U	0.52 U	0.56 U	12 U	0.68 U
1,2,4-Trichlorobenzene	ug/kg	4.5 U	260 U	250 U	5.5 U	0.23 U	0.25 U	380 U	0.30 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	9.0 U	520 U	510 U	11 U	0.65 U	0.70 U	-	0.86 U
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	4.5 U	260 U	250 U	5.5 U	0.34 U	0.36 U	-	0.44 U
1,2-Dichlorobenzene	ug/kg	4.5 U	260 U	250 U	5.5 U	0.21 U	0.23 U	380 U	0.28 U
1,2-Dichloroethane	ug/kg	4.5 U	260 U	250 U	5.5 U	0.28 U	0.30 U	12 U	0.37 U
1,2-Dichloroethene (total)	ug/kg	-	-	-	-	-	-	12 U	-
1,2-Dichloropropane	ug/kg	4.5 U	260 U	250 U	5.5 U	0.30 U	0.32 U	12 U	0.39 U
1,3-Dichlorobenzene	ug/kg	4.5 U	260 U	250 U	5.5 U	0.28 U	0.30 U	380 U	0.37 U
1,4-Dichlorobenzene	ug/kg	4.5 U	260 U	250 U	5.5 U	0.34 U	0.36 U	380 U	0.44 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	18 U	49 J	60 J	3.0 J	1.2 U	5.6 J	12 U	1.6 U
2-Hexanone	ug/kg	18 U	1000 U	1000 U	22 U	0.56 U	0.60 U	12 U	0.73 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	18 U	1000 U	1000 U	22 U	0.86 U	0.92 U	12 U	1.1 U
Acetone	ug/kg	18 U	1000 U	1000 U	22 U	2.9 U	45	12 U	11 U
Benzene	ug/kg	0.45 J	260 U	250 U	5.5 U	0.31 U	0.33 U	12 U	0.40 U
Bromodichloromethane	ug/kg	4.5 U	260 U	250 U	5.5 U	0.32 U	0.34 U	12 U	0.42 U
Bromoform	ug/kg	4.5 U	260 U	250 U	5.5 U	0.38 U	0.41 U	12 U	0.50 U
Bromomethane (Methyl bromide)	ug/kg	4.5 U	260 U	250 U	5.5 U	0.57 U	0.61 U	12 U	0.74 U
Carbon disulfide	ug/kg	4.5 U	17 J	22 J	5.5 U	0.20 U	0.22 U	12 U	0.26 U
Carbon tetrachloride	ug/kg	4.5 U	260 U	250 U	5.5 U	0.24 U	0.26 U	12 U	0.32 U
Chlorobenzene	ug/kg	4.5 U	260 U	250 U	5.5 U	0.32 U	0.34 U	12 U	0.42 U
Chloroethane	ug/kg	4.5 U	260 U	250 U	5.5 U	0.37 U	0.39 U	12 U	0.48 U
Chloroform (Trichloromethane)	ug/kg	4.5 U	260 U	250 U	5.5 U	0.22 U	0.24 U	12 U	0.29 U
Chloromethane (Methyl chloride)	ug/kg	4.5 U	260 U	250 U	5.5 U	0.37 U	0.39 U	12 U	0.48 U
cis-1,2-Dichloroethene	ug/kg	4.5 U	260 U	250 U	5.5 U	0.27 U	0.29 U	-	0.35 U
cis-1,3-Dichloropropene	ug/kg	4.5 U	260 U	250 U	5.5 U	0.25 U	0.27 U	12 U	0.33 U
Cyclohexane	ug/kg	0.46 J	520 U	510 U	11 U	0.20 U	0.22 U	-	0.26 U
Dibromochloromethane	ug/kg	4.5 U	260 U	250 U	5.5 U	0.29 U	0.31 U	12 U	0.38 U
Dichlorodifluoromethane (CFC-12)	ug/kg	4.5 U	260 U	250 U	5.5 U	0.34 U	0.36 U	-	0.44 U
Ethylbenzene	ug/kg	0.71 J	13 J	18 J	5.5 U	0.26 U	0.28 U	12 U	0.34 U
Isopropyl benzene	ug/kg	4.5 U	51 J	73 J	5.5 U	0.19 U	0.21 U	-	0.25 U
Methyl acetate	ug/kg	9.0 U	170 J	210 J	1.6 J	1.1 U	1.2 U	-	1.5 U
Methyl cyclohexane	ug/kg	0.87 J	520 U	16 J	11 U	0.22 U	0.24 U	-	0.29 U
Methyl tert butyl ether (MTBE)	ug/kg	4.5 U	260 U	250 U	5.5 U	0.26 U	0.28 U	-	0.34 U
Methylene chloride	ug/kg	4.5 U	260 U	250 U	0.96 J	0.23 U	0.25 U	12 JBU	1.7 U
Styrene	ug/kg	4.5 U	260 U	250 U	5.5 U	0.26 U	0.28 U	12 U	0.34 U
Tetrachloroethene	ug/kg	0.50 J	43 J	37 J	5.5 U	0.36 U	0.38 U	12 U	0.47 U
Toluene	ug/kg	1.6 J	260 U	250 U	0.52 J	0.33 U	1.1 J	12 U	0.43 U
trans-1,2-Dichloroethene	ug/kg	4.5 U	260 U	250 U	5.5 U	0.37 U	0.39 U	-	0.48 U
trans-1,3-Dichloropropene	ug/kg	4.5 U	260 U	250 U	5.5 U	0.20 U	0.22 U	12 U	0.26 U
Trichloroethene	ug/kg	4.7 J	260 U	250 U	5.5 U	0.39 U	0.42 U	12 U	0.52 U
Trichlorofluoromethane (CFC-11)	ug/kg	4.5 U	260 U	250 U	5.5 U	0.23 U	0.25 U	-	0.30 U
Trifluorotrichloroethane (CFC-113)	ug/kg	4.5 U	260 U	250 U	5.5 U	0.47 U	0.51 U	-	0.62 U
Vinyl chloride	ug/kg	4.5 U	260 U	250 U	5.5 U	0.27 U	0.29 U	12 U	0.35 U
Xylenes (total)	ug/kg	9.0 U	520 U	83 J	11 U	0.38 U	0.41 U	12 U	0.50 U

Table 14

Summary of Analytical Results
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH30-13**	**BH31-13**	**BH31-13**	**BH31-13**	**BH162-18**	**BH163-18**	**S05(OEPA)**	**SS-1**
Sample ID:		**S-38443-070213-JT-087**	**S-38443-070113-JC-076**	**S-38443-070113-JC-077**	**S-38443-070113-JC-078**	**S-38443-050818-JC-071**	**S-38443-050818-JC-070**	**96-DV-03-S05**	**S-38443-110917-BW-039**
Sample Date:		**7/2/2013**	**7/1/2013**	**7/1/2013**	**7/1/2013**	**5/8/2018**	**5/8/2018**	**7/9/1996**	**11/9/2017**
Sample Depth:		**29.5-31.5 ft BGS**	**18-20 ft BGS**	**18-20 ft BGS**	**26.5-28.5 ft BGS**	**16-18 ft BGS**	**17-19 ft BGS**	**5 ft BGS**	**0-2 ft BGS**
				Duplicate					
Parameters	**Units**								
Semi-Volatiles									
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	-	-	-	-	11 U	12 U	-	11 U
2,4,5-Trichlorophenol	ug/kg	-	-	-	-	29 U	30 U	960 U	28 U
2,4,6-Trichlorophenol	ug/kg	-	-	-	-	10 U	11 U	380 U	9.9 U
2,4-Dichlorophenol	ug/kg	-	-	-	-	23 U	24 U	380 U	22 U
2,4-Dimethylphenol	ug/kg	-	-	-	-	23 U	24 U	380 U	22 U
2,4-Dinitrophenol	ug/kg	-	-	-	-	24 U	26 U	960 U	23 U
2,4-Dinitrotoluene	ug/kg	-	-	-	-	20 U	21 U	380 U	19 U
2,6-Dinitrotoluene	ug/kg	-	-	-	-	24 U	26 U	380 U	23 U
2-Chloronaphthalene	ug/kg	-	-	-	-	0.52 U	0.55 U	380 U	0.50 U
2-Chlorophenol	ug/kg	-	-	-	-	9.5 U	10 U	380 U	9.1 U
2-Methylnaphthalene	ug/kg	-	-	-	-	0.58 U	0.61 U	380 U	27
2-Methylphenol	ug/kg	-	-	-	-	13 U	13 U	380 U	12 U
2-Nitroaniline	ug/kg	-	-	-	-	11 U	11 U	960 U	10 U
2-Nitrophenol	ug/kg	-	-	-	-	9.6 U	10 U	380 U	9.2 U
3&4-Methylphenol	ug/kg	-	-	-	-	23 U	24 U	-	22 U
3,3'-Dichlorobenzidine	ug/kg	-	-	-	-	21 U	22 U	-	20 U
3-Nitroaniline	ug/kg	-	-	-	-	19 U	19 U	960 U	18 U
4,6-Dinitro-2-methylphenol	ug/kg	-	-	-	-	11 U	11 U	960 U	10 U
4-Bromophenyl phenyl ether	ug/kg	-	-	-	-	15 U	16 U	380 U	14 U
4-Chloro-3-methylphenol	ug/kg	-	-	-	-	24 U	26 U	380 U	23 U
4-Chloroaniline	ug/kg	-	-	-	-	20 U	21 U	380 U	19 U
4-Chlorophenyl phenyl ether	ug/kg	-	-	-	-	15 U	16 U	380 U	14 U
4-Methylphenol	ug/kg	-	-	-	-	-	-	380 U	-
4-Nitroaniline	ug/kg	-	-	-	-	30 U	32 U	960 U	29 U
4-Nitrophenol	ug/kg	-	-	-	-	20 U	21 U	960 U	19 U
Acenaphthene	ug/kg	-	-	-	-	0.88 U	0.93 U	380 U	17
Acenaphthylene	ug/kg	-	-	-	-	0.40 U	0.43 U	380 U	33
Acetophenone	ug/kg	-	-	-	-	11 U	11 U	-	10 U
Anthracene	ug/kg	-	-	-	-	0.90 U	0.95 U	380 U	65
Atrazine	ug/kg	-	-	-	-	11 U	11 U	-	10 U
Benzaldehyde	ug/kg	-	-	-	-	14 UJ	15 J	-	13 U
Benzo(a)anthracene	ug/kg	-	-	-	-	0.73 U	0.77 U	380 U	280
Benzo(a)pyrene	ug/kg	-	-	-	-	0.74 U	0.78 U	380 U	270
Benzo(b)fluoranthene	ug/kg	-	-	-	-	0.68 U	0.72 U	380 U	370
Benzo(g,h,i)perylene	ug/kg	-	-	-	-	0.40 U	0.43 U	380 U	210
Benzo(k)fluoranthene	ug/kg	-	-	-	-	0.79 U	0.83 U	380 U	150
Biphenyl (1,1-Biphenyl)	ug/kg	-	-	-	-	4.0 U	4.3 U	-	3.9 U
bis(2-Chloroethoxy)methane	ug/kg	-	-	-	-	25 U	27 U	380 U	25 U
bis(2-Chloroethyl)ether	ug/kg	-	-	-	-	2.3 U	2.4 U	380 U	2.2 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	-	-	-	-	44 U	46 U	380 U	27 J
Butyl benzylphthalate (BBP)	ug/kg	-	-	-	-	12 U	12 U	380 U	11 U
Caprolactam	ug/kg	-	-	-	-	43 U	45 U	-	41 U
Carbazole	ug/kg	-	-	-	-	31 U	33 U	380 U	30 U
Chrysene	ug/kg	-	-	-	-	1.3 U	1.3 U	27 J	290
Dibenz(a,h)anthracene	ug/kg	-	-	-	-	0.76 U	0.80 U	380 U	54
Dibenzofuran	ug/kg	-	-	-	-	0.76 U	0.80 U	380 U	15 J
Diethyl phthalate	ug/kg	-	-	-	-	19 U	19 U	380 U	18 U
Dimethyl phthalate	ug/kg	-	-	-	-	20 U	21 U	380 U	19 U

Table 14

Summary of Analytical Results
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH30-13**	**BH31-13**	**BH31-13**	**BH31-13**	**BH162-18**	**BH163-18**	**S05(OEPA)**	**SS-1**
Sample ID:		**S-38443-070213-JT-087**	**S-38443-070113-JC-076**	**S-38443-070113-JC-077**	**S-38443-070113-JC-078**	**S-38443-050818-JC-071**	**S-38443-050818-JC-070**	**96-DV-03-S05**	**S-38443-110917-BW-039**
Sample Date:		**7/2/2013**	**7/1/2013**	**7/1/2013**	**7/1/2013**	**5/8/2018**	**5/8/2018**	**7/9/1996**	**11/9/2017**
Sample Depth:		**29.5-31.5 ft BGS**	**18-20 ft BGS**	**18-20 ft BGS**	**26.5-28.5 ft BGS**	**16-18 ft BGS**	**17-19 ft BGS**	**5 ft BGS**	**0-2 ft BGS**
				Duplicate					
Parameters	**Units**								
Di-n-butylphthalate (DBP)	ug/kg	-	-	-	-	17 U	18 U	380 U	20 J
Di-n-octyl phthalate (DnOP)	ug/kg	-	-	-	-	9.1 U	9.6 U	380 U	8.8 U
Fluoranthene	ug/kg	-	-	-	-	0.64 U	0.67 U	31 J	540
Fluorene	ug/kg	-	-	-	-	0.61 U	0.65 U	380 U	17
Hexachlorobenzene	ug/kg	-	-	-	-	2.4 U	2.6 U	380 U	2.3 U
Hexachlorobutadiene	ug/kg	-	-	-	-	6.5 U	6.8 U	380 U	6.2 U
Hexachlorocyclopentadiene	ug/kg	-	-	-	-	R	9.9 U	380 U	9.0 U
Hexachloroethane	ug/kg	-	-	-	-	10 U	11 U	380 U	10 U
Indeno(1,2,3-cd)pyrene	ug/kg	-	-	-	-	0.40 U	0.43 U	380 U	180
Isophorone	ug/kg	-	-	-	-	15 U	16 U	380 U	14 U
Naphthalene	ug/kg	-	-	-	-	0.95 U	1.0 U	380 U	21
Nitrobenzene	ug/kg	-	-	-	-	2.5 U	2.7 U	380 U	2.5 U
N-Nitrosodi-n-propylamine	ug/kg	-	-	-	-	7.3 U	7.7 U	380 U	7.0 U
N-Nitrosodiphenylamine	ug/kg	-	-	-	-	24 U	26 U	380 U	23 U
Pentachlorophenol	ug/kg	-	-	-	-	11 U	11 U	960 U	10 U
Phenanthrene	ug/kg	-	-	-	-	0.84 U	0.89 U	21 J	200
Phenol	ug/kg	-	-	-	-	8.4 U	8.9 U	380 U	8.1 U
Pyrene	ug/kg	-	-	-	-	0.51 U	0.54 U	30 J	440
Metals									
Aluminum	mg/kg	-	-	-	-	7400	6100	9920	4700 J
Antimony	mg/kg	-	-	-	-	0.11 U	0.14 J	3.5 B	0.63 J
Arsenic	mg/kg	-	-	-	-	6.7	4.0	12.2	7.3 J
Barium	mg/kg	-	-	-	-	72	86	268	87 J
Beryllium	mg/kg	-	-	-	-	0.35	0.35	0.68 B	0.48
Cadmium	mg/kg	-	-	-	-	0.26	0.31	0.23 U	0.37 J
Calcium	mg/kg	-	-	-	-	60000	45000	25500	110000 J
Chromium	mg/kg	-	-	-	-	11	8.6	12.6	9.4 J
Chromium III (trivalent)	mg/kg	-	-	-	-	10	8.6	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	0.34 J	1.5 U	-	-
Cobalt	mg/kg	-	-	-	-	5.4	4.6	7.9 B	4.2 J
Copper	mg/kg	-	-	-	-	9.0	9.4	18.3	24 J
Iron	mg/kg	-	-	-	-	15000	12000	19200	11000 J
Lead	mg/kg	-	-	-	-	7.4	6.4	16.8	58 J
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-	65
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-	110
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-	73
Magnesium	mg/kg	-	-	-	-	24000	18000	13200	30000

Table 14

Summary of Analytical Results
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH30-13**	**BH31-13**	**BH31-13**	**BH31-13**	**BH162-18**	**BH163-18**	**S05(OEPA)**	**SS-1**
Sample ID:		**S-38443-070213-JT-087**	**S-38443-070113-JC-076**	**S-38443-070113-JC-077**	**S-38443-070113-JC-078**	**S-38443-050818-JC-071**	**S-38443-050818-JC-070**	**96-DV-03-S05**	**S-38443-110917-BW-039**
Sample Date:		**7/2/2013**	**7/1/2013**	**7/1/2013**	**7/1/2013**	**5/8/2018**	**5/8/2018**	**7/9/1996**	**11/9/2017**
Sample Depth:		**29.5-31.5 ft BGS**	**18-20 ft BGS**	**18-20 ft BGS**	**26.5-28.5 ft BGS**	**16-18 ft BGS**	**17-19 ft BGS**	**5 ft BGS**	**0-2 ft BGS**
				Duplicate					
Parameters	**Units**								
Manganese	mg/kg	-	-	-	-	510	470	621	350 J
Mercury	mg/kg	-	-	-	-	0.021 U	0.025 U	0.12 U	0.068 J
Nickel	mg/kg	-	-	-	-	12	11	15.1	11 J
Potassium	mg/kg	-	-	-	-	580	530	1010 B	660 J
Selenium	mg/kg	-	-	-	-	0.61 J	0.71 J	0.93 U	0.66 UJ
Silver	mg/kg	-	-	-	-	0.022 J	0.027 J	0.23 U	0.068 UJ
Sodium	mg/kg	-	-	-	-	97 J	77 J	364 B	120 U
Thallium	mg/kg	-	-	-	-	0.14 J	0.13 J	2.4	0.16 J
Vanadium	mg/kg	-	-	-	-	17	15	24.0	15 J
Zinc	mg/kg	-	-	-	-	38	32	60.9	90 J
PCBs									
Aroclor-1016 (PCB-1016)	ug/kg	-	-	-	-	25 U	27 U	38 U	27 U
Aroclor-1221 (PCB-1221)	ug/kg	-	-	-	-	28 U	29 U	78 U	25 U
Aroclor-1232 (PCB-1232)	ug/kg	-	-	-	-	27 U	28 U	38 U	18 U
Aroclor-1242 (PCB-1242)	ug/kg	-	-	-	-	22 U	23 U	38 U	22 U
Aroclor-1248 (PCB-1248)	ug/kg	-	-	-	-	28 U	29 U	38 U	19 U
Aroclor-1254 (PCB-1254)	ug/kg	-	-	-	-	27 U	28 U	38 U	15 U
Aroclor-1260 (PCB-1260)	ug/kg	-	-	-	-	25 U	27 U	38 U	20 U
Pesticides									
4,4'-DDD	ug/kg	-	-	-	-	1.7 U	89 U	3.8 U	3.7 U
4,4'-DDE	ug/kg	-	-	-	-	1.7 U	91 U	0.44 PJ	1.4 U
4,4'-DDT	ug/kg	-	-	-	-	1.3 U	68 U	0.71 PJ	1.6 U
Aldrin	ug/kg	-	-	-	-	0.88 U	46 U	2 U	2.7 U
alpha-BHC	ug/kg	-	-	-	-	1.0 U	55 U	2 U	1.8 U
alpha-Chlordane	ug/kg	-	-	-	-	1.7 U	91 U	2 U	4.3 U
beta-BHC	ug/kg	-	-	-	-	2.0 U	100 U	2 U	4.4 U
delta-BHC	ug/kg	-	-	-	-	1.9 U	100 U	2 U	1.5 U
Dieldrin	ug/kg	-	-	-	-	1.3 U	66 U	3.8 U	1.0 U
Endosulfan I	ug/kg	-	-	-	-	1.4 U	72 U	2 U	1.5 U
Endosulfan II	ug/kg	-	-	-	-	1.7 U	89 U	3.8 U	2.0 U
Endosulfan sulfate	ug/kg	-	-	-	-	1.5 U	77 U	3.8 U	1.4 U
Endrin	ug/kg	-	-	-	-	2.2 U	110 U	3.8 U	1.6 U
Endrin aldehyde	ug/kg	-	-	-	-	1.5 U	79 U	4 P	2.0 U
Endrin ketone	ug/kg	-	-	-	-	1.0 U	54 U	3.8 U	1.2 U
gamma-BHC (lindane)	ug/kg	-	-	-	-	2.0 U	110 U	2 U	3.3 U
gamma-Chlordane	ug/kg	-	-	-	-	1.4 U	74 U	2 U	1.7 U
Heptachlor	ug/kg	-	-	-	-	1.8 U	95 U	2 U	0.88 U
Heptachlor epoxide	ug/kg	-	-	-	-	1.6 U	87 U	2 U	2.7 U
Methoxychlor	ug/kg	-	-	-	-	7.5 U	400 U	0.94 PJ	2.8 NJ
Toxaphene	ug/kg	-	-	-	-	29 U	1500 U	200 U	42 U
Herbicides									
2,4,5-T	ug/kg	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/kg	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	-	-	-	-	-	-	-	-

Table 14

Summary of Analytical Results
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH30-13**	**BH31-13**	**BH31-13**	**BH31-13**	**BH162-18**	**BH163-18**	**S05(OEPA)**	**SS-1**
Sample ID:		**S-38443-070213-JT-087**	**S-38443-070113-JC-076**	**S-38443-070113-JC-077**	**S-38443-070113-JC-078**	**S-38443-050818-JC-071**	**S-38443-050818-JC-070**	**96-DV-03-S05**	**S-38443-110917-BW-039**
Sample Date:		**7/2/2013**	**7/1/2013**	**7/1/2013**	**7/1/2013**	**5/8/2018**	**5/8/2018**	**7/9/1996**	**11/9/2017**
Sample Depth:		**29.5-31.5 ft BGS**	**18-20 ft BGS**	**18-20 ft BGS**	**26.5-28.5 ft BGS**	**16-18 ft BGS**	**17-19 ft BGS**	**5 ft BGS**	**0-2 ft BGS**
				Duplicate					
Parameters	**Units**								
Dioxin/Furans									
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-	-
Asbestos									
Asbestos	%	-	-	-	-	-	-	-	-
Chrysotile asbestos	%	-	-	-	-	-	-	-	-
General Chemistry									
Cyanide (total)	mg/kg	-	-	-	-	0.24 U	0.24 J	0.17 U	0.50 U
Total solids	%	-	-	-	-	-	-	-	-

Notes
< - Less than reported value.
> - Greater than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 14

Summary of Analytical Results
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-2**	**SS-3**	**SS-3**	**SS-4**	**SS-5**	**SS-5**	**SS-6**
Sample ID:		**S-38443-110917-BW-037**	**S-38443-110917-BW-034**	**S-38443-110917-BW-035**	**SS-38443-122018-JC-004**	**SS-38443-122018-JC-005**	**SS-38443-122018-JC-226**	**SS-38443-122018-JC-006**
Sample Date:		**11/9/2017**	**11/9/2017**	**11/9/2017**	**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**
Sample Depth:		**0.2-2.2 ft BGS**	**0.3-2.3 ft BGS**	**0.3-2.3 ft BGS**	**0-2 ft BGS**	**0.33-2.33 ft BGS**	**0.33-2.33 ft BGS**	**0.33-2.33 ft BGS**
				Duplicate			**Duplicate**	
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/kg	0.50 U	0.36 U	0.35 U	1.0 U	0.85 U	0.91 U	1.1 U
1,1,2,2-Tetrachloroethane	ug/kg	R	0.41 UJ	0.40 UJ	1.7 U	1.5 U	1.6 U	2.0 U
1,1,2-Trichloroethane	ug/kg	0.85 U	0.62 U	0.60 U	1.4 U	1.2 U	1.3 U	1.6 U
1,1-Dichloroethane	ug/kg	0.72 U	0.52 U	0.51 U	0.84 U	0.72 U	0.77 U	0.95 U
1,1-Dichloroethene	ug/kg	1.2 U	0.86 U	0.83 U	1.1 U	0.94 U	1.0 U	1.2 U
1,2,4-Trichlorobenzene	ug/kg	R	0.38 U	0.37 U	0.70 U	0.59 U	0.63 U	0.78 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	R	1.1 U	1.0 U	4.4 U	3.7 U	4.0 U	4.9 U
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	0.76 U	0.55 U	0.54 U	0.94 U	0.80 U	0.85 U	1.1 U
1,2-Dichlorobenzene	ug/kg	R	0.35 U	0.34 U	1.4 U	1.2 U	1.2 U	1.5 U
1,2-Dichloroethane	ug/kg	0.63 U	0.46 U	0.45 U	0.94 U	0.80 U	0.85 U	1.1 U
1,2-Dichloroethene (total)	ug/kg	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/kg	0.67 U	0.49 U	0.48 U	1.0 U	0.88 U	0.94 U	1.2 U
1,3-Dichlorobenzene	ug/kg	R	0.46 U	0.45 U	0.99 U	0.85 U	0.90 U	1.1 U
1,4-Dichlorobenzene	ug/kg	R	0.55 U	0.54 U	1.1 U	0.91 U	0.98 U	1.2 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	2.8 U	2.0 U	2.0 U	4.3 U	3.7 U	3.9 U	4.9 U
2-Hexanone	ug/kg	1.3 U	0.92 U	0.89 U	5.0 U	4.2 U	4.5 U	5.6 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	1.9 U	1.4 U	1.4 U	4.5 U	3.9 U	4.1 U	5.1 U
Acetone	ug/kg	13 U	18 U	18 U	26 U	22 U	23 U	29 U
Benzene	ug/kg	0.70 U	0.51 U	0.49 U	0.85 U	0.72 U	0.77 U	0.96 U
Bromodichloromethane	ug/kg	0.72 U	0.52 U	0.51 U	0.83 U	0.70 U	0.75 U	0.93 U
Bromoform	ug/kg	0.87 U	0.63 U	0.62 U	2.9 U	2.5 U	2.7 U	3.3 U
Bromomethane (Methyl bromide)	ug/kg	1.3 U	0.94 UJ	0.91 UJ	1.2 U	1.0 U	1.1 U	1.4 U
Carbon disulfide	ug/kg	0.46 U	0.33 U	0.32 U	1.4 U	1.2 U	1.3 U	1.6 U
Carbon tetrachloride	ug/kg	0.54 U	0.40 U	0.39 U	4.0 U	3.4 U	3.6 U	4.5 U
Chlorobenzene	ug/kg	0.72 U	0.52 U	0.51 U	1.1 U	0.95 U	1.0 U	1.3 U
Chloroethane	ug/kg	0.83 U	0.60 U	0.59 U	1.5 U	1.3 U	1.3 U	1.7 U
Chloroform (Trichloromethane)	ug/kg	0.50 U	0.36 U	0.35 U	0.96 U	0.82 U	0.87 U	1.1 U
Chloromethane (Methyl chloride)	ug/kg	0.83 U	0.60 U	0.59 U	1.3 U	1.1 U	1.2 U	1.4 U
cis-1,2-Dichloroethene	ug/kg	0.61 U	0.44 U	0.43 U	0.79 U	0.68 U	0.72 U	0.89 U
cis-1,3-Dichloropropene	ug/kg	0.56 U	0.41 U	0.40 U	1.7 U	1.5 U	1.6 U	2.0 U
Cyclohexane	ug/kg	0.46 U	0.33 U	0.32 U	1.7 U	1.4 U	1.5 U	1.9 U
Dibromochloromethane	ug/kg	0.65 U	0.48 U	0.46 U	3.4 U	2.9 U	3.1 U	3.8 U
Dichlorodifluoromethane (CFC-12)	ug/kg	0.76 U	0.55 U	0.54 U	1.1 U	0.98 U	1.0 U	1.3 U
Ethylbenzene	ug/kg	0.59 U	0.43 U	0.42 U	1.3 U	1.1 U	1.2 U	1.4 U
Isopropyl benzene	ug/kg	0.43 U	0.32 U	0.31 U	1.0 U	0.86 U	0.92 U	1.1 U
Methyl acetate	ug/kg	2.5 U	1.9 U	1.8 U	4.1 U	3.5 U	3.8 U	4.7 U
Methyl cyclohexane	ug/kg	0.50 U	0.36 U	0.35 U	1.5 U	1.3 U	1.4 U	1.7 U
Methyl tert butyl ether (MTBE)	ug/kg	0.59 U	0.43 U	0.42 U	1.0 U	0.85 U	0.91 U	1.1 U
Methylene chloride	ug/kg	4.4 U	2.0 U	2.0 U	15 U	12 U	13 U	16 U
Styrene	ug/kg	0.59 U	0.43 U	0.42 U	1.4 U	1.2 U	1.3 U	1.6 U
Tetrachloroethene	ug/kg	0.80 U	0.59 U	0.57 U	1.5 J	0.76 U	0.81 U	2.4 J
Toluene	ug/kg	0.74 U	0.54 U	0.52 U	0.94 U	0.80 U	0.86 U	1.1 U
trans-1,2-Dichloroethene	ug/kg	0.83 U	0.60 U	0.59 U	0.57 U	0.48 U	0.51 U	0.64 U
trans-1,3-Dichloropropene	ug/kg	0.46 U	0.33 U	0.32 U	1.3 U	1.1 U	1.1 U	1.4 U
Trichloroethene	ug/kg	0.89 U	0.65 U	0.63 U	0.77 U	0.89 J	1.4 J	0.87 U
Trichlorofluoromethane (CFC-11)	ug/kg	0.52 U	0.38 U	0.37 U	1.3 U	1.1 U	1.2 U	1.5 U
Trifluorotrichloroethane (CFC-113)	ug/kg	1.1 U	0.78 U	0.76 U	1.6 U	1.3 U	1.4 U	1.8 U
Vinyl chloride	ug/kg	0.61 U	0.44 U	0.43 U	1.0 U	0.87 U	0.93 U	1.1 U
Xylenes (total)	ug/kg	0.87 U	0.63 U	0.62 U	1.9 U	1.6 U	1.8 U	2.2 U

Table 14

Summary of Analytical Results
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-2**	**SS-3**	**SS-3**	**SS-4**	**SS-5**	**SS-5**	**SS-6**
Sample ID:		**S-38443-110917-BW-037**	**S-38443-110917-BW-034**	**S-38443-110917-BW-035**	**SS-38443-122018-JC-004**	**SS-38443-122018-JC-005**	**SS-38443-122018-JC-226**	**SS-38443-122018-JC-006**
Sample Date:		**11/9/2017**	**11/9/2017**	**11/9/2017**	**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**
Sample Depth:		**0.2-2.2 ft BGS**	**0.3-2.3 ft BGS**	**0.3-2.3 ft BGS**	**0-2 ft BGS**	**0.33-2.33 ft BGS**	**0.33-2.33 ft BGS**	**0.33-2.33 ft BGS**
				Duplicate			**Duplicate**	
Parameters	**Units**							
Semi-Volatiles								
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	13 U	12 U	80 U	13 U	24 U	11 U	38 UJ
2,4,5-Trichlorophenol	ug/kg	34 U	31 U	210 U	87 U	170 U	76 U	260 UJ
2,4,6-Trichlorophenol	ug/kg	12 U	11 U	75 U	80 U	150 U	71 U	240 UJ
2,4-Dichlorophenol	ug/kg	27 U	25 U	170 U	55 U	110 U	48 U	170 UJ
2,4-Dimethylphenol	ug/kg	27 U	25 U	170 U	50 U	96 U	44 U	150 UJ
2,4-Dinitrophenol	ug/kg	29 U	26 U	180 U	180 U	340 U	160 U	530 UJ
2,4-Dinitrotoluene	ug/kg	23 U	21 U	140 U	78 U	150 U	68 U	230 UJ
2,6-Dinitrotoluene	ug/kg	29 U	26 U	180 U	70 U	130 U	62 U	210 UJ
2-Chloronaphthalene	ug/kg	0.61 U	0.56 U	3.8 U	18 U	34 U	15 U	53 UJ
2-Chlorophenol	ug/kg	11 U	10 U	69 U	13 U	24 U	11 U	38 UJ
2-Methylnaphthalene	ug/kg	30	63	75	17 J	33 J	29	18 J
2-Methylphenol	ug/kg	15 U	14 U	93 U	39 U	74 U	34 U	120 UJ
2-Nitroaniline	ug/kg	12 U	11 U	77 U	50 U	96 U	44 U	150 UJ
2-Nitrophenol	ug/kg	11 U	10 U	70 U	16 U	31 U	14 U	49 UJ
3&4-Methylphenol	ug/kg	27 U	25 U	170 U	36 U	70 U	32 U	110 UJ
3,3'-Dichlorobenzidine	ug/kg	25 U	22 U	150 U	54 U	100 U	47 U	160 UJ
3-Nitroaniline	ug/kg	22 U	20 U	130 U	61 U	120 U	54 U	180 UJ
4,6-Dinitro-2-methylphenol	ug/kg	13 U	11 U	78 U	100 U	190 U	88 U	300 UJ
4-Bromophenyl phenyl ether	ug/kg	18 U	16 U	110 U	18 U	34 U	15 U	53 UJ
4-Chloro-3-methylphenol	ug/kg	29 U	26 U	180 U	56 U	110 U	50 U	170 UJ
4-Chloroaniline	ug/kg	23 U	21 U	140 U	38 U	72 U	33 U	110 UJ
4-Chlorophenyl phenyl ether	ug/kg	18 U	16 U	110 U	18 U	34 U	15 U	53 UJ
4-Methylphenol	ug/kg	-	-	-	-	-	-	-
4-Nitroaniline	ug/kg	35 U	32 U	220 U	75 U	140 U	66 U	230 UJ
4-Nitrophenol	ug/kg	23 U	21 U	140 U	120 U	230 U	100 U	350 UJ
Acenaphthene	ug/kg	19	14	6.4 U	17 J	61	33	11 UJ
Acenaphthylene	ug/kg	0.48 U	11	2.9 U	10 J	27 J	13 J	29 J
Acetophenone	ug/kg	14 J	14 J	78 U	14 U	26 U	16 J	41 UJ
Anthracene	ug/kg	49	52	130	34	310 J	110 J	44 J
Atrazine	ug/kg	12 U	11 U	77 U	45 U	86 U	40 U	140 UJ
Benzaldehyde	ug/kg	16 U	15 U	100 U	29 U	55 U	25 U	86 UJ
Benzo(a)anthracene	ug/kg	140	200 J	1000 J	170	1500 J	440 J	230 J
Benzo(a)pyrene	ug/kg	120	210 J	720 J	210	1300	450	310 J
Benzo(b)fluoranthene	ug/kg	180	340 J	1200 J	300	1900	780	440 J
Benzo(g,h,i)perylene	ug/kg	86	190 J	570 J	170	610 J	160 J	250 J
Benzo(k)fluoranthene	ug/kg	82	120 J	430 J	110	820 J	220 J	150 J
Biphenyl (1,1-Biphenyl)	ug/kg	6.3 J	13 J	29 U	21 U	41 U	19 U	64 UJ
bis(2-Chloroethoxy)methane	ug/kg	30 U	27 U	190 U	15 U	29 U	13 U	45 UJ
bis(2-Chloroethyl)ether	ug/kg	2.7 U	2.5 U	17 U	15 U	29 U	13 U	45 UJ
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	81 J	110 J	5100 J	100	130 J	130	190 UJ
Butyl benzylphthalate (BBP)	ug/kg	14 U	12 U	84 U	28 U	53 U	24 U	83 UJ
Caprolactam	ug/kg	50 U	46 U	310 U	94 U	180 U	83 U	280 UJ
Carbazole	ug/kg	37 U	34 U	230 U	24 U	110 J	51 J	71 UJ
Chrysene	ug/kg	150	270 J	1200 J	230	1400 J	460 J	300 J
Dibenz(a,h)anthracene	ug/kg	0.90 U	54	5.6 U	39	200 J	48 J	60 J
Dibenzofuran	ug/kg	20 J	28 J	5.6 U	16 U	43 J	25 J	49 UJ
Diethyl phthalate	ug/kg	22 U	20 U	130 U	39 U	74 U	34 U	120 UJ
Dimethyl phthalate	ug/kg	23 U	21 U	140 U	18 U	34 U	15 U	53 UJ

Table 14

Summary of Analytical Results
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-2**	**SS-3**	**SS-3**	**SS-4**	**SS-5**	**SS-5**	**SS-6**
Sample ID:		**S-38443-110917-BW-037**	**S-38443-110917-BW-034**	**S-38443-110917-BW-035**	**SS-38443-122018-JC-004**	**SS-38443-122018-JC-005**	**SS-38443-122018-JC-226**	**SS-38443-122018-JC-006**
Sample Date:		**11/9/2017**	**11/9/2017**	**11/9/2017**	**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**
Sample Depth:		**0.2-2.2 ft BGS**	**0.3-2.3 ft BGS**	**0.3-2.3 ft BGS**	**0-2 ft BGS**	**0.33-2.33 ft BGS**	**0.33-2.33 ft BGS**	**0.33-2.33 ft BGS**
				Duplicate			**Duplicate**	
Parameters	**Units**							
Di-n-butylphthalate (DBP)	ug/kg	45 J	88	150 J	28 U	53 U	45 J	83 UJ
Di-n-octyl phthalate (DnOP)	ug/kg	11 U	9.8 U	67 U	35 U	67 U	31 U	110 UJ
Fluoranthene	ug/kg	320	310 J	1800 J	380	3200 J	1000 J	450 J
Fluorene	ug/kg	19	9.1	4.5 U	11 J	61	29	10 UJ
Hexachlorobenzene	ug/kg	2.9 U	2.6 U	18 U	3.6 U	6.8 U	3.1 U	11 UJ
Hexachlorobutadiene	ug/kg	7.6 U	7.0 U	47 U	15 U	29 U	13 U	45 UJ
Hexachlorocyclopentadiene	ug/kg	11 U	10 U	68 U	78 U	150 U	68 U	230 UJ
Hexachloroethane	ug/kg	12 U	11 U	76 U	11 U	22 U	9.9 U	34 UJ
Indeno(1,2,3-cd)pyrene	ug/kg	68	150 J	500 J	160	580 J	160 J	220 J
Isophorone	ug/kg	18 U	16 U	110 U	15 U	29 U	13 U	45 UJ
Naphthalene	ug/kg	30	58	80	20	32 J	41	9.1 UJ
Nitrobenzene	ug/kg	3.0 U	2.7 U	19 U	16 U	31 U	14 U	49 UJ
N-Nitrosodi-n-propylamine	ug/kg	8.6 U	7.9 U	53 U	14 U	26 U	12 U	41 UJ
N-Nitrosodiphenylamine	ug/kg	29 U	26 U	180 U	15 U	29 U	13 U	45 UJ
Pentachlorophenol	ug/kg	12 U	11 U	77 U	73 U	140 U	64 U	220 UJ
Phenanthrene	ug/kg	220	190 J	800 J	160	1100	390	200 J
Phenol	ug/kg	9.9 U	9.1 U	62 U	10 U	19 U	19 J	30 UJ
Pyrene	ug/kg	280	310 J	1500 J	290	1900	710	280 J
Metals								
Aluminum	mg/kg	6300 J	5900 J	4300 J	6500	5600	6900	14000
Antimony	mg/kg	2.0 J	6.9 J	1.6 J	0.20	2.5 J	12 J	260
Arsenic	mg/kg	25 J	16 J	12 J	6.2	14	19	29
Barium	mg/kg	380 J	900 J	320 J	130	270	740	1300
Beryllium	mg/kg	3.9	1.5	2.9	0.57	0.60	0.70	1.4
Cadmium	mg/kg	4.0 J	5.0 J	0.79 J	0.54	6.4	14	20
Calcium	mg/kg	8100 J	56000 J	44000 J	71000	77000	78000	25000
Chromium	mg/kg	27 J	38 J	13 J	14	29	46	99
Chromium III (trivalent)	mg/kg	-	-	-	13	28	46	99
Chromium VI (hexavalent)	mg/kg	-	-	-	0.31 J	0.72 J	1.3 U	1.8 U
Cobalt	mg/kg	12 J	19 J	8.0 J	5.2	9.0 J	67 J	23
Copper	mg/kg	1600 J	440 J	89 J	40 J	600 J	770 J	6000 J
Iron	mg/kg	10000 J	34000 J	8300 J	14000	32000	40000	30000
Lead	mg/kg	190 J	760 J	100 J	51	280	330	2400
Lead - coarse fraction	mg/kg	-	690	-	-	-	-	4500 J
Lead - fine fraction	mg/kg	-	920	-	-	-	-	2500
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	740	-	-	-	-	4100
Magnesium	mg/kg	2500	16000	10000	23000	31000	34000	19000

Table 14

Summary of Analytical Results
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-2**	**SS-3**	**SS-3**	**SS-4**	**SS-5**	**SS-5**	**SS-6**
Sample ID:		**S-38443-110917-BW-037**	**S-38443-110917-BW-034**	**S-38443-110917-BW-035**	**SS-38443-122018-JC-004**	**SS-38443-122018-JC-005**	**SS-38443-122018-JC-226**	**SS-38443-122018-JC-006**
Sample Date:		**11/9/2017**	**11/9/2017**	**11/9/2017**	**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**
Sample Depth:		**0.2-2.2 ft BGS**	**0.3-2.3 ft BGS**	**0.3-2.3 ft BGS**	**0-2 ft BGS**	**0.33-2.33 ft BGS**	**0.33-2.33 ft BGS**	**0.33-2.33 ft BGS**
				Duplicate			**Duplicate**	
Parameters	**Units**							
Manganese	mg/kg	140 J	720 J	300 J	430	410	590	760
Mercury	mg/kg	0.18	0.39	0.14 J	0.060 J	0.079 J	0.065 J	0.24
Nickel	mg/kg	30 J	47 J	20 J	15	43 J	150 J	330
Potassium	mg/kg	760 J	820 J	620 J	820 J	800 J	1200 J	1500 J
Selenium	mg/kg	2.8 J	2.1 J	1.8 J	0.48 J	0.77 J	1.3	2.7
Silver	mg/kg	0.44 J	1.0 J	0.28 J	0.25	0.33	0.41	4.9
Sodium	mg/kg	210 U	250	130 U	98 J	140 J	2000 J	410
Thallium	mg/kg	0.51 J	0.26 J	0.41 J	0.20	0.20 J	0.091 J	0.41
Vanadium	mg/kg	35 J	19 J	20 J	16	18	21	42
Zinc	mg/kg	920 J	1400 J	290 J	110 J	370 J	560 J	4500 J
PCBs								
Aroclor-1016 (PCB-1016)	ug/kg	32 U	30 U	31 U	27 U	26 U	24 U	65 U
Aroclor-1221 (PCB-1221)	ug/kg	31 U	29 U	30 U	29 U	28 U	26 U	71 U
Aroclor-1232 (PCB-1232)	ug/kg	22 U	20 U	21 U	28 U	27 U	25 U	68 U
Aroclor-1242 (PCB-1242)	ug/kg	27 U	25 U	26 U	23 U	22 U	21 U	56 U
Aroclor-1248 (PCB-1248)	ug/kg	23 U	21 U	22 U	29 U	28 U	26 U	71 U
Aroclor-1254 (PCB-1254)	ug/kg	120	68	35 J	57 J	630	710	1200
Aroclor-1260 (PCB-1260)	ug/kg	24 U	22 U	23 U	27 U	26 U	24 U	65 U
Pesticides								
4,4'-DDD	ug/kg	4.5 U	41 U	4.2 U	1.8 U	1.8 U	1.6 U	2.2 U
4,4'-DDE	ug/kg	1.6 U	15 U	1.5 U	1.9 U	1.8 U	1.7 U	2.3 U
4,4'-DDT	ug/kg	1.9 U	17 U	1.8 U	3.7 J	1.3 U	1.2 U	1.7 U
Aldrin	ug/kg	3.2 U	30 U	3.1 U	0.96 U	0.92 U	0.84 U	1.2 U
alpha-BHC	ug/kg	2.2 U	20 U	2.0 U	1.1 U	1.1 U	1.0 U	1.4 U
alpha-Chlordane	ug/kg	5.1 U	47 U	4.8 U	1.9 U	13	12	2.3 U
beta-BHC	ug/kg	5.3 U	49 U	5.0 U	2.2 U	2.1 U	1.9 U	2.6 U
delta-BHC	ug/kg	1.8 U	16 U	1.7 U	2.1 U	2.0 U	1.8 U	2.6 U
Dieldrin	ug/kg	1.2 U	11 U	1.1 U	1.4 U	12 J	12 J	11 NJ
Endosulfan I	ug/kg	1.8 U	16 U	1.7 U	1.5 U	1.4 U	1.3 U	1.8 U
Endosulfan II	ug/kg	2.4 U	22 U	2.3 U	1.8 U	1.8 U	1.6 U	2.2 U
Endosulfan sulfate	ug/kg	1.6 U	15 U	1.5 U	1.6 U	1.5 U	1.4 U	1.9 U
Endrin	ug/kg	2.6 NJ	17 U	1.8 U	2.4 U	2.3 U	2.1 U	2.9 U
Endrin aldehyde	ug/kg	3.0 J	22 U	2.3 U	1.6 U	1.7 NJ	1.4 U	2.0 U
Endrin ketone	ug/kg	1.5 U	14 U	1.4 U	1.1 U	1.1 U	0.97 U	1.3 U
gamma-BHC (lindane)	ug/kg	3.9 U	36 U	3.7 U	2.2 U	2.1 U	2.0 U	2.7 U
gamma-Chlordane	ug/kg	2.0 U	19 U	1.9 U	1.5 U	12	11 J	1.9 U
Heptachlor	ug/kg	1.1 U	9.7 U	0.99 U	2.0 U	1.9 U	1.7 U	2.4 U
Heptachlor epoxide	ug/kg	3.2 U	30 U	3.1 U	1.8 U	1.7 U	1.6 U	3.5 NJ
Methoxychlor	ug/kg	1.6 NJ	19 NJ	1.8 J	8.2 U	7.8 U	7.2 U	9.9 U
Toxaphene	ug/kg	50 U	460 U	47 U	31 U	30 U	27 U	38 U
Herbicides								
2,4,5-T	ug/kg	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/kg	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	-	-	-	-	-	-	-

Table 14

Summary of Analytical Results
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-2**	**SS-3**	**SS-3**	**SS-4**	**SS-5**	**SS-5**	**SS-6**
Sample ID:		**S-38443-110917-BW-037**	**S-38443-110917-BW-034**	**S-38443-110917-BW-035**	**SS-38443-122018-JC-004**	**SS-38443-122018-JC-005**	**SS-38443-122018-JC-226**	**SS-38443-122018-JC-006**
Sample Date:		**11/9/2017**	**11/9/2017**	**11/9/2017**	**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**
Sample Depth:		**0.2-2.2 ft BGS**	**0.3-2.3 ft BGS**	**0.3-2.3 ft BGS**	**0-2 ft BGS**	**0.33-2.33 ft BGS**	**0.33-2.33 ft BGS**	**0.33-2.33 ft BGS**
				Duplicate			**Duplicate**	
Parameters	**Units**							
Dioxin/Furans								
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Asbestos								
Asbestos	%	-	-	-	-	-	-	-
Chrysotile asbestos	%	-	-	-	-	-	-	-
General Chemistry								
Cyanide (total)	mg/kg	0.63 U	13 J	0.57 UJ	R	8.7 J	4.9 J	0.88 J
Total solids	%	-	-	-	-	-	-	-

Notes
< - Less than reported value.
> - Greater than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 14

Summary of Analytical Results
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-7**	**SS-8**	**SS-9**	**SS-10**	**SS-11**	**SS-95**	**SS-96**
Sample ID:		**SS-38443-122018-JC-007**	**SS-38443-122018-JC-008**	**SS-38443-122018-JC-009**	**SS-38443-122018-JC-010**	**SS-38443-122018-JC-011**	**SS-38443-122018-JC-095**	**SS-38443-122018-JC-096**
Sample Date:		**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/kg	1.0 U	1.0 U	0.83 U	0.72 U	0.79 U	-	-
1,1,2,2-Tetrachloroethane	ug/kg	1.8 U	1.8 UJ	1.4 U	1.3 U	1.4 U	-	-
1,1,2-Trichloroethane	ug/kg	1.4 U	1.4 U	1.1 U	0.99 U	1.1 U	-	-
1,1-Dichloroethane	ug/kg	0.86 U	0.87 U	0.70 U	0.61 U	0.67 U	-	-
1,1-Dichloroethene	ug/kg	1.1 U	1.1 U	0.91 U	0.79 U	0.87 U	-	-
1,2,4-Trichlorobenzene	ug/kg	0.71 U	0.72 UJ	0.58 U	0.50 U	0.55 U	-	-
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	4.5 U	4.5 UJ	3.7 U	3.2 U	3.5 U	-	-
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	0.95 U	0.97 U	0.78 U	0.67 U	0.74 U	-	-
1,2-Dichlorobenzene	ug/kg	1.4 U	1.4 UJ	1.1 U	0.97 U	1.1 U	-	-
1,2-Dichloroethane	ug/kg	0.95 U	0.97 U	0.78 U	0.68 U	0.74 U	-	-
1,2-Dichloroethene (total)	ug/kg	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/kg	1.1 U	1.1 U	0.86 U	0.75 U	0.82 U	-	-
1,3-Dichlorobenzene	ug/kg	1.0 U	1.0 UJ	0.83 U	0.71 U	0.79 U	-	-
1,4-Dichlorobenzene	ug/kg	1.1 U	1.1 UJ	0.89 U	0.77 U	0.85 U	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	4.4 U	4.5 U	3.6 U	3.1 U	3.4 U	-	-
2-Hexanone	ug/kg	5.0 U	5.1 U	4.1 U	3.6 U	3.9 U	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	4.6 U	4.7 U	3.8 U	3.3 U	3.6 U	-	-
Acetone	ug/kg	26 U	26 U	21 U	18 U	20 U	-	-
Benzene	ug/kg	0.86 U	0.88 U	0.71 U	0.61 U	0.67 U	-	-
Bromodichloromethane	ug/kg	0.84 U	0.85 U	0.69 U	0.59 U	0.65 U	-	-
Bromoform	ug/kg	3.0 U	3.0 U	2.4 U	2.1 U	2.3 U	-	-
Bromomethane (Methyl bromide)	ug/kg	1.2 U	1.2 U	1.0 U	0.86 U	0.95 U	-	-
Carbon disulfide	ug/kg	1.4 U	1.5 U	1.2 U	1.0 U	1.1 U	-	-
Carbon tetrachloride	ug/kg	4.0 U	4.1 U	3.3 U	2.8 U	3.1 U	-	-
Chlorobenzene	ug/kg	1.1 U	1.2 U	0.93 U	0.80 U	0.88 U	-	-
Chloroethane	ug/kg	1.5 U	1.5 U	1.2 U	1.1 U	1.2 U	-	-
Chloroform (Trichloromethane)	ug/kg	0.97 U	0.99 U	0.80 U	0.69 U	0.76 U	-	-
Chloromethane (Methyl chloride)	ug/kg	1.3 U	1.3 U	1.1 U	0.91 U	1.0 U	-	-
cis-1,2-Dichloroethene	ug/kg	0.80 U	0.82 U	0.66 U	0.57 U	0.63 U	-	-
cis-1,3-Dichloropropene	ug/kg	1.8 U	1.8 U	1.5 U	1.3 U	1.4 U	-	-
Cyclohexane	ug/kg	1.7 U	1.7 U	1.4 U	1.2 U	1.3 U	-	-
Dibromochloromethane	ug/kg	3.4 U	3.5 U	2.8 U	2.4 U	2.7 U	-	-
Dichlorodifluoromethane (CFC-12)	ug/kg	1.2 U	1.2 U	0.96 U	0.83 U	0.91 U	-	-
Ethylbenzene	ug/kg	1.3 U	1.3 U	1.1 U	0.92 U	1.0 U	-	-
Isopropyl benzene	ug/kg	1.0 U	1.0 U	0.84 U	0.73 U	0.80 U	-	-
Methyl acetate	ug/kg	4.2 U	4.3 U	3.4 U	3.0 U	3.3 U	-	-
Methyl cyclohexane	ug/kg	1.5 U	1.5 U	1.2 U	1.1 U	1.2 U	-	-
Methyl tert butyl ether (MTBE)	ug/kg	1.0 U	1.0 U	0.83 U	0.72 U	0.79 U	-	-
Methylene chloride	ug/kg	15 U	15 U	12 U	11 U	12 U	-	-
Styrene	ug/kg	1.4 U	1.5 U	1.2 U	1.0 U	1.1 U	-	-
Tetrachloroethene	ug/kg	0.90 U	0.92 U	0.74 U	0.64 U	0.70 U	-	-
Toluene	ug/kg	0.95 U	0.97 U	0.78 U	0.68 U	0.74 U	-	-
trans-1,2-Dichloroethene	ug/kg	0.57 U	0.58 U	0.47 U	0.41 U	0.45 U	-	-
trans-1,3-Dichloropropene	ug/kg	1.3 U	1.3 U	1.0 U	0.91 U	1.0 U	-	-
Trichloroethene	ug/kg	0.78 U	0.80 U	0.64 U	0.55 U	0.61 U	-	-
Trichlorofluoromethane (CFC-11)	ug/kg	1.3 U	1.4 U	1.1 U	0.94 U	1.0 U	-	-
Trifluorotrichloroethane (CFC-113)	ug/kg	1.6 U	1.6 U	1.3 U	1.1 U	1.2 U	-	-
Vinyl chloride	ug/kg	1.0 U	1.1 U	0.85 U	0.73 U	0.81 U	-	-
Xylenes (total)	ug/kg	2.0 U	2.0 U	1.6 U	1.4 U	1.5 U	-	-

Table 14

Summary of Analytical Results
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-7**	**SS-8**	**SS-9**	**SS-10**	**SS-11**	**SS-95**	**SS-96**
Sample ID:		**SS-38443-122018-JC-007**	**SS-38443-122018-JC-008**	**SS-38443-122018-JC-009**	**SS-38443-122018-JC-010**	**SS-38443-122018-JC-011**	**SS-38443-122018-JC-095**	**SS-38443-122018-JC-096**
Sample Date:		**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**							
Semi-Volatiles								
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	12 U	20 U	12 U	12 U	11 U	-	-
2,4,5-Trichlorophenol	ug/kg	81 U	140 U	82 U	82 U	78 U	-	-
2,4,6-Trichlorophenol	ug/kg	75 U	130 U	76 U	76 U	72 U	-	-
2,4-Dichlorophenol	ug/kg	52 U	89 U	52 U	52 U	50 U	-	-
2,4-Dimethylphenol	ug/kg	47 U	81 U	48 U	48 U	45 U	-	-
2,4-Dinitrophenol	ug/kg	R	290 U	170 U	170 U	160 U	-	-
2,4-Dinitrotoluene	ug/kg	73 U	130 U	74 U	74 U	70 U	-	-
2,6-Dinitrotoluene	ug/kg	66 U	110 U	67 U	67 U	63 U	-	-
2-Chloronaphthalene	ug/kg	17 U	28 U	17 U	17 U	16 U	-	-
2-Chlorophenol	ug/kg	12 U	20 U	12 U	12 U	11 U	-	-
2-Methylnaphthalene	ug/kg	43 J	72	120	6.8 J	13 J	-	-
2-Methylphenol	ug/kg	37 U	63 U	37 U	37 U	35 U	-	-
2-Nitroaniline	ug/kg	47 U	81 U	48 U	48 U	45 U	-	-
2-Nitrophenol	ug/kg	15 U	26 U	15 U	16 U	15 U	-	-
3&4-Methylphenol	ug/kg	34 U	58 U	35 U	35 U	33 U	-	-
3,3'-Dichlorobenzidine	ug/kg	51 U	87 U	51 U	51 U	48 U	-	-
3-Nitroaniline	ug/kg	58 U	99 U	58 U	58 U	55 U	-	-
4,6-Dinitro-2-methylphenol	ug/kg	94 U	160 U	95 U	95 U	90 U	-	-
4-Bromophenyl phenyl ether	ug/kg	17 U	28 U	17 U	17 U	16 U	-	-
4-Chloro-3-methylphenol	ug/kg	53 U	91 U	54 U	54 U	51 U	-	-
4-Chloroaniline	ug/kg	35 U	60 U	36 U	36 U	34 U	-	-
4-Chlorophenyl phenyl ether	ug/kg	17 U	28 U	17 U	17 U	16 U	-	-
4-Methylphenol	ug/kg	-	-	-	-	-	-	-
4-Nitroaniline	ug/kg	71 U	120 U	72 U	72 U	68 U	-	-
4-Nitrophenol	ug/kg	110 U	190 U	110 U	110 U	110 U	-	-
Acenaphthene	ug/kg	33 J	31	10 J	3.4 U	3.2 U	-	-
Acenaphthylene	ug/kg	46 J	36	9.1 J	4.8 U	12 J	-	-
Acetophenone	ug/kg	22 J	22 U	13 U	13 U	12 U	-	-
Anthracene	ug/kg	210 J	96	25	5.5 J	22	-	-
Atrazine	ug/kg	42 U	73 U	43 U	43 U	41 U	-	-
Benzaldehyde	ug/kg	30 J	46 U	27 J	27 U	26 U	-	-
Benzo(a)anthracene	ug/kg	950 J	540	99	24	93	-	-
Benzo(a)pyrene	ug/kg	1000 J	600	96	24	110	-	-
Benzo(b)fluoranthene	ug/kg	1600 J	960	170	37	200	-	-
Benzo(g,h,i)perylene	ug/kg	460 J	490	95	19	49	-	-
Benzo(k)fluoranthene	ug/kg	600 J	380	59	9.3 J	60	-	-
Biphenyl (1,1-Biphenyl)	ug/kg	20 U	34 U	20 U	20 U	19 U	-	-
bis(2-Chloroethoxy)methane	ug/kg	14 U	24 U	14 U	14 U	14 U	-	-
bis(2-Chloroethyl)ether	ug/kg	14 U	24 U	14 U	14 U	14 U	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	160 J	150	61 U	61 U	57 U	-	-
Butyl benzylphthalate (BBP)	ug/kg	580	75 J	26 U	26 U	25 U	-	-
Caprolactam	ug/kg	88 U	150 U	89 U	89 U	84 U	-	-
Carbazole	ug/kg	70	67 J	23 U	23 U	21 U	-	-
Chrysene	ug/kg	1000 J	650	140	25	110	-	-
Dibenz(a,h)anthracene	ug/kg	130 J	140	27	8.3 U	7.8 U	-	-
Dibenzofuran	ug/kg	41 J	41 J	37 J	16 U	15 U	-	-
Diethyl phthalate	ug/kg	37 U	63 U	37 U	37 U	35 U	-	-
Dimethyl phthalate	ug/kg	17 U	28 U	17 U	17 U	16 U	-	-

Table 14

Summary of Analytical Results
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-7**	**SS-8**	**SS-9**	**SS-10**	**SS-11**	**SS-95**	**SS-96**
Sample ID:		**SS-38443-122018-JC-007**	**SS-38443-122018-JC-008**	**SS-38443-122018-JC-009**	**SS-38443-122018-JC-010**	**SS-38443-122018-JC-011**	**SS-38443-122018-JC-095**	**SS-38443-122018-JC-096**
Sample Date:		**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**							
Di-n-butylphthalate (DBP)	ug/kg	110 J	44 U	26 U	26 U	25 U	-	-
Di-n-octyl phthalate (DnOP)	ug/kg	33 UJ	56 U	33 U	33 U	32 U	-	-
Fluoranthene	ug/kg	2100	1100	200	39	190	-	-
Fluorene	ug/kg	44 J	35	9.0 J	3.3 U	5.4 J	-	-
Hexachlorobenzene	ug/kg	3.4 UJ	5.7 U	3.4 U	3.4 U	3.2 U	-	-
Hexachlorobutadiene	ug/kg	14 UJ	24 U	14 U	14 U	14 U	-	-
Hexachlorocyclopentadiene	ug/kg	R	130 U	74 U	74 U	70 U	-	-
Hexachloroethane	ug/kg	11 U	18 U	11 U	11 U	10 U	-	-
Indeno(1,2,3-cd)pyrene	ug/kg	450 J	450	65	15 J	47	-	-
Isophorone	ug/kg	14 U	24 U	14 U	14 U	14 U	-	-
Naphthalene	ug/kg	53 J	70	74	2.9 U	9.5 J	-	-
Nitrobenzene	ug/kg	15 U	26 U	15 U	16 U	15 U	-	-
N-Nitrosodi-n-propylamine	ug/kg	13 U	22 U	13 U	13 U	12 U	-	-
N-Nitrosodiphenylamine	ug/kg	14 U	24 U	14 U	14 U	14 U	-	-
Pentachlorophenol	ug/kg	68 U	120 U	69 U	69 U	65 U	-	-
Phenanthrene	ug/kg	630 J	500	170	21	84	-	-
Phenol	ug/kg	9.4 U	16 U	9.5 U	9.5 U	9.0 U	-	-
Pyrene	ug/kg	1400 J	840	150	32	140	-	-
Metals								
Aluminum	mg/kg	4600	11000	10000	12000	5500	-	-
Antimony	mg/kg	80	3.2	15	8.3	0.85	-	-
Arsenic	mg/kg	8.7	16	16	13	8.2	-	-
Barium	mg/kg	470	330	400	1800	86	-	-
Beryllium	mg/kg	0.44	0.87	0.56	0.60	0.32	-	-
Cadmium	mg/kg	6.6	3.0	0.81	0.24	0.48	-	-
Calcium	mg/kg	82000	62000	34000	12000	100000	-	-
Chromium	mg/kg	50	46	19	18	12	-	-
Chromium III (trivalent)	mg/kg	50	46	19	18	12	-	-
Chromium VI (hexavalent)	mg/kg	2.8 U	3.3 U	1.4 U	1.4 U	1.4 U	-	-
Cobalt	mg/kg	6.9	9.9	6.7	7.9	5.3	-	-
Copper	mg/kg	930 J	310 J	53 J	19 J	25 J	-	-
Iron	mg/kg	19000	21000	18000	20000	14000	-	-
Lead	mg/kg	930	450	60	20	68	-	-
Lead - coarse fraction	mg/kg	-	320 J	-	20 J	-	-	-
Lead - fine fraction	mg/kg	-	300	-	47	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	320	-	22	-	-	-
Magnesium	mg/kg	43000	24000	17000	7100	46000	-	-

Table 14

Summary of Analytical Results
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-7**	**SS-8**	**SS-9**	**SS-10**	**SS-11**	**SS-95**	**SS-96**
Sample ID:		**SS-38443-122018-JC-007**	**SS-38443-122018-JC-008**	**SS-38443-122018-JC-009**	**SS-38443-122018-JC-010**	**SS-38443-122018-JC-011**	**SS-38443-122018-JC-095**	**SS-38443-122018-JC-096**
Sample Date:		**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**							
Manganese	mg/kg	330	540	530	760	320	-	-
Mercury	mg/kg	0.068 J	0.23	0.081 J	0.052 J	0.15	-	-
Nickel	mg/kg	60	43	19	19	17	-	-
Potassium	mg/kg	680 J	1500 J	1300 J	1200 J	1200 J	-	-
Selenium	mg/kg	0.98	1.4	0.59 J	0.32 J	0.29 J	-	-
Silver	mg/kg	0.76	1.5	0.29	0.062 J	0.098 J	-	-
Sodium	mg/kg	240	130 J	87 J	65 J	140 J	-	-
Thallium	mg/kg	0.17	0.22	0.12	0.085 J	0.29	-	-
Vanadium	mg/kg	16	28	27	29	18	-	-
Zinc	mg/kg	780 J	280 J	110 J	59 J	79 J	-	-
PCBs								
Aroclor-1016 (PCB-1016)	ug/kg	25 U	58 U	25 U	25 U	24 U	-	-
Aroclor-1221 (PCB-1221)	ug/kg	28 U	63 U	27 U	28 U	26 U	-	-
Aroclor-1232 (PCB-1232)	ug/kg	26 U	60 U	26 U	27 U	25 U	-	-
Aroclor-1242 (PCB-1242)	ug/kg	22 U	50 U	21 U	22 U	21 U	-	-
Aroclor-1248 (PCB-1248)	ug/kg	28 U	63 U	27 U	28 U	26 U	-	-
Aroclor-1254 (PCB-1254)	ug/kg	170	1700	53 J	27 U	41 J	-	-
Aroclor-1260 (PCB-1260)	ug/kg	25 U	58 U	25 U	25 U	24 U	-	-
Pesticides								
4,4'-DDD	ug/kg	1.7 U	10 U	1.7 U	1.7 U	1.7 U	-	-
4,4'-DDE	ug/kg	4.8 J	11 U	2.0 J	1.7 U	1.7 U	-	-
4,4'-DDT	ug/kg	9.3 NJ	7.9 U	1.3 U	1.3 U	3.1 J	-	-
Aldrin	ug/kg	0.88 U	5.4 U	0.88 U	0.89 U	0.87 U	-	-
alpha-BHC	ug/kg	1.0 U	6.3 U	1.0 U	1.0 U	1.0 U	-	-
alpha-Chlordane	ug/kg	1.7 U	10 U	1.7 U	1.7 U	1.7 U	-	-
beta-BHC	ug/kg	2.0 U	12 U	2.0 U	2.0 U	2.0 U	-	-
delta-BHC	ug/kg	1.9 U	12 U	1.9 U	1.9 U	1.9 U	-	-
Dieldrin	ug/kg	7.2 J	7.7 U	1.3 U	1.3 U	1.2 U	-	-
Endosulfan I	ug/kg	1.4 U	8.4 U	1.4 U	1.4 U	1.4 U	-	-
Endosulfan II	ug/kg	1.7 U	10 U	1.7 U	1.7 U	1.7 U	-	-
Endosulfan sulfate	ug/kg	1.5 U	8.9 U	1.5 U	1.5 U	1.4 U	-	-
Endrin	ug/kg	2.2 U	13 U	2.2 U	2.2 U	2.2 U	-	-
Endrin aldehyde	ug/kg	1.5 U	9.1 U	1.5 U	1.5 U	1.5 U	-	-
Endrin ketone	ug/kg	1.0 U	6.2 U	1.0 U	1.0 U	1.0 U	-	-
gamma-BHC (lindane)	ug/kg	2.1 U	12 U	2.0 U	2.1 U	2.0 U	-	-
gamma-Chlordane	ug/kg	1.4 NJ	8.6 U	1.4 U	1.4 U	1.4 U	-	-
Heptachlor	ug/kg	1.8 U	11 U	1.8 U	1.8 U	1.8 U	-	-
Heptachlor epoxide	ug/kg	2.1 J	10 U	1.6 U	1.7 U	1.6 U	-	-
Methoxychlor	ug/kg	7.5 U	46 U	7.5 U	7.6 U	7.4 U	-	-
Toxaphene	ug/kg	29 U	170 U	29 U	29 U	28 U	-	-
Herbicides								
2,4,5-T	ug/kg	-	-	-	-	-	15 U	15 U
2,4,5-TP (Silvex)	ug/kg	-	-	-	-	-	16 U	16 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	-	-	-	-	-	58 U	58 U

Table 14

Summary of Analytical Results
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-7**	**SS-8**	**SS-9**	**SS-10**	**SS-11**	**SS-95**	**SS-96**
Sample ID:		**SS-38443-122018-JC-007**	**SS-38443-122018-JC-008**	**SS-38443-122018-JC-009**	**SS-38443-122018-JC-010**	**SS-38443-122018-JC-011**	**SS-38443-122018-JC-095**	**SS-38443-122018-JC-096**
Sample Date:		**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**							
Dioxin/Furans								
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Asbestos								
Asbestos	%	-	-	-	-	-	-	-
Chrysotile asbestos	%	-	-	-	-	-	-	-
General Chemistry								
Cyanide (total)	mg/kg	0.49 J	0.29 J	R	R	R	-	-
Total solids	%	-	-	-	-	-	-	-

Notes
< - Less than reported value.
> - Greater than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 14

Summary of Analytical Results
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-97**	**SS-127**	**SS-128**	**SS-129**	**SS-174-AS**	**SS-175-AS**	**SS-176-AS**
Sample ID:		**SS-38443-122018-JC-097**	**SS-38443-122018-JC-127**	**SS-38443-122018-JC-128**	**SS-38443-122018-JC-129**	**SS-38443-122018-JC-174**	**SS-38443-112718-JC-175**	**SS-38443-112718-JC-176**
Sample Date:		**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**	**11/27/2018**	**11/27/2018**
Sample Depth:		**0.33-2.33 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0.33-0.83 ft BGS**
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/kg	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	ug/kg	-	-	-	-	-	-	-
1,1,2-Trichloroethane	ug/kg	-	-	-	-	-	-	-
1,1-Dichloroethane	ug/kg	-	-	-	-	-	-	-
1,1-Dichloroethene	ug/kg	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	ug/kg	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	-	-	-	-	-	-	-
1,2-Dichlorobenzene	ug/kg	-	-	-	-	-	-	-
1,2-Dichloroethane	ug/kg	-	-	-	-	-	-	-
1,2-Dichloroethene (total)	ug/kg	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/kg	-	-	-	-	-	-	-
1,3-Dichlorobenzene	ug/kg	-	-	-	-	-	-	-
1,4-Dichlorobenzene	ug/kg	-	-	-	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	-	-	-	-	-	-	-
2-Hexanone	ug/kg	-	-	-	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	-	-	-	-	-	-	-
Acetone	ug/kg	-	-	-	-	-	-	-
Benzene	ug/kg	-	-	-	-	-	-	-
Bromodichloromethane	ug/kg	-	-	-	-	-	-	-
Bromoform	ug/kg	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	ug/kg	-	-	-	-	-	-	-
Carbon disulfide	ug/kg	-	-	-	-	-	-	-
Carbon tetrachloride	ug/kg	-	-	-	-	-	-	-
Chlorobenzene	ug/kg	-	-	-	-	-	-	-
Chloroethane	ug/kg	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	ug/kg	-	-	-	-	-	-	-
Chloromethane (Methyl chloride)	ug/kg	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	ug/kg	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	ug/kg	-	-	-	-	-	-	-
Cyclohexane	ug/kg	-	-	-	-	-	-	-
Dibromochloromethane	ug/kg	-	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	ug/kg	-	-	-	-	-	-	-
Ethylbenzene	ug/kg	-	-	-	-	-	-	-
Isopropyl benzene	ug/kg	-	-	-	-	-	-	-
Methyl acetate	ug/kg	-	-	-	-	-	-	-
Methyl cyclohexane	ug/kg	-	-	-	-	-	-	-
Methyl tert butyl ether (MTBE)	ug/kg	-	-	-	-	-	-	-
Methylene chloride	ug/kg	-	-	-	-	-	-	-
Styrene	ug/kg	-	-	-	-	-	-	-
Tetrachloroethene	ug/kg	-	-	-	-	-	-	-
Toluene	ug/kg	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	ug/kg	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	ug/kg	-	-	-	-	-	-	-
Trichloroethene	ug/kg	-	-	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	ug/kg	-	-	-	-	-	-	-
Trifluorotrichloroethane (CFC-113)	ug/kg	-	-	-	-	-	-	-
Vinyl chloride	ug/kg	-	-	-	-	-	-	-
Xylenes (total)	ug/kg	-	-	-	-	-	-	-

Table 14

Summary of Analytical Results
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-97**	**SS-127**	**SS-128**	**SS-129**	**SS-174-AS**	**SS-175-AS**	**SS-176-AS**
Sample ID:		**SS-38443-122018-JC-097**	**SS-38443-122018-JC-127**	**SS-38443-122018-JC-128**	**SS-38443-122018-JC-129**	**SS-38443-122018-JC-174**	**SS-38443-112718-JC-175**	**SS-38443-112718-JC-176**
Sample Date:		**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**	**11/27/2018**	**11/27/2018**
Sample Depth:		**0.33-2.33 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0.33-0.83 ft BGS**
Parameters	**Units**							
Semi-Volatiles								
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	ug/kg	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	ug/kg	-	-	-	-	-	-	-
2,4-Dichlorophenol	ug/kg	-	-	-	-	-	-	-
2,4-Dimethylphenol	ug/kg	-	-	-	-	-	-	-
2,4-Dinitrophenol	ug/kg	-	-	-	-	-	-	-
2,4-Dinitrotoluene	ug/kg	-	-	-	-	-	-	-
2,6-Dinitrotoluene	ug/kg	-	-	-	-	-	-	-
2-Chloronaphthalene	ug/kg	-	-	-	-	-	-	-
2-Chlorophenol	ug/kg	-	-	-	-	-	-	-
2-Methylnaphthalene	ug/kg	-	-	-	-	-	-	-
2-Methylphenol	ug/kg	-	-	-	-	-	-	-
2-Nitroaniline	ug/kg	-	-	-	-	-	-	-
2-Nitrophenol	ug/kg	-	-	-	-	-	-	-
3&4-Methylphenol	ug/kg	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/kg	-	-	-	-	-	-	-
3-Nitroaniline	ug/kg	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	ug/kg	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	ug/kg	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	ug/kg	-	-	-	-	-	-	-
4-Chloroaniline	ug/kg	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	ug/kg	-	-	-	-	-	-	-
4-Methylphenol	ug/kg	-	-	-	-	-	-	-
4-Nitroaniline	ug/kg	-	-	-	-	-	-	-
4-Nitrophenol	ug/kg	-	-	-	-	-	-	-
Acenaphthene	ug/kg	-	-	-	-	-	-	-
Acenaphthylene	ug/kg	-	-	-	-	-	-	-
Acetophenone	ug/kg	-	-	-	-	-	-	-
Anthracene	ug/kg	-	-	-	-	-	-	-
Atrazine	ug/kg	-	-	-	-	-	-	-
Benzaldehyde	ug/kg	-	-	-	-	-	-	-
Benzo(a)anthracene	ug/kg	-	-	-	-	-	-	-
Benzo(a)pyrene	ug/kg	-	-	-	-	-	-	-
Benzo(b)fluoranthene	ug/kg	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	ug/kg	-	-	-	-	-	-	-
Benzo(k)fluoranthene	ug/kg	-	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	ug/kg	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	ug/kg	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	ug/kg	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	ug/kg	-	-	-	-	-	-	-
Caprolactam	ug/kg	-	-	-	-	-	-	-
Carbazole	ug/kg	-	-	-	-	-	-	-
Chrysene	ug/kg	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	ug/kg	-	-	-	-	-	-	-
Dibenzofuran	ug/kg	-	-	-	-	-	-	-
Diethyl phthalate	ug/kg	-	-	-	-	-	-	-
Dimethyl phthalate	ug/kg	-	-	-	-	-	-	-

Table 14

Summary of Analytical Results
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-97**	**SS-127**	**SS-128**	**SS-129**	**SS-174-AS**	**SS-175-AS**	**SS-176-AS**
Sample ID:		**SS-38443-122018-JC-097**	**SS-38443-122018-JC-127**	**SS-38443-122018-JC-128**	**SS-38443-122018-JC-129**	**SS-38443-122018-JC-174**	**SS-38443-112718-JC-175**	**SS-38443-112718-JC-176**
Sample Date:		**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**	**11/27/2018**	**11/27/2018**
Sample Depth:		**0.33-2.33 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0.33-0.83 ft BGS**
Parameters	**Units**							
Di-n-butylphthalate (DBP)	ug/kg	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	ug/kg	-	-	-	-	-	-	-
Fluoranthene	ug/kg	-	-	-	-	-	-	-
Fluorene	ug/kg	-	-	-	-	-	-	-
Hexachlorobenzene	ug/kg	-	-	-	-	-	-	-
Hexachlorobutadiene	ug/kg	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	ug/kg	-	-	-	-	-	-	-
Hexachloroethane	ug/kg	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/kg	-	-	-	-	-	-	-
Isophorone	ug/kg	-	-	-	-	-	-	-
Naphthalene	ug/kg	-	-	-	-	-	-	-
Nitrobenzene	ug/kg	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	ug/kg	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	ug/kg	-	-	-	-	-	-	-
Pentachlorophenol	ug/kg	-	-	-	-	-	-	-
Phenanthrene	ug/kg	-	-	-	-	-	-	-
Phenol	ug/kg	-	-	-	-	-	-	-
Pyrene	ug/kg	-	-	-	-	-	-	-
Metals								
Aluminum	mg/kg	-	-	-	-	-	-	-
Antimony	mg/kg	-	-	-	-	-	-	-
Arsenic	mg/kg	-	-	-	-	-	-	-
Barium	mg/kg	-	-	-	-	-	-	-
Beryllium	mg/kg	-	-	-	-	-	-	-
Cadmium	mg/kg	-	-	-	-	-	-	-
Calcium	mg/kg	-	-	-	-	-	-	-
Chromium	mg/kg	-	-	-	-	-	-	-
Chromium III (trivalent)	mg/kg	-	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-	-
Cobalt	mg/kg	-	-	-	-	-	-	-
Copper	mg/kg	-	-	-	-	-	-	-
Iron	mg/kg	-	-	-	-	-	-	-
Lead	mg/kg	-	-	-	-	-	-	-
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-
Magnesium	mg/kg	-	-	-	-	-	-	-

Table 14

Summary of Analytical Results
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-97**	**SS-127**	**SS-128**	**SS-129**	**SS-174-AS**	**SS-175-AS**	**SS-176-AS**
Sample ID:		**SS-38443-122018-JC-097**	**SS-38443-122018-JC-127**	**SS-38443-122018-JC-128**	**SS-38443-122018-JC-129**	**SS-38443-122018-JC-174**	**SS-38443-112718-JC-175**	**SS-38443-112718-JC-176**
Sample Date:		**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**	**11/27/2018**	**11/27/2018**
Sample Depth:		**0.33-2.33 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0.33-0.83 ft BGS**
Parameters	**Units**							
Manganese	mg/kg	-	-	-	-	-	-	-
Mercury	mg/kg	-	-	-	-	-	-	-
Nickel	mg/kg	-	-	-	-	-	-	-
Potassium	mg/kg	-	-	-	-	-	-	-
Selenium	mg/kg	-	-	-	-	-	-	-
Silver	mg/kg	-	-	-	-	-	-	-
Sodium	mg/kg	-	-	-	-	-	-	-
Thallium	mg/kg	-	-	-	-	-	-	-
Vanadium	mg/kg	-	-	-	-	-	-	-
Zinc	mg/kg	-	-	-	-	-	-	-
PCBs								
Aroclor-1016 (PCB-1016)	ug/kg	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	ug/kg	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	ug/kg	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	ug/kg	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/kg	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/kg	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/kg	-	-	-	-	-	-	-
Pesticides								
4,4'-DDD	ug/kg	-	-	-	-	-	-	-
4,4'-DDE	ug/kg	-	-	-	-	-	-	-
4,4'-DDT	ug/kg	-	-	-	-	-	-	-
Aldrin	ug/kg	-	-	-	-	-	-	-
alpha-BHC	ug/kg	-	-	-	-	-	-	-
alpha-Chlordane	ug/kg	-	-	-	-	-	-	-
beta-BHC	ug/kg	-	-	-	-	-	-	-
delta-BHC	ug/kg	-	-	-	-	-	-	-
Dieldrin	ug/kg	-	-	-	-	-	-	-
Endosulfan I	ug/kg	-	-	-	-	-	-	-
Endosulfan II	ug/kg	-	-	-	-	-	-	-
Endosulfan sulfate	ug/kg	-	-	-	-	-	-	-
Endrin	ug/kg	-	-	-	-	-	-	-
Endrin aldehyde	ug/kg	-	-	-	-	-	-	-
Endrin ketone	ug/kg	-	-	-	-	-	-	-
gamma-BHC (lindane)	ug/kg	-	-	-	-	-	-	-
gamma-Chlordane	ug/kg	-	-	-	-	-	-	-
Heptachlor	ug/kg	-	-	-	-	-	-	-
Heptachlor epoxide	ug/kg	-	-	-	-	-	-	-
Methoxychlor	ug/kg	-	-	-	-	-	-	-
Toxaphene	ug/kg	-	-	-	-	-	-	-
Herbicides								
2,4,5-T	ug/kg	17 U	17 U	15 U	15 U	-	-	-
2,4,5-TP (Silvex)	ug/kg	18 U	19 U	16 U	16 U	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	63 U	66 U	57 U	55 U	-	-	-

Table 14

Summary of Analytical Results
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-97**	**SS-127**	**SS-128**	**SS-129**	**SS-174-AS**	**SS-175-AS**	**SS-176-AS**
Sample ID:		**SS-38443-122018-JC-097**	**SS-38443-122018-JC-127**	**SS-38443-122018-JC-128**	**SS-38443-122018-JC-129**	**SS-38443-122018-JC-174**	**SS-38443-112718-JC-175**	**SS-38443-112718-JC-176**
Sample Date:		**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**	**11/27/2018**	**11/27/2018**
Sample Depth:		**0.33-2.33 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0.33-0.83 ft BGS**
Parameters	**Units**							
Dioxin/Furans								
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Asbestos								
Asbestos	%	-	-	-	-	ND	ND	-
Chrysotile asbestos	%	-	-	-	-	-	-	0.25 <
General Chemistry								
Cyanide (total)	mg/kg	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-

Notes
< - Less than reported value.
> - Greater than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 14

Summary of Analytical Results
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-177-AS**	**SS-178-AS**	**TP-8**	**TP-8**	**TP-9**	**TP-9**	**TP-10**	**TP-10**	**TT-1**
Sample ID:		**SS-38443-122018-JC-177**	**SS-38443-122018-JC-178**	**TP-8**	**S-38443-110917-BW-040**	**TP-9**	**S-38443-110917-BW-038**	**S-38443-110917-BW-036**	**TP-10**	**S-38443-092608-KMV-018**
Sample Date:		**12/20/2018**	**12/20/2018**	**11/9/2017**	**11/9/2017**	**11/9/2017**	**11/9/2017**	**11/9/2017**	**11/9/2017**	**9/26/2008**
Sample Depth:		**0-0.5 ft BGS**	**0-0.5 ft BGS**	**4-6 ft BGS**	**14-15 ft BGS**	**0-2 ft BGS**	**2-4 ft BGS**	**4-6 ft BGS**	**8-10 ft BGS**	**8 ft BGS**
Parameters	**Units**									
Volatiles										
1,1,1-Trichloroethane	ug/kg	-	-	-	0.29 U	-	0.34 U	0.52 U	-	4.5 U
1,1,2,2-Tetrachloroethane	ug/kg	-	-	-	0.33 UJ	-	0.39 UJ	R	-	4.5 U
1,1,2-Trichloroethane	ug/kg	-	-	-	0.49 U	-	0.58 U	R	-	4.5 U
1,1-Dichloroethane	ug/kg	-	-	-	0.41 U	-	0.49 U	0.75 U	-	4.5 U
1,1-Dichloroethene	ug/kg	-	-	-	0.68 U	-	0.80 U	1.2 U	-	4.5 U
1,2,4-Trichlorobenzene	ug/kg	-	-	-	0.30 U	-	0.36 U	R	-	4.5 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	-	-	-	0.85 U	-	1.0 U	R	-	9.1 U
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	-	-	-	0.44 U	-	0.52 U	R	-	4.5 U
1,2-Dichlorobenzene	ug/kg	-	-	-	0.28 U	-	0.33 U	R	-	4.5 U
1,2-Dichloroethane	ug/kg	-	-	-	0.36 U	-	0.43 U	0.66 U	-	4.5 U
1,2-Dichloroethene (total)	ug/kg	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/kg	-	-	-	0.39 U	-	0.46 U	0.71 U	-	4.5 U
1,3-Dichlorobenzene	ug/kg	-	-	-	0.36 U	-	0.43 U	R	-	4.5 U
1,4-Dichlorobenzene	ug/kg	-	-	-	0.44 U	-	0.52 U	R	-	4.5 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	-	-	-	1.6 U	-	1.9 U	2.9 U	-	18 U
2-Hexanone	ug/kg	-	-	-	0.73 U	-	0.86 U	R	-	18 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	-	-	-	1.1 U	-	1.3 U	R	-	18 U
Acetone	ug/kg	-	-	-	17 U	-	17 U	20 U	-	18 U
Benzene	ug/kg	-	-	-	0.40 U	-	0.48 U	0.73 U	-	4.5 U
Bromodichloromethane	ug/kg	-	-	-	0.41 U	-	0.49 U	0.75 U	-	4.5 U
Bromoform	ug/kg	-	-	-	0.50 U	-	0.60 U	R	-	4.5 U
Bromomethane (Methyl bromide)	ug/kg	-	-	-	0.74 UJ	-	0.88 UJ	1.3 UJ	-	4.5 U
Carbon disulfide	ug/kg	-	-	-	0.26 U	-	0.31 U	0.48 U	-	4.5 U
Carbon tetrachloride	ug/kg	-	-	-	0.31 U	-	0.37 U	0.57 U	-	4.5 U
Chlorobenzene	ug/kg	-	-	-	0.41 U	-	0.49 U	R	-	4.5 U
Chloroethane	ug/kg	-	-	-	0.48 U	-	0.57 U	0.87 U	-	4.5 U
Chloroform (Trichloromethane)	ug/kg	-	-	-	0.29 U	-	0.34 U	0.52 U	-	4.5 U
Chloromethane (Methyl chloride)	ug/kg	-	-	-	0.48 U	-	0.57 U	0.87 U	-	4.5 U
cis-1,2-Dichloroethene	ug/kg	-	-	-	0.35 U	-	0.42 U	0.64 U	-	4.5 U
cis-1,3-Dichloropropene	ug/kg	-	-	-	0.33 U	-	0.39 U	0.59 U	-	4.5 U
Cyclohexane	ug/kg	-	-	-	0.26 U	-	0.31 U	0.48 U	-	9.1 U
Dibromochloromethane	ug/kg	-	-	-	0.38 U	-	0.45 U	R	-	4.5 U
Dichlorodifluoromethane (CFC-12)	ug/kg	-	-	-	0.44 U	-	0.52 U	0.80 U	-	4.5 U
Ethylbenzene	ug/kg	-	-	-	0.34 U	-	0.40 U	R	-	4.5 U
Isopropyl benzene	ug/kg	-	-	-	0.25 U	-	0.30 U	R	-	4.5 U
Methyl acetate	ug/kg	-	-	-	1.5 U	-	1.7 U	2.7 U	-	9.1 U
Methyl cyclohexane	ug/kg	-	-	-	0.29 U	-	0.34 U	0.52 U	-	9.1 U
Methyl tert butyl ether (MTBE)	ug/kg	-	-	-	0.34 U	-	0.40 U	0.62 U	-	18 U
Methylene chloride	ug/kg	-	-	-	1.7 U	-	1.9 U	4.1 U	-	4.5 U
Styrene	ug/kg	-	-	-	0.34 U	-	0.40 U	R	-	4.5 U
Tetrachloroethene	ug/kg	-	-	-	0.47 U	-	0.55 U	4.5 J	-	4.5 U
Toluene	ug/kg	-	-	-	0.43 U	-	0.51 U	R	-	4.5 U
trans-1,2-Dichloroethene	ug/kg	-	-	-	0.48 U	-	0.57 U	0.87 U	-	4.5 U
trans-1,3-Dichloropropene	ug/kg	-	-	-	0.26 U	-	0.31 U	R	-	4.5 U
Trichloroethene	ug/kg	-	-	-	0.52 U	-	0.61 U	22 J	-	4.5 U
Trichlorofluoromethane (CFC-11)	ug/kg	-	-	-	0.30 U	-	0.36 U	0.55 U	-	4.5 U
Trifluorotrichloroethane (CFC-113)	ug/kg	-	-	-	0.62 U	-	0.73 U	1.1 U	-	4.5 U
Vinyl chloride	ug/kg	-	-	-	0.35 U	-	0.42 U	0.64 U	-	4.5 U
Xylenes (total)	ug/kg	-	-	-	0.50 U	-	0.60 U	R	-	9.1 U

Table 14

Summary of Analytical Results
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-177-AS**	**SS-178-AS**	**TP-8**	**TP-8**	**TP-9**	**TP-9**	**TP-10**	**TP-10**	**TT-1**
Sample ID:		**SS-38443-122018-JC-177**	**SS-38443-122018-JC-178**	**TP-8**	**S-38443-110917-BW-040**	**TP-9**	**S-38443-110917-BW-038**	**S-38443-110917-BW-036**	**TP-10**	**S-38443-092608-KMV-018**
Sample Date:		**12/20/2018**	**12/20/2018**	**11/9/2017**	**11/9/2017**	**11/9/2017**	**11/9/2017**	**11/9/2017**	**11/9/2017**	**9/26/2008**
Sample Depth:		**0-0.5 ft BGS**	**0-0.5 ft BGS**	**4-6 ft BGS**	**14-15 ft BGS**	**0-2 ft BGS**	**2-4 ft BGS**	**4-6 ft BGS**	**8-10 ft BGS**	**8 ft BGS**
Parameters	**Units**									
Semi-Volatiles										
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	-	-	-	11 U	-	56 U	13 U	-	110 U
2,4,5-Trichlorophenol	ug/kg	-	-	-	29 U	-	150 U	35 U	-	160 U
2,4,6-Trichlorophenol	ug/kg	-	-	-	10 U	-	52 U	13 U	-	160 U
2,4-Dichlorophenol	ug/kg	-	-	-	23 U	-	120 U	28 U	-	160 U
2,4-Dimethylphenol	ug/kg	-	-	-	23 U	-	120 U	28 U	-	160 U
2,4-Dinitrophenol	ug/kg	-	-	-	24 U	-	120 U	30 U	-	360 U
2,4-Dinitrotoluene	ug/kg	-	-	-	20 U	-	99 U	24 U	-	220 U
2,6-Dinitrotoluene	ug/kg	-	-	-	24 U	-	120 U	30 U	-	220 U
2-Chloronaphthalene	ug/kg	-	-	-	0.52 U	-	2.6 U	0.64 U	-	54 U
2-Chlorophenol	ug/kg	-	-	-	9.5 U	-	48 U	12 U	-	54 U
2-Methylnaphthalene	ug/kg	-	-	-	0.58 U	-	84	23	-	7.2 U
2-Methylphenol	ug/kg	-	-	-	13 U	-	64 U	16 U	-	220 U
2-Nitroaniline	ug/kg	-	-	-	11 U	-	53 U	13 U	-	220 U
2-Nitrophenol	ug/kg	-	-	-	9.6 U	-	49 U	12 U	-	54 U
3&4-Methylphenol	ug/kg	-	-	-	23 U	-	120 U	28 U	-	-
3,3'-Dichlorobenzidine	ug/kg	-	-	-	21 U	-	110 U	25 U	-	110 U
3-Nitroaniline	ug/kg	-	-	-	19 U	-	94 U	23 U	-	220 U
4,6-Dinitro-2-methylphenol	ug/kg	-	-	-	11 U	-	54 U	13 U	-	160 U
4-Bromophenyl phenyl ether	ug/kg	-	-	-	15 U	-	76 U	18 U	-	54 U
4-Chloro-3-methylphenol	ug/kg	-	-	-	24 U	-	120 U	30 U	-	160 U
4-Chloroaniline	ug/kg	-	-	-	20 U	-	99 U	24 U	-	160 U
4-Chlorophenyl phenyl ether	ug/kg	-	-	-	15 U	-	76 U	18 U	-	54 U
4-Methylphenol	ug/kg	-	-	-	-	-	-	-	-	220 U
4-Nitroaniline	ug/kg	-	-	-	30 U	-	150 U	37 U	-	220 U
4-Nitrophenol	ug/kg	-	-	-	20 U	-	99 U	24 U	-	360 U
Acenaphthene	ug/kg	-	-	-	0.88 U	-	320	14	-	7.2 U
Acenaphthylene	ug/kg	-	-	-	0.41 U	-	2.0 U	7.0 J	-	7.2 U
Acetophenone	ug/kg	-	-	-	11 U	-	54 U	16 J	-	110 U
Anthracene	ug/kg	-	-	-	4.8 J	-	870	73	-	7.2 U
Atrazine	ug/kg	-	-	-	11 U	-	53 U	13 U	-	220 U
Benzaldehyde	ug/kg	-	-	-	14 U	-	70 U	17 U	-	110 U
Benzo(a)anthracene	ug/kg	-	-	-	31	-	2000	370	-	15
Benzo(a)pyrene	ug/kg	-	-	-	29	-	1000	310	-	15
Benzo(b)fluoranthene	ug/kg	-	-	-	37	-	2100	560	-	21
Benzo(g,h,i)perylene	ug/kg	-	-	-	17	-	960	240	-	15
Benzo(k)fluoranthene	ug/kg	-	-	-	12	-	1000	260	-	7.2 U
Biphenyl (1,1-Biphenyl)	ug/kg	-	-	-	4.1 U	-	27 J	13 J	-	54 U
bis(2-Chloroethoxy)methane	ug/kg	-	-	-	26 U	-	130 U	31 U	-	110 U
bis(2-Chloroethyl)ether	ug/kg	-	-	-	2.3 U	-	12 U	2.8 U	-	110 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	-	-	-	29 J	-	110 U	94 J	-	54 U
Butyl benzylphthalate (BBP)	ug/kg	-	-	-	12 U	-	58 U	14 U	-	54 U
Caprolactam	ug/kg	-	-	-	43 U	-	220 U	52 U	-	360 U
Carbazole	ug/kg	-	-	-	31 U	-	420	47 J	-	54 U
Chrysene	ug/kg	-	-	-	29	-	2000	430	-	19
Dibenz(a,h)anthracene	ug/kg	-	-	-	0.77 U	-	3.9 U	68	-	7.2 U
Dibenzofuran	ug/kg	-	-	-	0.77 U	-	240 J	40 J	-	54 U
Diethyl phthalate	ug/kg	-	-	-	19 U	-	150 J	23 U	-	54 U
Dimethyl phthalate	ug/kg	-	-	-	20 U	-	99 U	24 U	-	54 U

Table 14

Summary of Analytical Results
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-177-AS**	**SS-178-AS**	**TP-8**	**TP-8**	**TP-9**	**TP-9**	**TP-10**	**TP-10**	**TT-1**
Sample ID:		**SS-38443-122018-JC-177**	**SS-38443-122018-JC-178**	**TP-8**	**S-38443-110917-BW-040**	**TP-9**	**S-38443-110917-BW-038**	**S-38443-110917-BW-036**	**TP-10**	**S-38443-092608-KMV-018**
Sample Date:		**12/20/2018**	**12/20/2018**	**11/9/2017**	**11/9/2017**	**11/9/2017**	**11/9/2017**	**11/9/2017**	**11/9/2017**	**9/26/2008**
Sample Depth:		**0-0.5 ft BGS**	**0-0.5 ft BGS**	**4-6 ft BGS**	**14-15 ft BGS**	**0-2 ft BGS**	**2-4 ft BGS**	**4-6 ft BGS**	**8-10 ft BGS**	**8 ft BGS**
Parameters	**Units**									
Di-n-butylphthalate (DBP)	ug/kg	-	-	-	17 U	-	88 U	21 U	-	54 U
Di-n-octyl phthalate (DnOP)	ug/kg	-	-	-	9.2 U	-	46 U	11 U	-	54 U
Fluoranthene	ug/kg	-	-	-	45	-	5100	720	-	24
Fluorene	ug/kg	-	-	-	0.62 U	-	320	16	-	7.2 U
Hexachlorobenzene	ug/kg	-	-	-	2.4 U	-	12 U	3.0 U	-	7.2 U
Hexachlorobutadiene	ug/kg	-	-	-	6.5 U	-	33 U	7.9 U	-	54 U
Hexachlorocyclopentadiene	ug/kg	-	-	-	9.4 U	-	47 U	11 U	-	360 U
Hexachloroethane	ug/kg	-	-	-	10 U	-	53 U	13 U	-	54 U
Indeno(1,2,3-cd)pyrene	ug/kg	-	-	-	18	-	810	220	-	7.2 U
Isophorone	ug/kg	-	-	-	15 U	-	76 U	18 U	-	54 U
Naphthalene	ug/kg	-	-	-	0.95 U	-	180	29	-	7.2 U
Nitrobenzene	ug/kg	-	-	-	2.6 U	-	13 U	3.1 U	-	110 U
N-Nitrosodi-n-propylamine	ug/kg	-	-	-	7.3 U	-	37 U	8.9 U	-	54 U
N-Nitrosodiphenylamine	ug/kg	-	-	-	24 U	-	120 U	30 U	-	54 U
Pentachlorophenol	ug/kg	-	-	-	11 U	-	53 U	13 U	-	160 U
Phenanthrene	ug/kg	-	-	-	15	-	3600	450	-	10
Phenol	ug/kg	-	-	-	8.5 U	-	43 U	10 U	-	54 U
Pyrene	ug/kg	-	-	-	43	-	4100	550	-	23
Metals										
Aluminum	mg/kg	-	-	-	5200 J	-	4700 J	7000 J	-	9680
Antimony	mg/kg	-	-	-	0.31 UJ	-	7.1 J	9.2 J	-	1.0 J
Arsenic	mg/kg	-	-	-	5.9 J	-	9.5 J	19 J	-	8.4 J
Barium	mg/kg	-	-	-	67 J	-	150 J	1600 J	-	148
Beryllium	mg/kg	-	-	-	0.37	-	0.82	3.1	-	0.40 J
Cadmium	mg/kg	-	-	-	0.22 J	-	1.7 J	8.8 J	-	0.26 J
Calcium	mg/kg	-	-	-	73000 J	-	64000 J	43000 J	-	35600
Chromium	mg/kg	-	-	-	8.3 J	-	10 J	62 J	-	12.8 J
Chromium III (trivalent)	mg/kg	-	-	-	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-	-	-	-
Cobalt	mg/kg	-	-	-	4.1 J	-	4.9 J	38 J	-	5.2 J
Copper	mg/kg	-	-	-	8.1 J	-	7100	870 J	-	14.2
Iron	mg/kg	-	-	-	12000 J	-	9900 J	24000 J	-	15600
Lead	mg/kg	-	-	-	7.8 J	-	130 J	1100	-	12.9
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-	-	-
Magnesium	mg/kg	-	-	-	28000	-	21000	13000	-	14200

Table 14

Summary of Analytical Results
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-177-AS**	**SS-178-AS**	**TP-8**	**TP-8**	**TP-9**	**TP-9**	**TP-10**	**TP-10**	**TT-1**
Sample ID:		**SS-38443-122018-JC-177**	**SS-38443-122018-JC-178**	**TP-8**	**S-38443-110917-BW-040**	**TP-9**	**S-38443-110917-BW-038**	**S-38443-110917-BW-036**	**TP-10**	**S-38443-092608-KMV-018**
Sample Date:		**12/20/2018**	**12/20/2018**	**11/9/2017**	**11/9/2017**	**11/9/2017**	**11/9/2017**	**11/9/2017**	**11/9/2017**	**9/26/2008**
Sample Depth:		**0-0.5 ft BGS**	**0-0.5 ft BGS**	**4-6 ft BGS**	**14-15 ft BGS**	**0-2 ft BGS**	**2-4 ft BGS**	**4-6 ft BGS**	**8-10 ft BGS**	**8 ft BGS**
Parameters	**Units**									
Manganese	mg/kg	-	-	-	420 J	-	330 J	550 J	-	489
Mercury	mg/kg	-	-	-	0.020 U	-	0.053 J	0.44	-	0.021 J
Nickel	mg/kg	-	-	-	9.6 J	-	29 J	94 J	-	12.9
Potassium	mg/kg	-	-	-	600 J	-	490 J	1100 J	-	876
Selenium	mg/kg	-	-	-	0.55 UJ	-	0.94 UJ	2.8 J	-	26.9 U
Silver	mg/kg	-	-	-	0.026 UJ	-	1.1 J	2.2 J	-	1.1 U
Sodium	mg/kg	-	-	-	100 U	-	120 U	440	-	539 U
Thallium	mg/kg	-	-	-	0.14 J	-	0.19 J	0.35 J	-	0.13
Vanadium	mg/kg	-	-	-	15 J	-	16 J	31 J	-	22.8
Zinc	mg/kg	-	-	-	35 J	-	520 J	2000 J	-	54.2 J
PCBs										
Aroclor-1016 (PCB-1016)	ug/kg	-	-	-	27 U	-	27 U	35 U	-	36 U
Aroclor-1221 (PCB-1221)	ug/kg	-	-	-	26 U	-	26 U	33 U	-	36 U
Aroclor-1232 (PCB-1232)	ug/kg	-	-	-	18 U	-	18 U	23 U	-	36 U
Aroclor-1242 (PCB-1242)	ug/kg	-	-	-	22 U	-	23 U	29 U	-	36 U
Aroclor-1248 (PCB-1248)	ug/kg	-	-	-	19 U	-	19 U	24 U	-	36 U
Aroclor-1254 (PCB-1254)	ug/kg	-	-	-	16 U	-	41 J	20 U	-	36 U
Aroclor-1260 (PCB-1260)	ug/kg	-	-	-	20 U	-	20 U	34 J	-	36 U
Pesticides										
4,4'-DDD	ug/kg	-	-	-	3.9 U	-	8.6 NJ	4.6 U	-	18 U
4,4'-DDE	ug/kg	-	-	-	1.4 U	-	2.8 U	1.7 U	-	18 U
4,4'-DDT	ug/kg	-	-	-	1.6 U	-	3.2 U	2.0 U	-	18 U
Aldrin	ug/kg	-	-	-	2.8 U	-	5.5 U	3.4 U	-	18 U
alpha-BHC	ug/kg	-	-	-	1.9 U	-	3.7 U	2.2 U	-	18 U
alpha-Chlordane	ug/kg	-	-	-	4.4 U	-	8.7 U	5.3 U	-	18 U
beta-BHC	ug/kg	-	-	-	4.6 U	-	9.0 U	5.4 U	-	18 U
delta-BHC	ug/kg	-	-	-	1.5 U	-	3.0 U	1.8 U	-	18 U
Dieldrin	ug/kg	-	-	-	1.1 U	-	2.1 U	1.3 U	-	18 U
Endosulfan I	ug/kg	-	-	-	1.5 U	-	3.0 U	1.8 U	-	18 U
Endosulfan II	ug/kg	-	-	-	2.1 U	-	4.1 U	2.5 U	-	18 U
Endosulfan sulfate	ug/kg	-	-	-	1.4 U	-	2.8 U	1.7 U	-	18 U
Endrin	ug/kg	-	-	-	1.6 U	-	3.2 U	2.0 U	-	18 U
Endrin aldehyde	ug/kg	-	-	-	2.1 U	-	5.1 J	2.5 U	-	18 U
Endrin ketone	ug/kg	-	-	-	1.3 U	-	2.5 U	1.5 U	-	18 U
gamma-BHC (lindane)	ug/kg	-	-	-	3.4 U	-	6.7 U	4.0 U	-	18 U
gamma-Chlordane	ug/kg	-	-	-	1.8 U	-	3.5 U	2.1 U	-	18 U
Heptachlor	ug/kg	-	-	-	0.91 U	-	1.8 U	1.1 U	-	18 U
Heptachlor epoxide	ug/kg	-	-	-	2.8 U	-	5.5 U	3.4 U	-	18 U
Methoxychlor	ug/kg	-	-	-	2.0 J	-	8.1 NJ	5.0 NJ	-	36 U
Toxaphene	ug/kg	-	-	-	43 U	-	85 U	52 U	-	720 U
Herbicides										
2,4,5-T	ug/kg	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/kg	-	-	-	-	-	-	-	-	22 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	-	-	-	-	-	-	-	-	86 UJ

Table 14

Summary of Analytical Results
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-177-AS**	**SS-178-AS**	**TP-8**	**TP-8**	**TP-9**	**TP-9**	**TP-10**	**TP-10**	**TT-1**
Sample ID:		**SS-38443-122018-JC-177**	**SS-38443-122018-JC-178**	**TP-8**	**S-38443-110917-BW-040**	**TP-9**	**S-38443-110917-BW-038**	**S-38443-110917-BW-036**	**TP-10**	**S-38443-092608-KMV-018**
Sample Date:		**12/20/2018**	**12/20/2018**	**11/9/2017**	**11/9/2017**	**11/9/2017**	**11/9/2017**	**11/9/2017**	**11/9/2017**	**9/26/2008**
Sample Depth:		**0-0.5 ft BGS**	**0-0.5 ft BGS**	**4-6 ft BGS**	**14-15 ft BGS**	**0-2 ft BGS**	**2-4 ft BGS**	**4-6 ft BGS**	**8-10 ft BGS**	**8 ft BGS**
Parameters	**Units**									
Dioxin/Furans										
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	0.77 U	-	7.9 U	56	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	23	-	35	340	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	0.86 U	-	11	250	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	1.8 U	-	9.4	110	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	0.083 J	-	0.80 J	12	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	0.27 J	-	2.3 J	170	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	0.11 J	-	0.38 J	8.9	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	0.46 J	-	1.1 J	53 J	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	0.20 J	-	2.0 J	17	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	0.10 U	-	0.12 U	0.98 U	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	0.35 J	-	1.1 J	25	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	0.032 U	-	0.87 J	36	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	0.037 U	-	1.2 U	10 J	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	0.19 J	-	0.90 J	75	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	0.15 J	-	1.2 J	89	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	0.24 J	-	1.5 J	57	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	0.078 J	-	0.10 J	4.0	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	1.7 J	-	23 J	320 J	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	3.8 J	-	21 J	220 J	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	8.2 J	-	19 J	620 J	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	3.2 J	-	14 J	260 J	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	17 J	-	27 J	1000 J	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	1.9 J	-	430 J	230 J	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	19 J	-	49 J	1900 J	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	0.63 J	-	6.5 J	230 J	-	-
Asbestos										
Asbestos	%	ND	ND	ND	-	ND	-	-	-	-
Chrysotile asbestos	%	-	-	-	-	-	-	-	1 <	-
General Chemistry										
Cyanide (total)	mg/kg	-	-	-	0.50 U	-	0.53 U	0.64 U	-	0.54 U
Total solids	%	-	-	-	-	-	-	-	-	92.8

Notes
< - Less than reported value.
> - Greater than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 14

Summary of Analytical Results
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-1**	**TT-2**	**TT-2**	**TT-3**	**TT-3**	**TT-4**	**TT-4**
Sample ID:		**S-38443-092608-KMV-019**	**S-38443-092608-KMV-020**	**S-38443-092608-KMV-021**	**S-38443-092908-KMV-022**	**S-38443-092908-KMV-023**	**S-38443-092908-KMV-024**	**S-38443-092908-KMV-025**
Sample Date:		**9/26/2008**	**9/26/2008**	**9/26/2008**	**9/29/2008**	**9/29/2008**	**9/29/2008**	**9/29/2008**
Sample Depth:		**15 ft BGS**	**9 ft BGS**	**13.5 ft BGS**	**5 ft BGS**	**10 ft BGS**	**3 ft BGS**	**5 ft BGS**
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/kg	4.6 U	5.7 U	4.0 U	16 UJ	7.9 U	8.1 U	6.1 U
1,1,2,2-Tetrachloroethane	ug/kg	4.6 U	5.7 U	4.0 U	R	7.9 UJ	8.1 UJ	6.1 U
1,1,2-Trichloroethane	ug/kg	4.6 U	5.7 U	4.0 U	16 UJ	7.9 UJ	8.1 UJ	6.1 U
1,1-Dichloroethane	ug/kg	4.6 U	5.7 U	4.0 U	16 UJ	7.9 U	8.1 U	6.1 U
1,1-Dichloroethene	ug/kg	4.6 U	5.7 U	4.0 U	16 UJ	7.9 U	8.1 U	6.1 U
1,2,4-Trichlorobenzene	ug/kg	4.6 U	5.7 U	4.0 U	R	7.9 UJ	8.1 UJ	6.1 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	9.3 U	11 U	7.9 U	R	16 UJ	16 UJ	12 U
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	4.6 U	5.7 U	4.0 U	16 UJ	7.9 UJ	8.1 UJ	6.1 U
1,2-Dichlorobenzene	ug/kg	4.6 U	5.7 U	4.0 U	R	7.9 UJ	8.1 UJ	6.1 U
1,2-Dichloroethane	ug/kg	4.6 U	5.7 U	4.0 U	16 UJ	7.9 U	8.1 U	6.1 U
1,2-Dichloroethene (total)	ug/kg	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/kg	4.6 U	5.7 U	4.0 U	16 UJ	7.9 U	8.1 U	6.1 U
1,3-Dichlorobenzene	ug/kg	4.6 U	5.7 U	4.0 U	R	7.9 UJ	8.1 UJ	6.1 U
1,4-Dichlorobenzene	ug/kg	4.6 U	5.7 U	4.0 U	R	1.2 J	8.1 UJ	6.1 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	19 U	23 U	16 U	64 UJ	32 U	32 U	25 U
2-Hexanone	ug/kg	19 U	23 U	16 U	64 UJ	32 UJ	32 UJ	25 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	19 U	23 U	16 U	64 UJ	32 U	32 U	25 U
Acetone	ug/kg	19 U	23 U	16 U	64 UJ	32 U	32 U	25 U
Benzene	ug/kg	4.6 U	5.7 U	4.0 U	16 UJ	7.9 U	8.1 U	6.1 U
Bromodichloromethane	ug/kg	4.6 U	5.7 U	4.0 U	16 UJ	7.9 U	8.1 U	6.1 U
Bromoform	ug/kg	4.6 U	5.7 U	4.0 U	16 UJ	7.9 UJ	8.1 UJ	6.1 U
Bromomethane (Methyl bromide)	ug/kg	4.6 U	5.7 U	4.0 U	16 UJ	7.9 U	8.1 U	6.1 U
Carbon disulfide	ug/kg	4.6 U	5.7 U	4.0 U	16 UJ	7.9 U	8.1 U	6.1 U
Carbon tetrachloride	ug/kg	4.6 U	5.7 U	4.0 U	16 UJ	7.9 U	8.1 U	6.1 U
Chlorobenzene	ug/kg	4.6 U	5.7 U	4.0 U	16 UJ	7.9 UJ	8.1 UJ	6.1 U
Chloroethane	ug/kg	4.6 U	5.7 U	4.0 U	16 UJ	7.9 U	8.1 U	6.1 U
Chloroform (Trichloromethane)	ug/kg	4.6 U	5.7 U	4.0 U	16 UJ	0.66 J	8.1 U	6.1 U
Chloromethane (Methyl chloride)	ug/kg	4.6 U	5.7 U	4.0 U	16 UJ	7.9 U	8.1 U	6.1 U
cis-1,2-Dichloroethene	ug/kg	4.6 U	5.7 U	4.0 U	16 UJ	7.9 U	8.1 U	6.1 U
cis-1,3-Dichloropropene	ug/kg	4.6 U	5.7 U	4.0 U	16 UJ	7.9 U	8.1 U	6.1 U
Cyclohexane	ug/kg	9.3 U	11 U	7.9 U	32 UJ	16 U	16 U	12 U
Dibromochloromethane	ug/kg	4.6 U	5.7 U	4.0 U	16 UJ	7.9 UJ	8.1 UJ	6.1 U
Dichlorodifluoromethane (CFC-12)	ug/kg	4.6 U	5.7 U	4.0 U	16 UJ	7.9 U	8.1 U	6.1 U
Ethylbenzene	ug/kg	4.6 U	5.7 U	4.0 U	16 UJ	7.9 UJ	8.1 UJ	6.1 U
Isopropyl benzene	ug/kg	4.6 U	5.7 U	4.0 U	16 UJ	7.9 UJ	8.1 UJ	6.1 U
Methyl acetate	ug/kg	9.3 U	11 U	7.9 U	32 UJ	16 U	16 U	12 U
Methyl cyclohexane	ug/kg	9.3 U	11 U	0.61 J	32 UJ	16 U	16 U	12 U
Methyl tert butyl ether (MTBE)	ug/kg	19 U	23 U	16 U	64 UJ	32 U	32 U	25 U
Methylene chloride	ug/kg	4.6 U	5.7 U	4.0 U	29 J	7.9 U	9.3 U	6.1 U
Styrene	ug/kg	4.6 U	5.7 U	4.0 U	16 UJ	7.9 UJ	8.1 UJ	6.1 U
Tetrachloroethene	ug/kg	4.6 U	5.7 U	4.0 U	16 UJ	7.9 UJ	8.1 UJ	6.1 U
Toluene	ug/kg	4.6 U	5.7 U	0.23 J	16 UJ	0.57 J	8.1 UJ	6.1 U
trans-1,2-Dichloroethene	ug/kg	4.6 U	5.7 U	4.0 U	16 UJ	7.9 U	8.1 U	6.1 U
trans-1,3-Dichloropropene	ug/kg	4.6 U	5.7 U	4.0 U	16 UJ	7.9 UJ	8.1 UJ	6.1 U
Trichloroethene	ug/kg	4.6 U	5.7 U	4.0 U	16 UJ	7.9 U	8.1 U	6.1 U
Trichlorofluoromethane (CFC-11)	ug/kg	4.6 U	5.7 U	4.0 U	16 UJ	7.9 U	8.1 U	6.1 U
Trifluorotrichloroethane (CFC-113)	ug/kg	4.6 U	5.7 U	4.0 U	16 UJ	7.9 U	8.1 U	6.1 U
Vinyl chloride	ug/kg	4.6 U	5.7 U	4.0 U	16 UJ	7.9 U	8.1 U	6.1 U
Xylenes (total)	ug/kg	1.2 J	11 U	0.98 J	32 UJ	16 UJ	16 UJ	12 U

Table 14

Summary of Analytical Results
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-1**	**TT-2**	**TT-2**	**TT-3**	**TT-3**	**TT-4**	**TT-4**
Sample ID:		**S-38443-092608-KMV-019**	**S-38443-092608-KMV-020**	**S-38443-092608-KMV-021**	**S-38443-092908-KMV-022**	**S-38443-092908-KMV-023**	**S-38443-092908-KMV-024**	**S-38443-092908-KMV-025**
Sample Date:		**9/26/2008**	**9/26/2008**	**9/26/2008**	**9/29/2008**	**9/29/2008**	**9/29/2008**	**9/29/2008**
Sample Depth:		**15 ft BGS**	**9 ft BGS**	**13.5 ft BGS**	**5 ft BGS**	**10 ft BGS**	**3 ft BGS**	**5 ft BGS**
Parameters	**Units**							
Semi-Volatiles								
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	100 U	110 U	110 U	450 U	110 U	1100 U	270 U
2,4,5-Trichlorophenol	ug/kg	160 U	170 U	160 U	670 U	160 U	1700 U	400 U
2,4,6-Trichlorophenol	ug/kg	160 U	170 U	160 U	670 U	160 U	1700 U	400 U
2,4-Dichlorophenol	ug/kg	160 U	170 U	160 U	670 U	160 U	1700 U	400 U
2,4-Dimethylphenol	ug/kg	160 U	170 U	160 U	670 U	160 U	1700 U	400 U
2,4-Dinitrophenol	ug/kg	340 U	370 U	350 U	1500 U	360 U	3700 UJ	890 U
2,4-Dinitrotoluene	ug/kg	210 U	220 U	210 U	900 U	220 U	2200 U	540 U
2,6-Dinitrotoluene	ug/kg	210 U	220 U	210 U	900 U	220 U	2200 U	540 U
2-Chloronaphthalene	ug/kg	52 U	56 U	54 U	220 U	54 U	560 U	130 U
2-Chlorophenol	ug/kg	52 U	56 U	54 U	220 U	54 U	560 U	130 U
2-Methylnaphthalene	ug/kg	6.9 U	7.5 U	7.2 U	38	25	75 U	22
2-Methylphenol	ug/kg	210 U	220 U	210 U	900 U	220 U	2200 U	540 U
2-Nitroaniline	ug/kg	210 U	220 U	210 U	900 U	220 U	2200 U	540 U
2-Nitrophenol	ug/kg	52 U	56 U	54 U	220 U	54 U	560 U	130 U
3&4-Methylphenol	ug/kg	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/kg	100 U	110 U	110 U	450 U	110 U	1100 U	270 U
3-Nitroaniline	ug/kg	210 U	220 U	210 U	900 U	220 U	2200 U	540 U
4,6-Dinitro-2-methylphenol	ug/kg	160 U	170 U	160 U	670 U	160 U	1700 U	400 U
4-Bromophenyl phenyl ether	ug/kg	52 U	56 U	54 U	220 U	54 U	560 U	130 U
4-Chloro-3-methylphenol	ug/kg	160 U	170 U	160 U	670 U	160 U	1700 U	400 U
4-Chloroaniline	ug/kg	160 U	170 U	160 U	670 U	160 U	1700 U	400 U
4-Chlorophenyl phenyl ether	ug/kg	52 U	56 U	54 U	220 U	54 U	560 U	130 U
4-Methylphenol	ug/kg	210 U	220 U	210 U	900 U	220 U	2200 U	540 U
4-Nitroaniline	ug/kg	210 U	220 U	210 U	900 U	220 U	2200 U	540 U
4-Nitrophenol	ug/kg	340 U	370 U	350 U	1500 U	360 U	3700 U	890 U
Acenaphthene	ug/kg	6.9 U	7.5 U	7.2 U	30 U	7.2 U	77	110
Acenaphthylene	ug/kg	6.9 U	7.5 U	7.2 U	30 U	9.5	100	18 U
Acetophenone	ug/kg	100 U	110 U	110 U	450 U	110 U	1100 U	270 U
Anthracene	ug/kg	6.9 U	7.5 U	7.2 U	30 U	22	620	470
Atrazine	ug/kg	210 U	220 U	210 U	900 U	220 U	2200 U	540 U
Benzaldehyde	ug/kg	100 U	110 U	110 U	450 U	110 U	1100 U	270 U
Benzo(a)anthracene	ug/kg	6.9 U	18	22	30 U	85	1700	790
Benzo(a)pyrene	ug/kg	6.9 U	16	22	30 U	88	800	540
Benzo(b)fluoranthene	ug/kg	7.1	20	28	36	140	2900	730
Benzo(g,h,i)perylene	ug/kg	6.9 U	13	16	30 U	91	950	330
Benzo(k)fluoranthene	ug/kg	6.9 U	7.5 U	15	30 U	40	870	320
Biphenyl (1,1-Biphenyl)	ug/kg	52 U	56 U	54 U	220 U	54 U	560 U	130 U
bis(2-Chloroethoxy)methane	ug/kg	100 U	110 U	110 U	450 U	110 U	1100 U	270 U
bis(2-Chloroethyl)ether	ug/kg	100 U	110 U	110 U	450 U	110 U	1100 U	270 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	52 U	25 J	54 U	160 J	76	560 U	130 U
Butyl benzylphthalate (BBP)	ug/kg	52 U	56 U	54 U	690	630	1100	130 U
Caprolactam	ug/kg	340 U	370 U	350 U	1500 U	360 U	3700 U	890 U
Carbazole	ug/kg	52 U	56 U	54 U	220 U	54 U	210 J	260
Chrysene	ug/kg	6.9 U	19	27	34	120	2800	760
Dibenz(a,h)anthracene	ug/kg	6.9 U	7.5 U	7.2 U	30 U	15	260	68
Dibenzofuran	ug/kg	52 U	56 U	54 U	220 U	54 U	560 U	80 J
Diethyl phthalate	ug/kg	52 U	56 U	54 U	220 U	54 U	560 U	130 U
Dimethyl phthalate	ug/kg	52 U	56 U	54 U	220 U	54 U	560 U	130 U

Table 14

Summary of Analytical Results
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-1**	**TT-2**	**TT-2**	**TT-3**	**TT-3**	**TT-4**	**TT-4**
Sample ID:		**S-38443-092608-KMV-019**	**S-38443-092608-KMV-020**	**S-38443-092608-KMV-021**	**S-38443-092908-KMV-022**	**S-38443-092908-KMV-023**	**S-38443-092908-KMV-024**	**S-38443-092908-KMV-025**
Sample Date:		**9/26/2008**	**9/26/2008**	**9/26/2008**	**9/29/2008**	**9/29/2008**	**9/29/2008**	**9/29/2008**
Sample Depth:		**15 ft BGS**	**9 ft BGS**	**13.5 ft BGS**	**5 ft BGS**	**10 ft BGS**	**3 ft BGS**	**5 ft BGS**
Parameters	**Units**							
Di-n-butylphthalate (DBP)	ug/kg	52 U	56 U	54 U	220 U	100	560	130 U
Di-n-octyl phthalate (DnOP)	ug/kg	52 U	56 U	54 U	220 U	54 U	560 U	130 U
Fluoranthene	ug/kg	8.9	28	43	61	190	3000	2200
Fluorene	ug/kg	6.9 U	7.5 U	7.2 U	30 U	7.3	90	140
Hexachlorobenzene	ug/kg	6.9 U	7.5 U	7.2 U	30 U	7.2 U	75 U	18 U
Hexachlorobutadiene	ug/kg	52 U	56 U	54 U	220 U	54 U	560 U	130 U
Hexachlorocyclopentadiene	ug/kg	340 U	370 U	R	1500 U	360 U	3700 U	890 U
Hexachloroethane	ug/kg	52 U	56 U	54 U	220 U	54 U	560 U	130 U
Indeno(1,2,3-cd)pyrene	ug/kg	6.9 U	7.5 U	14	30 U	54	800	270
Isophorone	ug/kg	52 U	56 U	54 U	220 U	54 U	560 U	130 U
Naphthalene	ug/kg	6.9 U	7.5 U	7.2 U	30 U	19	75 U	43
Nitrobenzene	ug/kg	100 U	110 U	110 U	450 U	110 U	1100 U	270 U
N-Nitrosodi-n-propylamine	ug/kg	52 U	56 U	54 U	220 U	54 U	560 U	130 U
N-Nitrosodiphenylamine	ug/kg	52 U	56 U	54 U	220 U	54 U	560 U	130 U
Pentachlorophenol	ug/kg	160 U	170 U	160 U	670 U	110 J	1700 U	400 U
Phenanthrene	ug/kg	6.9 U	7.9	20	39	100	970	1900
Phenol	ug/kg	52 U	56 U	54 U	220 U	54 U	560 U	130 U
Pyrene	ug/kg	7.9	30	39	75	160	2400	1600
Metals								
Aluminum	mg/kg	2920	8230	6660	5080	4190	6760	4300
Antimony	mg/kg	12.8 J	0.51 J	1.6 J	4.0 J	1.5 J	199 J	8.2 J
Arsenic	mg/kg	14.1 J	5.1 J	7.3 J	22.7	11.9	57.3	17.3
Barium	mg/kg	342	61.5	84.2	535	224	1030	139
Beryllium	mg/kg	0.52 U	0.30 J	0.24 J	3.9 J	0.89 J	1.5 J	0.55 J
Cadmium	mg/kg	0.14 J	0.27 J	0.31 J	1.6	15.1	30.5	1.4
Calcium	mg/kg	110000	22700	51600	11000 J	30300 J	39200 J	217000 J
Chromium	mg/kg	5.6 J	13.4 J	11.2 J	11.0	19.5	74.0	12.9
Chromium III (trivalent)	mg/kg	-	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-	-
Cobalt	mg/kg	2.1 J	6.9 J	4.6 J	8.1	4.8 J	14.7	4.8 J
Copper	mg/kg	19.1	13.8	15.4	186	181	43400	69.1
Iron	mg/kg	6340	15300	14300	8230	10500	82400	8180
Lead	mg/kg	5.4 J	15.3	11.4	116 J	426 J	3970 J	72.1 J
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-
Magnesium	mg/kg	38300	14700	22900	1750	13600	20800	9140

Table 14

Summary of Analytical Results
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-1**	**TT-2**	**TT-2**	**TT-3**	**TT-3**	**TT-4**	**TT-4**
Sample ID:		**S-38443-092608-KMV-019**	**S-38443-092608-KMV-020**	**S-38443-092608-KMV-021**	**S-38443-092908-KMV-022**	**S-38443-092908-KMV-023**	**S-38443-092908-KMV-024**	**S-38443-092908-KMV-025**
Sample Date:		**9/26/2008**	**9/26/2008**	**9/26/2008**	**9/29/2008**	**9/29/2008**	**9/29/2008**	**9/29/2008**
Sample Depth:		**15 ft BGS**	**9 ft BGS**	**13.5 ft BGS**	**5 ft BGS**	**10 ft BGS**	**3 ft BGS**	**5 ft BGS**
Parameters	**Units**							
Manganese	mg/kg	241	437	416	80.3 J	184 J	533 J	165 J
Mercury	mg/kg	0.33	0.043 J	0.016 J	0.16	0.17	0.84	0.089 J
Nickel	mg/kg	6.4	16.3	11.8	17.9	19.1	129	13.6
Potassium	mg/kg	641	733	874	800 J	503 J	1020 J	637 J
Selenium	mg/kg	26.0 U	28.1 U	26.8 U	1.7 J	0.85 J	20.1 J	0.90 J
Silver	mg/kg	1.0 U	1.1 U	1.1 U	0.34 J	0.22 J	3.1	0.37 J
Sodium	mg/kg	520 U	562 U	536 U	135 J	99.1 J	592	112 J
Thallium	mg/kg	0.10 U	0.11 U	0.12	0.63	0.29	5.6 U	0.41
Vanadium	mg/kg	8.6	23.1	18.7	28.2 J	15.2 J	35.7 J	17.2 J
Zinc	mg/kg	23.0 J	54.8 J	48.1 J	165 J	230 J	3070 J	115 J
PCBs								
Aroclor-1016 (PCB-1016)	ug/kg	34 U	37 U	35 U	36 U	36 U	37 U	35 U
Aroclor-1221 (PCB-1221)	ug/kg	34 U	37 U	35 U	36 U	36 U	37 U	35 U
Aroclor-1232 (PCB-1232)	ug/kg	34 U	37 U	35 U	36 U	36 U	37 U	35 U
Aroclor-1242 (PCB-1242)	ug/kg	34 U	37 U	35 U	36 U	36 U	37 U	35 U
Aroclor-1248 (PCB-1248)	ug/kg	34 U	37 U	35 U	36 U	36 U	37 U	35 U
Aroclor-1254 (PCB-1254)	ug/kg	34 U	37 U	35 U	36 U	36 U	37 U	52
Aroclor-1260 (PCB-1260)	ug/kg	34 U	37 U	35 U	280	230	520 J	35 U
Pesticides								
4,4'-DDD	ug/kg	18 U	9.6 U	9.1 U	37 UJ	92 U	190 U	91 U
4,4'-DDE	ug/kg	18 U	9.6 U	9.1 U	10 J	40 J	51 J	24 J
4,4'-DDT	ug/kg	18 U	9.6 U	9.1 U	37 UJ	36 J	820	43 J
Aldrin	ug/kg	18 U	9.6 U	9.1 U	37 U	92 U	190 U	91 U
alpha-BHC	ug/kg	18 U	9.6 U	9.1 U	37 U	92 U	190 U	91 U
alpha-Chlordane	ug/kg	18 U	9.6 U	9.1 U	37 U	92 U	190 U	91 U
beta-BHC	ug/kg	18 U	9.6 U	9.1 U	37 U	92 U	190 U	91 U
delta-BHC	ug/kg	18 U	9.6 U	9.1 U	37 U	92 U	190 U	91 U
Dieldrin	ug/kg	18 U	9.6 U	9.1 U	20 J	92 U	65 J	91 U
Endosulfan I	ug/kg	18 U	9.6 U	9.1 U	37 U	92 U	190 U	91 U
Endosulfan II	ug/kg	18 U	9.6 U	9.1 U	37 U	92 U	190 U	91 U
Endosulfan sulfate	ug/kg	18 U	9.6 U	9.1 U	37 U	92 U	190 U	91 U
Endrin	ug/kg	18 U	9.6 U	9.1 U	37 U	92 U	190 U	91 U
Endrin aldehyde	ug/kg	18 U	9.6 U	9.1 U	37 U	92 U	190 U	91 U
Endrin ketone	ug/kg	18 U	9.6 U	9.1 U	37 U	92 U	89 J	91 U
gamma-BHC (lindane)	ug/kg	18 U	9.6 U	9.1 U	37 U	92 U	190 U	91 U
gamma-Chlordane	ug/kg	18 U	9.6 U	9.1 U	37 U	92 U	190 U	91 U
Heptachlor	ug/kg	18 U	9.6 U	9.1 U	37 U	92 U	190 U	91 U
Heptachlor epoxide	ug/kg	18 U	9.6 U	9.1 U	37 U	92 U	190 U	91 U
Methoxychlor	ug/kg	34 U	19 U	18 U	72 UJ	180 U	370 U	180 U
Toxaphene	ug/kg	700 U	380 U	360 U	1500 UJ	3600 U	7500 U	3600 U
Herbicides								
2,4,5-T	ug/kg	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/kg	21 U	22 U	21 U	4.6 J	22 U	22 U	22 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	83 UJ	90 UJ	86 UJ	87 U	86 U	90 U	86 U

Table 14

Summary of Analytical Results
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-1**	**TT-2**	**TT-2**	**TT-3**	**TT-3**	**TT-4**	**TT-4**
Sample ID:		**S-38443-092608-KMV-019**	**S-38443-092608-KMV-020**	**S-38443-092608-KMV-021**	**S-38443-092908-KMV-022**	**S-38443-092908-KMV-023**	**S-38443-092908-KMV-024**	**S-38443-092908-KMV-025**
Sample Date:		**9/26/2008**	**9/26/2008**	**9/26/2008**	**9/29/2008**	**9/29/2008**	**9/29/2008**	**9/29/2008**
Sample Depth:		**15 ft BGS**	**9 ft BGS**	**13.5 ft BGS**	**5 ft BGS**	**10 ft BGS**	**3 ft BGS**	**5 ft BGS**
Parameters	**Units**							
Dioxin/Furans								
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Asbestos								
Asbestos	%	-	-	-	-	-	-	-
Chrysotile asbestos	%	-	-	-	-	-	-	-
General Chemistry								
Cyanide (total)	mg/kg	0.52 U	0.56 U	0.54 U	0.46 J	0.37 J	0.90	2.1
Total solids	%	96.1	89.0	93.3	92.2	92.6	88.9	93.0

Notes
< - Less than reported value.
> - Greater than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 14

Summary of Analytical Results
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-4**	**TT-4**	**TT-4**	**TT-5**	**TT-5**	**TT-5**	**TT-5**
Sample ID:		**S-38443-092908-KMV-026**	**S-38443-092908-KMV-027**	**S-38443-092908-KMV-028**	**S-38443-093008-KMV-029**	**S-38443-093008-KMV-030**	**S-38443-093008-KMV-031**	**S-38443-093008-KMV-031-D**
Sample Date:		**9/29/2008**	**9/29/2008**	**9/29/2008**	**9/30/2008**	**9/30/2008**	**9/30/2008**	**9/30/2008**
Sample Depth:		**9 ft BGS**	**12 ft BGS**	**20 ft BGS**	**3 ft BGS**	**7 ft BGS**	**14 ft BGS**	**14 ft BGS**
								Duplicate
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/kg	4.8 U	4.8 U	5.3 U	6.4 U	9.2 U	9.2 U	7.7 U
1,1,2,2-Tetrachloroethane	ug/kg	4.8 U	4.8 U	5.3 U	6.4 U	9.2 UJ	9.2 UJ	7.7 UJ
1,1,2-Trichloroethane	ug/kg	4.8 U	4.8 U	5.3 U	6.4 U	9.2 U	9.2 UJ	7.7 U
1,1-Dichloroethane	ug/kg	4.8 U	4.8 U	5.3 U	6.4 U	9.2 U	9.2 U	7.7 U
1,1-Dichloroethene	ug/kg	4.8 U	4.8 U	5.3 U	6.4 U	9.2 U	9.2 U	7.7 U
1,2,4-Trichlorobenzene	ug/kg	4.8 U	4.8 U	5.3 U	6.4 U	9.2 UJ	9.2 UJ	7.7 UJ
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	9.7 U	9.7 U	11 U	13 U	18 UJ	18 UJ	15 UJ
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	4.8 U	4.8 U	5.3 U	6.4 U	9.2 U	9.2 UJ	7.7 U
1,2-Dichlorobenzene	ug/kg	4.8 U	4.8 U	5.3 U	6.4 U	9.2 UJ	9.2 UJ	7.7 UJ
1,2-Dichloroethane	ug/kg	4.8 U	4.8 U	5.3 U	6.4 U	9.2 U	9.2 U	7.7 U
1,2-Dichloroethene (total)	ug/kg	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/kg	4.8 U	4.8 U	5.3 U	6.4 U	9.2 U	9.2 U	7.7 U
1,3-Dichlorobenzene	ug/kg	4.8 U	4.8 U	5.3 U	6.4 U	9.2 UJ	9.2 UJ	7.7 UJ
1,4-Dichlorobenzene	ug/kg	4.8 U	4.8 U	5.3 U	6.4 U	9.2 UJ	9.2 UJ	7.7 UJ
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	19 U	19 U	21 U	25 U	37 U	37 U	31 U
2-Hexanone	ug/kg	19 U	19 U	21 U	25 U	37 U	37 UJ	31 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	19 U	19 U	21 U	25 U	37 U	37 U	31 U
Acetone	ug/kg	19 U	19 U	21 U	25 U	37 U	37 U	31 U
Benzene	ug/kg	4.8 U	4.8 U	5.3 U	6.4 U	9.2 U	9.2 U	7.7 U
Bromodichloromethane	ug/kg	4.8 U	4.8 U	5.3 U	6.4 U	9.2 U	9.2 U	7.7 U
Bromoform	ug/kg	4.8 U	4.8 U	5.3 U	6.4 U	9.2 U	9.2 UJ	7.7 U
Bromomethane (Methyl bromide)	ug/kg	4.8 U	4.8 U	5.3 U	6.4 U	9.2 U	9.2 U	7.7 U
Carbon disulfide	ug/kg	4.8 U	4.8 U	5.3 U	6.4 U	9.2 U	9.2 U	7.7 U
Carbon tetrachloride	ug/kg	4.8 U	4.8 U	5.3 U	6.4 U	9.2 U	9.2 U	7.7 U
Chlorobenzene	ug/kg	4.8 U	4.8 U	5.3 U	6.4 U	9.2 U	9.2 UJ	7.7 U
Chloroethane	ug/kg	4.8 U	4.8 U	5.3 U	6.4 U	9.2 U	9.2 U	7.7 U
Chloroform (Trichloromethane)	ug/kg	4.8 U	4.8 U	5.3 U	6.4 U	9.2 U	9.2 U	7.7 U
Chloromethane (Methyl chloride)	ug/kg	4.8 U	4.8 U	5.3 U	6.4 U	9.2 U	9.2 U	7.7 U
cis-1,2-Dichloroethene	ug/kg	4.8 U	4.8 U	5.3 U	6.4 U	9.2 U	9.2 U	7.7 U
cis-1,3-Dichloropropene	ug/kg	4.8 U	4.8 U	5.3 U	6.4 U	9.2 U	9.2 U	7.7 U
Cyclohexane	ug/kg	9.7 U	9.7 U	11 U	13 U	18 U	18 U	15 U
Dibromochloromethane	ug/kg	4.8 U	4.8 U	5.3 U	6.4 U	9.2 U	9.2 UJ	7.7 U
Dichlorodifluoromethane (CFC-12)	ug/kg	4.8 U	4.8 U	5.3 U	6.4 U	9.2 U	9.2 U	7.7 U
Ethylbenzene	ug/kg	4.8 U	4.8 U	5.3 U	6.4 U	9.2 U	9.2 UJ	7.7 U
Isopropyl benzene	ug/kg	4.8 U	4.8 U	5.3 U	6.4 U	9.2 U	9.2 UJ	7.7 U
Methyl acetate	ug/kg	9.7 U	9.7 U	11 U	13 U	18 U	18 U	15 U
Methyl cyclohexane	ug/kg	9.7 U	9.7 U	11 U	13 U	18 U	18 U	15 U
Methyl tert butyl ether (MTBE)	ug/kg	19 U	19 U	21 U	25 U	37 U	37 U	31 U
Methylene chloride	ug/kg	4.8 U	4.8 U	5.3 U	6.4 U	9.2 U	9.2 U	7.7 U
Styrene	ug/kg	4.8 U	4.8 U	5.3 U	6.4 U	9.2 U	9.2 UJ	7.7 U
Tetrachloroethene	ug/kg	4.8 U	4.8 U	5.3 U	6.4 U	4.5 J	20 J	1.9 J
Toluene	ug/kg	4.8 U	4.8 U	5.3 U	6.4 U	9.2 U	9.2 UJ	7.7 U
trans-1,2-Dichloroethene	ug/kg	4.8 U	4.8 U	5.3 U	6.4 U	9.2 U	9.2 U	7.7 U
trans-1,3-Dichloropropene	ug/kg	4.8 U	4.8 U	5.3 U	6.4 U	9.2 U	9.2 UJ	7.7 U
Trichloroethene	ug/kg	4.8 U	4.8 U	5.3 U	1.0 J	4.9 J	9.7	3.3 J
Trichlorofluoromethane (CFC-11)	ug/kg	4.8 U	4.8 U	5.3 U	6.4 U	9.2 U	9.2 U	7.7 U
Trifluorotrichloroethane (CFC-113)	ug/kg	4.8 U	4.8 U	5.3 U	6.4 U	9.2 U	9.2 U	7.7 U
Vinyl chloride	ug/kg	4.8 U	4.8 U	5.3 U	6.4 U	9.2 U	9.2 U	7.7 U
Xylenes (total)	ug/kg	9.7 U	9.7 U	11 U	13 U	18 U	18 UJ	15 U

Table 14

Summary of Analytical Results
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-4**	**TT-4**	**TT-4**	**TT-5**	**TT-5**	**TT-5**	**TT-5**
Sample ID:		**S-38443-092908-KMV-026**	**S-38443-092908-KMV-027**	**S-38443-092908-KMV-028**	**S-38443-093008-KMV-029**	**S-38443-093008-KMV-030**	**S-38443-093008-KMV-031**	**S-38443-093008-KMV-031-D**
Sample Date:		**9/29/2008**	**9/29/2008**	**9/29/2008**	**9/30/2008**	**9/30/2008**	**9/30/2008**	**9/30/2008**
Sample Depth:		**9 ft BGS**	**12 ft BGS**	**20 ft BGS**	**3 ft BGS**	**7 ft BGS**	**14 ft BGS**	**14 ft BGS**
								Duplicate
Parameters	**Units**							
Semi-Volatiles								
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	100 U	110 U	110 U	1100 U	2600 U	1400 U	2200 U
2,4,5-Trichlorophenol	ug/kg	160 U	170 U	160 U	1600 U	4000 U	2100 U	3300 U
2,4,6-Trichlorophenol	ug/kg	160 U	170 U	160 U	1600 U	4000 U	2100 U	3300 U
2,4-Dichlorophenol	ug/kg	160 U	170 U	160 U	1600 U	4000 U	2100 U	3300 U
2,4-Dimethylphenol	ug/kg	160 U	170 U	160 U	1600 U	4000 U	2100 U	3300 U
2,4-Dinitrophenol	ug/kg	340 U	370 U	360 U	3500 U	8700 U	4600 U	7400 U
2,4-Dinitrotoluene	ug/kg	210 U	220 U	220 U	2100 U	5300 U	2800 U	4500 U
2,6-Dinitrotoluene	ug/kg	210 U	220 U	220 U	2100 U	5300 U	2800 U	4500 U
2-Chloronaphthalene	ug/kg	52 U	56 U	54 U	530 U	1300 U	690 U	1100 U
2-Chlorophenol	ug/kg	52 U	56 U	54 U	530 U	1300 U	690 U	1100 U
2-Methylnaphthalene	ug/kg	7.0 U	7.5 U	7.2 U	81	180 U	210	170
2-Methylphenol	ug/kg	210 U	220 U	220 U	2100 U	5300 U	2800 U	4500 U
2-Nitroaniline	ug/kg	210 U	220 U	220 U	2100 U	5300 U	2800 U	4500 U
2-Nitrophenol	ug/kg	52 U	56 U	54 U	530 U	1300 U	690 U	1100 U
3&4-Methylphenol	ug/kg	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/kg	100 U	110 U	110 U	1100 U	2600 U	1400 U	2200 U
3-Nitroaniline	ug/kg	210 U	220 U	220 U	2100 U	5300 U	2800 U	4500 U
4,6-Dinitro-2-methylphenol	ug/kg	160 U	170 U	160 U	1600 U	4000 U	2100 U	3300 U
4-Bromophenyl phenyl ether	ug/kg	52 U	56 U	54 U	530 U	1300 U	690 U	1100 U
4-Chloro-3-methylphenol	ug/kg	160 U	170 U	160 U	1600 U	4000 U	2100 U	3300 U
4-Chloroaniline	ug/kg	160 U	170 U	160 U	1600 U	4000 U	2100 U	3300 U
4-Chlorophenyl phenyl ether	ug/kg	52 U	56 U	54 U	530 U	1300 U	690 U	1100 U
4-Methylphenol	ug/kg	210 U	220 U	220 U	2100 U	5300 U	2800 U	4500 U
4-Nitroaniline	ug/kg	210 U	220 U	220 U	2100 U	5300 U	2800 U	4500 U
4-Nitrophenol	ug/kg	340 U	370 U	360 U	3500 U	8700 U	4600 U	7400 U
Acenaphthene	ug/kg	7.0 U	7.5 U	7.2 U	140	180 U	1500	1400
Acenaphthylene	ug/kg	7.0 U	7.5 U	7.2 U	180	180 U	92 U	150 U
Acetophenone	ug/kg	100 U	110 U	110 U	1100 U	2600 U	1400 U	2200 U
Anthracene	ug/kg	7.0 U	7.5 U	8.3	800	180 U	3300	3200
Atrazine	ug/kg	210 U	220 U	220 U	2100 U	5300 U	2800 U	4500 U
Benzaldehyde	ug/kg	100 U	110 U	110 U	1100 U	2600 U	1400 U	2200 U
Benzo(a)anthracene	ug/kg	8.0	27	24	6300	280	7100	6300
Benzo(a)pyrene	ug/kg	7.4	23	22	6000	270	4400	4400
Benzo(b)fluoranthene	ug/kg	12	61	33	8700	390	6000	5800
Benzo(g,h,i)perylene	ug/kg	7.0 U	31	17	3600	240	1800	1900
Benzo(k)fluoranthene	ug/kg	7.0 U	19	12	2900	180 U	2800	2600
Biphenyl (1,1-Biphenyl)	ug/kg	52 U	56 U	54 U	530 U	1300 U	690 U	1100 U
bis(2-Chloroethoxy)methane	ug/kg	100 U	110 U	110 U	1100 U	2600 U	1400 U	2200 U
bis(2-Chloroethyl)ether	ug/kg	100 U	110 U	110 U	1100 U	2600 U	1400 U	2200 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	52 U	56 U	54 U	530 U	1300 U	690 U	1100 U
Butyl benzylphthalate (BBP)	ug/kg	52 U	240	54 U	310 J	1300 U	690 U	1100 U
Caprolactam	ug/kg	340 U	370 U	360 U	3500 U	8700 U	4600 U	7400 U
Carbazole	ug/kg	52 U	56 U	54 U	530 U	1300 U	1700	1500
Chrysene	ug/kg	8.1	47	26	5700	240	6200	5900
Dibenz(a,h)anthracene	ug/kg	7.0 U	7.5 U	7.2 U	1200	180 U	590	600
Dibenzofuran	ug/kg	52 U	56 U	54 U	530 U	1300 U	890	770 J
Diethyl phthalate	ug/kg	52 U	56 U	54 U	530 U	1300 U	690 U	1100 U
Dimethyl phthalate	ug/kg	52 U	56 U	54 U	530 U	1300 U	690 U	1100 U

Table 14

Summary of Analytical Results
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-4**	**TT-4**	**TT-4**	**TT-5**	**TT-5**	**TT-5**	**TT-5**
Sample ID:		**S-38443-092908-KMV-026**	**S-38443-092908-KMV-027**	**S-38443-092908-KMV-028**	**S-38443-093008-KMV-029**	**S-38443-093008-KMV-030**	**S-38443-093008-KMV-031**	**S-38443-093008-KMV-031-D**
Sample Date:		**9/29/2008**	**9/29/2008**	**9/29/2008**	**9/30/2008**	**9/30/2008**	**9/30/2008**	**9/30/2008**
Sample Depth:		**9 ft BGS**	**12 ft BGS**	**20 ft BGS**	**3 ft BGS**	**7 ft BGS**	**14 ft BGS**	**14 ft BGS**
								Duplicate
Parameters	**Units**							
Di-n-butylphthalate (DBP)	ug/kg	52 U	47 J	54 U	530 U	1300 U	690 U	1100 U
Di-n-octyl phthalate (DnOP)	ug/kg	52 U	56 U	54 U	530 U	1300 U	690 U	1100 U
Fluoranthene	ug/kg	14	39	47	10000	320	16000	15000
Fluorene	ug/kg	7.0 U	7.5 U	7.2 U	94	180 U	1500	1300
Hexachlorobenzene	ug/kg	7.0 U	7.5 U	7.2 U	70 U	180 U	92 U	150 U
Hexachlorobutadiene	ug/kg	52 U	56 U	54 U	530 U	1300 U	690 U	1100 U
Hexachlorocyclopentadiene	ug/kg	340 U	370 U	360 U	3500 U	8700 U	4600 U	7400 U
Hexachloroethane	ug/kg	52 U	56 U	54 U	530 U	1300 U	690 U	1100 U
Indeno(1,2,3-cd)pyrene	ug/kg	7.0 U	24	15	3500	220	2000	2000
Isophorone	ug/kg	52 U	56 U	54 U	530 U	1300 U	690 U	1100 U
Naphthalene	ug/kg	7.0 U	7.5 U	13	70 U	180 U	380	310
Nitrobenzene	ug/kg	100 U	110 U	110 U	1100 U	2600 U	1400 U	2200 U
N-Nitrosodi-n-propylamine	ug/kg	52 U	56 U	54 U	530 U	1300 U	690 U	1100 U
N-Nitrosodiphenylamine	ug/kg	52 U	56 U	54 U	530 U	1300 U	690 U	1100 U
Pentachlorophenol	ug/kg	160 U	170 U	160 U	1600 U	4000 U	2100 U	3300 U
Phenanthrene	ug/kg	7.0 U	10	38	1900	180 U	13000	12000
Phenol	ug/kg	52 U	56 U	54 U	530 U	1300 U	690 U	1100 U
Pyrene	ug/kg	12	36	39	9200	290	13000	12000
Metals								
Aluminum	mg/kg	3330	7310	2000	2640	9700	5340	5760
Antimony	mg/kg	1.1 J	1.8 J	0.85 J	29.1 J	669 J	13.5 J	26.7 J
Arsenic	mg/kg	5.5	8.3	3.5	8.6	29.7	31.7	25.1
Barium	mg/kg	47.9	124	23.7	159	423	254	276
Beryllium	mg/kg	0.058 J	0.32 J	0.54 U	0.27 J	0.36 J	4.0 J	2.8
Cadmium	mg/kg	0.21 J	0.43 J	0.14 J	2.6	34.2	0.86 J	3.3 J
Calcium	mg/kg	95800 J	48900 J	108000 J	120000 J	7780 J	19100 J	32500 J
Chromium	mg/kg	7.5	11.2	4.6	20.2	138	18.1	20.8
Chromium III (trivalent)	mg/kg	-	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-	-
Cobalt	mg/kg	3.6 J	5.7	2.5 J	4.7 J	22.5	12.4	9.5
Copper	mg/kg	49.8	34.6	17.7	2360	10400	114	270
Iron	mg/kg	10100	15700	6470	14300	121000	8570	11400
Lead	mg/kg	17.0 J	32.8 J	12.3 J	484 J	14100 J	82.3 J	178 J
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-
Magnesium	mg/kg	32900	22600	45700	58700	14000	6240	10400 J

Table 14

Summary of Analytical Results
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-4**	**TT-4**	**TT-4**	**TT-5**	**TT-5**	**TT-5**	**TT-5**
Sample ID:		**S-38443-092908-KMV-026**	**S-38443-092908-KMV-027**	**S-38443-092908-KMV-028**	**S-38443-093008-KMV-029**	**S-38443-093008-KMV-030**	**S-38443-093008-KMV-031**	**S-38443-093008-KMV-031-D**
Sample Date:		**9/29/2008**	**9/29/2008**	**9/29/2008**	**9/30/2008**	**9/30/2008**	**9/30/2008**	**9/30/2008**
Sample Depth:		**9 ft BGS**	**12 ft BGS**	**20 ft BGS**	**3 ft BGS**	**7 ft BGS**	**14 ft BGS**	**14 ft BGS**
								Duplicate
Parameters	**Units**							
Manganese	mg/kg	252 J	609 J	236 J	220 J	1490 J	155 J	224
Mercury	mg/kg	0.017 J	0.052 J	0.11 U	0.49	0.69	0.15	0.22
Nickel	mg/kg	9.7	16.4	5.8	56.8	475	30.2	40.2
Potassium	mg/kg	543 J	990 J	335 J	541 J	1850 J	852 J	799
Selenium	mg/kg	26.1 U	28.1 U	26.9 U	0.66 J	331 U	0.83 J	0.82 J
Silver	mg/kg	1.0 U	1.1 U	1.1 U	0.50 J	5.5	0.37 J	0.42 J
Sodium	mg/kg	81.1 J	561 U	125 J	242 J	3110	136 J	194 J
Thallium	mg/kg	0.11 U	0.20 U	0.11 U	0.13 U	26.4 U	1.4	0.56 U
Vanadium	mg/kg	12.8 J	18.8 J	9.6 J	12.1 J	51.8 J	29.3 J	25.4
Zinc	mg/kg	38.6 J	67.6 J	30.1 J	640 J	21900 J	165 J	440
PCBs								
Aroclor-1016 (PCB-1016)	ug/kg	34 UJ	37 UJ	36 UJ	35 U	44 U	36 U	37 U
Aroclor-1221 (PCB-1221)	ug/kg	34 UJ	37 UJ	36 UJ	35 U	44 U	36 U	37 U
Aroclor-1232 (PCB-1232)	ug/kg	34 UJ	37 UJ	36 UJ	35 U	44 U	36 U	37 U
Aroclor-1242 (PCB-1242)	ug/kg	34 UJ	37 UJ	36 UJ	35 U	44 U	36 U	37 U
Aroclor-1248 (PCB-1248)	ug/kg	34 UJ	37 UJ	36 UJ	35 U	44 U	36 U	37 U
Aroclor-1254 (PCB-1254)	ug/kg	34 UJ	37 UJ	36 UJ	230	510	170	160
Aroclor-1260 (PCB-1260)	ug/kg	34 UJ	23 J	36 UJ	35 U	44 U	36 U	37 U
Pesticides								
4,4'-DDD	ug/kg	18 UJ	38 U	18 UJ	180 UJ	110 UJ	94 U	190 U
4,4'-DDE	ug/kg	18 U	38 U	18 U	52 J	110 U	94 U	190 U
4,4'-DDT	ug/kg	18 UJ	22 J	18 UJ	180 UJ	110 UJ	47 J	190 U
Aldrin	ug/kg	18 U	38 U	18 U	180 U	110 U	94 U	190 U
alpha-BHC	ug/kg	18 U	38 U	18 U	180 U	110 U	94 U	190 U
alpha-Chlordane	ug/kg	18 U	38 U	18 U	180 U	110 U	94 U	190 U
beta-BHC	ug/kg	18 U	38 U	18 U	180 U	110 U	94 U	190 U
delta-BHC	ug/kg	18 U	38 U	18 U	180 U	110 U	94 U	190 U
Dieldrin	ug/kg	18 U	38 U	18 U	180 U	110 U	94 U	190 U
Endosulfan I	ug/kg	18 U	38 U	18 U	180 U	110 U	94 U	190 U
Endosulfan II	ug/kg	18 U	38 U	18 U	180 U	110 U	94 U	190 U
Endosulfan sulfate	ug/kg	18 U	38 U	18 U	180 U	110 U	94 U	190 U
Endrin	ug/kg	18 U	38 U	18 U	180 U	110 U	94 U	190 U
Endrin aldehyde	ug/kg	18 U	38 U	18 U	180 U	110 U	94 U	190 U
Endrin ketone	ug/kg	18 U	38 U	18 U	180 U	110 U	94 U	190 U
gamma-BHC (lindane)	ug/kg	18 U	38 U	18 U	180 U	110 U	94 U	190 U
gamma-Chlordane	ug/kg	18 U	38 U	18 U	180 U	110 U	94 U	190 U
Heptachlor	ug/kg	18 U	38 U	18 U	180 U	110 U	94 U	190 U
Heptachlor epoxide	ug/kg	18 U	38 U	18 U	180 U	110 U	94 U	190 U
Methoxychlor	ug/kg	34 UJ	74 U	36 UJ	350 UJ	220 UJ	180 U	370 U
Toxaphene	ug/kg	700 UJ	1500 U	720 UJ	7100 UJ	4400 UJ	3700 U	7500 UJ
Herbicides								
2,4,5-T	ug/kg	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/kg	21 U	22 U	22 U	21 U	26 U	22 U	22 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	83 U	90 U	86 U	84 U	110 U	88 U	89 U

Table 14

Summary of Analytical Results
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-4**	**TT-4**	**TT-4**	**TT-5**	**TT-5**	**TT-5**	**TT-5**
Sample ID:		**S-38443-092908-KMV-026**	**S-38443-092908-KMV-027**	**S-38443-092908-KMV-028**	**S-38443-093008-KMV-029**	**S-38443-093008-KMV-030**	**S-38443-093008-KMV-031**	**S-38443-093008-KMV-031-D**
Sample Date:		**9/29/2008**	**9/29/2008**	**9/29/2008**	**9/30/2008**	**9/30/2008**	**9/30/2008**	**9/30/2008**
Sample Depth:		**9 ft BGS**	**12 ft BGS**	**20 ft BGS**	**3 ft BGS**	**7 ft BGS**	**14 ft BGS**	**14 ft BGS**
								Duplicate
Parameters	**Units**							
Dioxin/Furans								
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Asbestos								
Asbestos	%	-	-	-	-	-	-	-
Chrysotile asbestos	%	-	-	-	-	-	-	-
General Chemistry								
Cyanide (total)	mg/kg	0.52 U	0.56 U	0.45 J	0.31 J	0.79 J	0.55 U	0.56 U
Total solids	%	95.9	89.1	93.0	95.0	75.6	90.5	89.7

Notes
< - Less than reported value.
> - Greater than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 14

Summary of Analytical Results
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-5**	**TT-19**	**TT-19**	**TT-20**	**TT-20**	**TT-20**	**TT-20**
Sample ID:		**S-38443-093008-KMV-032**	**S-38443-100708-KMV-059**	**S-38443-100708-KMV-060**	**S-38443-100708-KMV-065**	**S-38443-100708-KMV-065-D**	**S-38443-100708-KMV-064**	**S-38443-100808-KMV-071**
Sample Date:		**9/30/2008**	**10/7/2008**	**10/7/2008**	**10/7/2008**	**10/7/2008**	**10/7/2008**	**10/8/2008**
Sample Depth:		**17 ft BGS**	**7 ft BGS**	**9 ft BGS**	**7 ft BGS**	**7 ft BGS**	**15 ft BGS**	**-**
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/kg	5.3 U	2.7 J	5.2 U	-	290 UJ	5.4 U	-
1,1,2,2-Tetrachloroethane	ug/kg	5.3 U	6.4 UJ	5.2 U	-	290 UJ	5.4 U	-
1,1,2-Trichloroethane	ug/kg	5.3 U	6.4 U	5.2 U	-	290 UJ	5.4 U	-
1,1-Dichloroethane	ug/kg	5.3 U	6.4 U	5.2 U	-	290 UJ	5.4 U	-
1,1-Dichloroethene	ug/kg	5.3 U	6.4 U	5.2 U	-	290 UJ	5.4 U	-
1,2,4-Trichlorobenzene	ug/kg	5.3 U	6.4 UJ	5.2 U	-	290 UJ	5.4 U	-
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	11 U	13 UJ	10 U	-	580 UJ	11 U	-
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	5.3 U	6.4 U	5.2 U	-	290 UJ	5.4 U	-
1,2-Dichlorobenzene	ug/kg	5.3 U	6.4 UJ	5.2 U	-	290 UJ	5.4 U	-
1,2-Dichloroethane	ug/kg	5.3 U	6.4 U	5.2 U	-	290 UJ	5.4 U	-
1,2-Dichloroethene (total)	ug/kg	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/kg	5.3 U	6.4 U	5.2 U	-	290 UJ	5.4 U	-
1,3-Dichlorobenzene	ug/kg	5.3 U	6.4 UJ	5.2 U	-	290 UJ	5.4 U	-
1,4-Dichlorobenzene	ug/kg	5.3 U	6.4 UJ	5.2 U	-	290 UJ	5.4 U	-
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	21 U	26 U	21 U	-	1200 UJ	22 U	-
2-Hexanone	ug/kg	21 U	26 U	21 U	-	1200 UJ	22 U	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	21 U	26 U	21 U	-	1200 UJ	22 U	-
Acetone	ug/kg	21 U	26 U	21 U	-	1200 UJ	22 U	-
Benzene	ug/kg	5.3 U	1.0 J	5.2 U	-	290 UJ	5.4 U	-
Bromodichloromethane	ug/kg	5.3 U	6.4 U	5.2 U	-	290 UJ	5.4 U	-
Bromoform	ug/kg	5.3 U	6.4 U	5.2 U	-	290 UJ	5.4 U	-
Bromomethane (Methyl bromide)	ug/kg	5.3 U	6.4 U	5.2 U	-	290 UJ	5.4 U	-
Carbon disulfide	ug/kg	5.3 U	6.4 U	5.2 U	-	290 UJ	5.4 U	-
Carbon tetrachloride	ug/kg	5.3 U	6.4 U	5.2 U	-	290 UJ	5.4 U	-
Chlorobenzene	ug/kg	5.3 U	6.4 U	5.2 U	-	290 UJ	5.4 U	-
Chloroethane	ug/kg	5.3 U	6.4 U	5.2 U	-	290 UJ	5.4 U	-
Chloroform (Trichloromethane)	ug/kg	5.3 U	6.4 U	5.2 U	-	290 UJ	5.4 U	-
Chloromethane (Methyl chloride)	ug/kg	5.3 U	6.4 U	5.2 U	-	290 UJ	5.4 U	-
cis-1,2-Dichloroethene	ug/kg	0.62 J	6.4 U	5.2 U	-	290 UJ	5.4 U	-
cis-1,3-Dichloropropene	ug/kg	5.3 U	6.4 U	5.2 U	-	290 UJ	5.4 U	-
Cyclohexane	ug/kg	11 U	13 U	10 U	-	580 UJ	11 U	-
Dibromochloromethane	ug/kg	5.3 U	6.4 U	5.2 U	-	290 UJ	5.4 U	-
Dichlorodifluoromethane (CFC-12)	ug/kg	5.3 U	6.4 U	5.2 U	-	290 UJ	5.4 U	-
Ethylbenzene	ug/kg	5.3 U	6.4 U	5.2 U	-	290 UJ	5.4 U	-
Isopropyl benzene	ug/kg	5.3 U	6.4 U	5.2 U	-	290 UJ	5.4 U	-
Methyl acetate	ug/kg	11 U	13 U	10 U	-	580 UJ	11 U	-
Methyl cyclohexane	ug/kg	0.82 J	13 U	0.83 J	-	580 UJ	11 U	-
Methyl tert butyl ether (MTBE)	ug/kg	21 U	26 U	21 U	-	1200 UJ	22 U	-
Methylene chloride	ug/kg	5.3 U	6.4 U	5.2 U	-	290 UJ	5.4 U	-
Styrene	ug/kg	5.3 U	6.4 UJ	5.2 UJ	-	290 UJ	5.4 UJ	-
Tetrachloroethene	ug/kg	5.3 U	1.6 J	5.2 U	-	2500 J	57	-
Toluene	ug/kg	0.61 J	1.6 J	0.41 J	-	24 J	5.4 U	-
trans-1,2-Dichloroethene	ug/kg	5.3 U	6.4 U	5.2 U	-	290 UJ	5.4 U	-
trans-1,3-Dichloropropene	ug/kg	5.3 U	6.4 U	5.2 U	-	290 UJ	5.4 U	-
Trichloroethene	ug/kg	1.7 J	29	5.2 U	-	60 J	5.4 U	-
Trichlorofluoromethane (CFC-11)	ug/kg	5.3 U	6.4 U	5.2 U	-	290 UJ	5.4 U	-
Trifluorotrichloroethane (CFC-113)	ug/kg	5.3 U	6.4 U	5.2 U	-	290 UJ	5.4 U	-
Vinyl chloride	ug/kg	5.3 U	6.4 U	5.2 U	-	290 UJ	5.4 U	-
Xylenes (total)	ug/kg	11 U	2.0 J	1.4 J	-	580 UJ	1.4 J	-

Table 14

Summary of Analytical Results
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-5**	**TT-19**	**TT-19**	**TT-20**	**TT-20**	**TT-20**	**TT-20**
Sample ID:		**S-38443-093008-KMV-032**	**S-38443-100708-KMV-059**	**S-38443-100708-KMV-060**	**S-38443-100708-KMV-065**	**S-38443-100708-KMV-065-D**	**S-38443-100708-KMV-064**	**S-38443-100808-KMV-071**
Sample Date:		**9/30/2008**	**10/7/2008**	**10/7/2008**	**10/7/2008**	**10/7/2008**	**10/7/2008**	**10/8/2008**
Sample Depth:		**17 ft BGS**	**7 ft BGS**	**9 ft BGS**	**7 ft BGS**	**7 ft BGS**	**15 ft BGS**	**-**
Parameters	**Units**							
Semi-Volatiles								
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	110 U	110 U	110 U	130 U	-	120 U	-
2,4,5-Trichlorophenol	ug/kg	170 U	160 U	160 U	200 U	-	180 U	-
2,4,6-Trichlorophenol	ug/kg	170 U	160 U	160 U	200 U	-	180 U	-
2,4-Dichlorophenol	ug/kg	170 U	160 U	160 U	200 U	-	180 U	-
2,4-Dimethylphenol	ug/kg	170 U	160 U	160 U	200 U	-	180 U	-
2,4-Dinitrophenol	ug/kg	370 U	350 U	350 U	430 U	-	390 U	-
2,4-Dinitrotoluene	ug/kg	220 U	210 U	210 U	260 U	-	240 U	-
2,6-Dinitrotoluene	ug/kg	220 U	210 U	210 U	260 U	-	240 U	-
2-Chloronaphthalene	ug/kg	56 U	53 U	53 U	66 U	-	60 U	-
2-Chlorophenol	ug/kg	56 U	53 U	53 U	66 U	-	60 U	-
2-Methylnaphthalene	ug/kg	7.4 U	7.1 U	7.0 U	16	-	8.0 U	-
2-Methylphenol	ug/kg	220 U	210 UJ	210 UJ	260 U	-	240 UJ	-
2-Nitroaniline	ug/kg	220 U	210 U	210 U	260 U	-	240 U	-
2-Nitrophenol	ug/kg	56 U	53 U	53 U	66 U	-	60 U	-
3&4-Methylphenol	ug/kg	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/kg	110 U	110 U	110 U	130 U	-	120 U	-
3-Nitroaniline	ug/kg	220 U	210 U	210 U	260 U	-	240 U	-
4,6-Dinitro-2-methylphenol	ug/kg	170 U	160 U	160 U	200 U	-	180 U	-
4-Bromophenyl phenyl ether	ug/kg	56 U	53 U	53 U	66 U	-	60 U	-
4-Chloro-3-methylphenol	ug/kg	170 U	160 U	160 U	200 U	-	180 U	-
4-Chloroaniline	ug/kg	170 U	160 U	160 U	200 U	-	180 U	-
4-Chlorophenyl phenyl ether	ug/kg	56 U	53 U	53 U	66 U	-	60 U	-
4-Methylphenol	ug/kg	220 U	210 U	210 U	260 U	-	240 U	-
4-Nitroaniline	ug/kg	220 U	210 U	210 U	260 U	-	240 U	-
4-Nitrophenol	ug/kg	370 U	350 U	350 U	430 U	-	390 U	-
Acenaphthene	ug/kg	7.4 U	7.1 U	7.0 U	12	-	8.0 U	-
Acenaphthylene	ug/kg	7.4 U	7.1 U	7.0 U	120	-	8.0 U	-
Acetophenone	ug/kg	110 U	110 U	110 U	130 U	-	120 U	-
Anthracene	ug/kg	7.4 U	7.1 U	9.8	110	-	20	-
Atrazine	ug/kg	220 U	210 U	210 U	260 U	-	240 U	-
Benzaldehyde	ug/kg	110 U	110 U	110 U	130 U	-	120 U	-
Benzo(a)anthracene	ug/kg	8.0	48	21	730	-	57	-
Benzo(a)pyrene	ug/kg	7.7	58	18	660	-	51	-
Benzo(b)fluoranthene	ug/kg	11	78	20	950	-	59	-
Benzo(g,h,i)perylene	ug/kg	7.4 U	44	11	420	-	28	-
Benzo(k)fluoranthene	ug/kg	7.4 U	36	9.7	370	-	27	-
Biphenyl (1,1-Biphenyl)	ug/kg	56 U	53 U	53 U	66 U	-	60 U	-
bis(2-Chloroethoxy)methane	ug/kg	110 U	110 U	110 U	130 U	-	120 U	-
bis(2-Chloroethyl)ether	ug/kg	110 U	110 U	110 U	130 U	-	120 U	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	56 U	53 U	53 U	66 U	-	60 U	-
Butyl benzylphthalate (BBP)	ug/kg	56 U	53 U	53 U	66 U	-	60 U	-
Caprolactam	ug/kg	370 U	350 U	350 U	430 U	-	390 U	-
Carbazole	ug/kg	56 U	53 U	53 U	69	-	60 U	-
Chrysene	ug/kg	7.4 U	60	19	600	-	53	-
Dibenz(a,h)anthracene	ug/kg	7.4 U	7.1 U	7.0 U	130	-	8.0 U	-
Dibenzofuran	ug/kg	56 U	53 U	53 U	66 U	-	60 U	-
Diethyl phthalate	ug/kg	56 U	53 U	53 U	66 U	-	60 U	-
Dimethyl phthalate	ug/kg	56 U	53 U	53 U	66 U	-	60 U	-

Table 14

Summary of Analytical Results
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-5**	**TT-19**	**TT-19**	**TT-20**	**TT-20**	**TT-20**	**TT-20**
Sample ID:		**S-38443-093008-KMV-032**	**S-38443-100708-KMV-059**	**S-38443-100708-KMV-060**	**S-38443-100708-KMV-065**	**S-38443-100708-KMV-065-D**	**S-38443-100708-KMV-064**	**S-38443-100808-KMV-071**
Sample Date:		**9/30/2008**	**10/7/2008**	**10/7/2008**	**10/7/2008**	**10/7/2008**	**10/7/2008**	**10/8/2008**
Sample Depth:		**17 ft BGS**	**7 ft BGS**	**9 ft BGS**	**7 ft BGS**	**7 ft BGS**	**15 ft BGS**	**-**
Parameters	**Units**							
Di-n-butylphthalate (DBP)	ug/kg	56 U	53 U	53 U	85	-	60 U	-
Di-n-octyl phthalate (DnOP)	ug/kg	56 U	53 U	53 U	66 U	-	60 U	-
Fluoranthene	ug/kg	13	75	43	1100	-	99	-
Fluorene	ug/kg	7.4 U	7.1 U	7.0 U	20	-	8.0 U	-
Hexachlorobenzene	ug/kg	7.4 U	7.1 U	7.0 U	8.8 U	-	8.0 U	-
Hexachlorobutadiene	ug/kg	56 U	53 U	53 U	66 U	-	60 U	-
Hexachlorocyclopentadiene	ug/kg	370 U	350 U	350 U	430 U	-	390 U	-
Hexachloroethane	ug/kg	56 U	53 U	53 U	66 U	-	60 U	-
Indeno(1,2,3-cd)pyrene	ug/kg	7.4 U	37	7.0 U	390	-	27	-
Isophorone	ug/kg	56 U	53 U	53 U	66 U	-	60 U	-
Naphthalene	ug/kg	7.4 U	7.1 U	7.0 U	27	-	8.0 U	-
Nitrobenzene	ug/kg	110 U	110 U	110 U	130 U	-	120 U	-
N-Nitrosodi-n-propylamine	ug/kg	56 U	53 U	53 U	66 U	-	60 U	-
N-Nitrosodiphenylamine	ug/kg	56 U	53 U	53 U	66 U	-	60 U	-
Pentachlorophenol	ug/kg	170 U	160 U	160 U	200 U	-	180 U	-
Phenanthrene	ug/kg	7.4 U	29	31	250	-	33	-
Phenol	ug/kg	56 U	53 U	53 U	66 U	-	60 U	-
Pyrene	ug/kg	12	58	35	710	-	83	-
Metals								
Aluminum	mg/kg	1200	7420	2720	14800	-	4960	-
Antimony	mg/kg	1.3 J	5.2 J	6.3 UJ	17.9 J	-	7.2 UJ	-
Arsenic	mg/kg	7.5	7.6	4.0	29.3	-	5.1	-
Barium	mg/kg	17.9 J	1310	29.5	4370	-	94.1	-
Beryllium	mg/kg	0.094 J	0.30 J	0.53 U	0.62 J	-	0.24 J	-
Cadmium	mg/kg	0.11 J	46.1 J	0.39 J	39.1 J	-	0.33 J	-
Calcium	mg/kg	139000 J	49000	119000	52700	-	56800	-
Chromium	mg/kg	3.2	93.8 J	6.0 J	93.4 J	-	7.7 J	-
Chromium III (trivalent)	mg/kg	-	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-	-
Cobalt	mg/kg	2.0 J	16.9	2.5 J	28.9	-	3.8 J	-
Copper	mg/kg	15.2	947 J	93.6 J	1000 J	-	23.2 J	-
Iron	mg/kg	7600	27700	8770	135000	-	11300	-
Lead	mg/kg	6.4 J	971	10.2 J	3480	-	8.0 J	-
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-
Magnesium	mg/kg	84800	17100	48300	6120	-	19600	-

Table 14

Summary of Analytical Results
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-5**	**TT-19**	**TT-19**	**TT-20**	**TT-20**	**TT-20**	**TT-20**
Sample ID:		**S-38443-093008-KMV-032**	**S-38443-100708-KMV-059**	**S-38443-100708-KMV-060**	**S-38443-100708-KMV-065**	**S-38443-100708-KMV-065-D**	**S-38443-100708-KMV-064**	**S-38443-100808-KMV-071**
Sample Date:		**9/30/2008**	**10/7/2008**	**10/7/2008**	**10/7/2008**	**10/7/2008**	**10/7/2008**	**10/8/2008**
Sample Depth:		**17 ft BGS**	**7 ft BGS**	**9 ft BGS**	**7 ft BGS**	**7 ft BGS**	**15 ft BGS**	**-**
Parameters	**Units**							
Manganese	mg/kg	183 J	479 J	183 J	997 J	-	386 J	-
Mercury	mg/kg	0.11 U	0.088 J	0.11 U	2.2	-	0.022 J	-
Nickel	mg/kg	6.8	34.4 J	8.0 J	377 J	-	9.2 J	-
Potassium	mg/kg	277 J	1150	613	2150	-	484 J	-
Selenium	mg/kg	27.8 U	26.6 U	26.3 U	164 U	-	29.9 U	-
Silver	mg/kg	1.1 U	0.45 J	1.1 U	2.9	-	1.2 U	-
Sodium	mg/kg	194 J	500 J	129 J	1430	-	597 U	-
Thallium	mg/kg	0.11 U	0.17	0.13 U	0.13 U	-	0.12 U	-
Vanadium	mg/kg	5.0 J	20.1	10.1	21.7 J	-	12.8	-
Zinc	mg/kg	22.8 J	922	42.7	6970	-	35.8	-
PCBs								
Aroclor-1016 (PCB-1016)	ug/kg	37 UJ	1800 U	35 U	43 U	-	39 U	38 U
Aroclor-1221 (PCB-1221)	ug/kg	37 UJ	1800 U	35 U	43 U	-	39 U	38 U
Aroclor-1232 (PCB-1232)	ug/kg	37 UJ	1800 U	35 U	43 U	-	39 U	38 U
Aroclor-1242 (PCB-1242)	ug/kg	37 UJ	1800 U	35 U	43 U	-	39 U	38 U
Aroclor-1248 (PCB-1248)	ug/kg	37 UJ	8100	56 U	43 U	-	39 U	38 U
Aroclor-1254 (PCB-1254)	ug/kg	37 UJ	1800 U	35 U	130	-	39 UJ	38 U
Aroclor-1260 (PCB-1260)	ug/kg	37 UJ	1300 J	35 U	43 U	-	39 UJ	38 U
Pesticides								
4,4'-DDD	ug/kg	9.4 UJ	36 U	1.8 U	45 U	-	10 U	-
4,4'-DDE	ug/kg	9.4 U	49	1.8 U	15 J	-	10 U	-
4,4'-DDT	ug/kg	9.4 UJ	36 UJ	1.8 UJ	45 U	-	10 UJ	-
Aldrin	ug/kg	9.4 U	36 U	1.8 U	45 U	-	10 U	-
alpha-BHC	ug/kg	9.4 U	36 U	1.8 U	45 U	-	10 U	-
alpha-Chlordane	ug/kg	9.4 U	36 U	1.8 U	45 U	-	10 U	-
beta-BHC	ug/kg	9.4 U	36 U	1.8 U	45 U	-	10 U	-
delta-BHC	ug/kg	9.4 U	36 U	1.8 U	45 U	-	10 U	-
Dieldrin	ug/kg	9.4 U	31 J	1.8 U	45 U	-	10 U	-
Endosulfan I	ug/kg	9.4 U	36 U	1.8 U	45 U	-	10 U	-
Endosulfan II	ug/kg	9.4 U	36 U	1.8 U	45 U	-	10 U	-
Endosulfan sulfate	ug/kg	9.4 U	36 U	1.8 U	45 U	-	10 U	-
Endrin	ug/kg	9.4 U	36 U	1.8 U	45 U	-	10 U	-
Endrin aldehyde	ug/kg	9.4 U	36 U	1.8 U	45 U	-	10 U	-
Endrin ketone	ug/kg	9.4 U	36 U	1.8 U	45 U	-	10 U	-
gamma-BHC (lindane)	ug/kg	9.4 U	18 J	1.8 U	45 U	-	10 U	-
gamma-Chlordane	ug/kg	9.4 U	30 J	1.8 U	45 U	-	10 U	-
Heptachlor	ug/kg	9.4 U	36 U	1.8 U	45 U	-	10 U	-
Heptachlor epoxide	ug/kg	9.4 U	36 U	1.8 U	45 U	-	10 U	-
Methoxychlor	ug/kg	18 UJ	70 U	3.5 U	87 U	-	20 U	-
Toxaphene	ug/kg	370 UJ	1400 U	71 U	1800 U	-	400 U	-
Herbicides								
2,4,5-T	ug/kg	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/kg	22 U	21 U	21 U	26 U	-	24 U	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	89 U	85 U	84 U	110 U	-	96 U	-

Table 14

Summary of Analytical Results
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-5**	**TT-19**	**TT-19**	**TT-20**	**TT-20**	**TT-20**	**TT-20**
Sample ID:		**S-38443-093008-KMV-032**	**S-38443-100708-KMV-059**	**S-38443-100708-KMV-060**	**S-38443-100708-KMV-065**	**S-38443-100708-KMV-065-D**	**S-38443-100708-KMV-064**	**S-38443-100808-KMV-071**
Sample Date:		**9/30/2008**	**10/7/2008**	**10/7/2008**	**10/7/2008**	**10/7/2008**	**10/7/2008**	**10/8/2008**
Sample Depth:		**17 ft BGS**	**7 ft BGS**	**9 ft BGS**	**7 ft BGS**	**7 ft BGS**	**15 ft BGS**	**-**
Parameters	**Units**							
Dioxin/Furans								
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Asbestos								
Asbestos	%	-	-	-	-	-	-	-
Chrysotile asbestos	%	-	-	-	-	-	-	-
General Chemistry								
Cyanide (total)	mg/kg	0.56 U	4.1	0.53 U	0.83	-	0.60 U	-
Total solids	%	90.0	94.0	95.0	76.2	81.5	83.7	-

Notes
< - Less than reported value.
> - Greater than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 15

Summary of Analytical Results
Soil/Fill Samples - EU18
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**S2(EPA)**	**S03(OEPA)**	**S03(OEPA)**	**SS-26**	**SS-27**	**SS-28**	**SS-33**	**SS-34**
Sample ID:		**S2**	**96-DV-03-S03**	**96-DV-03-D03**	**SS-38443-102618-JC-026**	**SS-38443-102618-JC-027**	**SS-38443-102618-JC-028**	**SS-38443-102618-JC-033**	**SS-38443-102618-JC-034**
Sample Date:		**10/23/1990**	**7/9/1996**	**7/9/1996**	**10/26/2018**	**10/26/2018**	**10/26/2018**	**10/26/2018**	**10/26/2018**
Sample Depth:		**0-1 ft BGS**	**1.5-2 ft BGS**	**1.5-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.17-2.17 ft BGS**	**0-2 ft BGS**
				Duplicate					
Parameters	**Units**								
Volatiles									
1,1,1-Trichloroethane	ug/kg	-	12 U	12 U	R	0.85 U	0.87 U	1.5 U	2.1 UJ
1,1,2,2-Tetrachloroethane	ug/kg	-	12 U	12 U	R	R	1.5 U	R	R
1,1,2-Trichloroethane	ug/kg	-	12 U	12 U	R	1.2 U	1.2 U	R	R
1,1-Dichloroethane	ug/kg	-	12 U	12 U	R	0.72 U	0.74 U	1.3 U	1.8 UJ
1,1-Dichloroethene	ug/kg	-	12 U	12 U	R	0.93 U	0.96 U	1.7 U	2.3 UJ
1,2,4-Trichlorobenzene	ug/kg	-	410 U	410 U	R	R	0.61 U	R	R
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	-	-	-	R	R	3.8 U	R	R
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	-	-	-	R	0.80 U	0.82 U	R	R
1,2-Dichlorobenzene	ug/kg	-	410 U	410 U	R	R	1.2 U	R	R
1,2-Dichloroethane	ug/kg	-	12 U	12 U	R	0.80 U	0.82 U	1.4 U	2.0 UJ
1,2-Dichloroethene (total)	ug/kg	5 U	12 U	12 U	-	-	-	-	-
1,2-Dichloropropane	ug/kg	-	12 U	12 U	R	0.88 U	0.90 U	1.6 U	2.2 UJ
1,3-Dichlorobenzene	ug/kg	-	410 U	410 U	1.9 J	R	0.87 U	R	R
1,4-Dichlorobenzene	ug/kg	-	410 U	410 U	R	R	0.94 U	R	R
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	10 U	12 U	12 U	R	3.7 U	5.2 J	7.5 J	37 J
2-Hexanone	ug/kg	-	12 U	12 U	R	4.2 U	4.3 U	R	R
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	10 U	12 U	12 U	R	3.8 U	3.9 U	R	R
Acetone	ug/kg	5 U	12 U	3 J	R	22 U	22 U	39 U	53 UJ
Benzene	ug/kg	-	12 U	12 U	R	0.72 U	0.74 U	1.3 U	1.8 UJ
Bromodichloromethane	ug/kg	-	12 U	12 U	R	0.70 U	0.72 U	1.3 U	1.7 UJ
Bromoform	ug/kg	-	12 U	12 U	R	2.5 U	2.5 U	R	R
Bromomethane (Methyl bromide)	ug/kg	-	12 U	12 U	R	1.0 U	1.0 U	1.8 U	2.5 UJ
Carbon disulfide	ug/kg	-	12 U	12 U	R	1.2 U	1.2 U	2.2 U	2.9 UJ
Carbon tetrachloride	ug/kg	-	12 U	12 U	R	3.4 U	3.5 U	6.1 U	8.2 UJ
Chlorobenzene	ug/kg	-	12 U	12 U	R	0.95 U	0.97 U	R	R
Chloroethane	ug/kg	-	12 U	12 U	R	1.3 U	1.3 U	2.3 U	3.1 UJ
Chloroform (Trichloromethane)	ug/kg	-	12 U	12 U	R	0.82 U	0.84 U	1.5 U	2.0 UJ
Chloromethane (Methyl chloride)	ug/kg	-	12 U	12 U	R	1.1 U	1.1 U	1.9 U	2.6 UJ
cis-1,2-Dichloroethene	ug/kg	-	-	-	R	0.67 U	0.69 U	1.2 U	1.6 UJ
cis-1,3-Dichloropropene	ug/kg	-	12 U	12 U	R	1.5 U	1.5 U	2.7 U	3.6 UJ
Cyclohexane	ug/kg	-	-	-	R	1.4 U	1.5 U	2.6 U	3.5 UJ
Dibromochloromethane	ug/kg	-	12 U	12 U	R	2.9 U	3.0 U	R	R
Dichlorodifluoromethane (CFC-12)	ug/kg	-	-	-	R	0.98 U	1.0 U	1.8 U	2.4 UJ
Ethylbenzene	ug/kg	-	12 U	12 U	R	1.1 U	1.1 U	R	R
Isopropyl benzene	ug/kg	-	-	-	R	0.86 U	0.88 U	R	R
Methyl acetate	ug/kg	-	-	-	R	3.5 U	3.6 U	6.4 U	8.6 UJ
Methyl cyclohexane	ug/kg	-	-	-	R	1.3 U	1.3 U	2.3 U	3.1 UJ
Methyl tert butyl ether (MTBE)	ug/kg	-	-	-	R	0.85 U	0.87 U	1.5 U	2.1 UJ
Methylene chloride	ug/kg	-	12 JBU	12 JBU	55 J	12 U	13 U	22 U	30 UJ
Styrene	ug/kg	-	12 U	12 U	R	1.2 U	1.2 U	R	R
Tetrachloroethene	ug/kg	5 U	12 U	12 U	3.7 J	0.76 U	0.78 U	R	R
Toluene	ug/kg	5 U	7 J	5 J	R	0.80 U	0.82 U	R	R
trans-1,2-Dichloroethene	ug/kg	-	-	-	R	0.48 U	0.49 U	0.87 U	1.2 UJ
trans-1,3-Dichloropropene	ug/kg	-	12 U	12 U	R	1.1 U	1.1 U	R	R
Trichloroethene	ug/kg	5 U	12 U	12 U	3.5 J	0.65 U	0.67 U	1.2 U	1.6 UJ
Trichlorofluoromethane (CFC-11)	ug/kg	-	-	-	R	1.1 U	1.1 U	2.0 U	2.7 UJ
Trifluorotrichloroethane (CFC-113)	ug/kg	-	-	-	R	1.3 U	1.4 U	2.4 U	3.2 UJ
Vinyl chloride	ug/kg	-	12 U	12 U	R	0.87 U	0.89 U	1.6 U	2.1 UJ
Xylenes (total)	ug/kg	5 U	12 U	12 U	R	1.6 U	1.7 U	R	R

Table 15

Summary of Analytical Results
Soil/Fill Samples - EU18
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**S2(EPA)**	**S03(OEPA)**	**S03(OEPA)**	**SS-26**	**SS-27**	**SS-28**	**SS-33**	**SS-34**
Sample ID:		**S2**	**96-DV-03-S03**	**96-DV-03-D03**	**SS-38443-102618-JC-026**	**SS-38443-102618-JC-027**	**SS-38443-102618-JC-028**	**SS-38443-102618-JC-033**	**SS-38443-102618-JC-034**
Sample Date:		**10/23/1990**	**7/9/1996**	**7/9/1996**	**10/26/2018**	**10/26/2018**	**10/26/2018**	**10/26/2018**	**10/26/2018**
Sample Depth:		**0-1 ft BGS**	**1.5-2 ft BGS**	**1.5-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.17-2.17 ft BGS**	**0-2 ft BGS**
				Duplicate					
Parameters	**Units**								
Semi-Volatiles									
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	-	-	-	18 UJ	11 UJ	12 U	150 U	20 UJ
2,4,5-Trichlorophenol	ug/kg	-	1000 U	1000 U	130 U	77 U	86 U	1000 U	140 UJ
2,4,6-Trichlorophenol	ug/kg	-	410 U	410 U	120 U	71 U	80 U	950 U	130 UJ
2,4-Dichlorophenol	ug/kg	-	410 U	410 U	81 U	49 U	55 U	650 U	90 UJ
2,4-Dimethylphenol	ug/kg	-	410 U	410 U	73 U	45 U	50 U	590 U	81 UJ
2,4-Dinitrophenol	ug/kg	-	1000 U	1000 U	260 U	160 U	180 U	2100 U	290 UJ
2,4-Dinitrotoluene	ug/kg	-	410 U	410 U	110 U	69 U	77 U	920 U	130 UJ
2,6-Dinitrotoluene	ug/kg	-	410 U	410 U	100 U	62 U	70 U	830 U	110 UJ
2-Chloronaphthalene	ug/kg	-	410 U	410 U	26 U	16 U	17 U	210 U	29 UJ
2-Chlorophenol	ug/kg	-	410 U	410 U	18 U	11 U	12 U	150 U	20 UJ
2-Methylnaphthalene	ug/kg	250 J	410 U	410 U	1900	13 J	19	850	650 J
2-Methylphenol	ug/kg	-	410 U	410 U	57 U	35 U	39 U	460 U	63 UJ
2-Nitroaniline	ug/kg	-	1000 U	1000 U	73 U	45 U	50 U	590 U	81 UJ
2-Nitrophenol	ug/kg	-	410 U	410 U	24 U	14 U	16 U	190 U	26 UJ
3&4-Methylphenol	ug/kg	-	-	-	71 J	32 U	36 U	430 U	59 UJ
3,3'-Dichlorobenzidine	ug/kg	-	-	-	79 U	48 U	54 U	640 U	88 UJ
3-Nitroaniline	ug/kg	-	1000 U	1000 U	90 U	55 U	61 U	730 U	100 UJ
4,6-Dinitro-2-methylphenol	ug/kg	-	1000 U	1000 U	150 U	89 U	100 U	1200 U	160 UJ
4-Bromophenyl phenyl ether	ug/kg	-	410 U	410 U	26 U	16 U	17 U	210 U	29 UJ
4-Chloro-3-methylphenol	ug/kg	-	410 U	410 U	83 U	50 U	56 U	670 U	92 UJ
4-Chloroaniline	ug/kg	-	410 U	410 U	55 U	33 U	37 U	440 U	61 UJ
4-Chlorophenyl phenyl ether	ug/kg	-	410 U	410 U	26 U	16 U	17 U	210 U	29 UJ
4-Methylphenol	ug/kg	-	410 U	410 U	-	-	-	-	-
4-Nitroaniline	ug/kg	-	1000 U	1000 U	110 U	67 U	75 U	890 U	120 UJ
4-Nitrophenol	ug/kg	-	1000 U	1000 U	170 U	100 U	120 U	1400 U	190 UJ
Acenaphthene	ug/kg	330 U	410 U	410 U	52	3.2 U	3.6 U	520	38 J
Acenaphthylene	ug/kg	-	410 U	410 U	380	4.5 U	5.0 U	1100	8.2 UJ
Acetophenone	ug/kg	-	-	-	150 J	38 J	14 U	160 U	62 J
Anthracene	ug/kg	330 U	410 U	410 U	250	5.8 J	4.9 J	2100	63 J
Atrazine	ug/kg	-	-	-	66 U	40 U	45 U	530 U	73 UJ
Benzaldehyde	ug/kg	-	-	-	200	26 U	29 U	340 U	92 J
Benzo(a)anthracene	ug/kg	74 J	410 U	410 U	1500	11 J	11 J	6900	260 J
Benzo(a)pyrene	ug/kg	140 J	410 U	410 U	1500	10 U	14 J	6000	220 J
Benzo(b)fluoranthene	ug/kg	280 J	410 U	410 U	2600	12 J	18 J	8500	330 J
Benzo(g,h,i)perylene	ug/kg	330 U	410 U	410 U	1600	7.9 U	10 J	3900	220 J
Benzo(k)fluoranthene	ug/kg	330 U	410 U	410 U	800	7.7 U	8.6 U	2900	110 J
Biphenyl (1,1-Biphenyl)	ug/kg	-	-	-	160	19 U	21 U	250 U	74 J
bis(2-Chloroethoxy)methane	ug/kg	-	410 U	410 U	22 U	13 U	15 U	180 U	24 UJ
bis(2-Chloroethyl)ether	ug/kg	-	410 U	410 U	22 U	13 U	15 U	180 U	24 UJ
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	330 U	410 U	410 U	120 J	57 U	92	760 U	240 J
Butyl benzylphthalate (BBP)	ug/kg	330 U	410 U	33 J	40 U	24 U	27 U	330 U	45 UJ
Caprolactam	ug/kg	-	-	-	140 U	84 U	94 U	1100 U	150 UJ
Carbazole	ug/kg	-	410 U	410 U	77 J	21 U	24 U	870	52 J
Chrysene	ug/kg	150 J	21 J	25 J	1700	17	14 J	6700	290 J
Dibenz(a,h)anthracene	ug/kg	330 U	410 U	410 U	410	7.7 U	8.6 U	1200	58 J
Dibenzofuran	ug/kg	330 U	410 U	410 U	470	14 U	16 U	530 J	170 J
Diethyl phthalate	ug/kg	-	410 U	410 U	57 U	35 U	39 U	460 U	63 UJ
Dimethyl phthalate	ug/kg	-	410 U	410 U	26 U	16 U	17 U	210 U	29 UJ

Table 15

Summary of Analytical Results
Soil/Fill Samples - EU18
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**S2(EPA)**	**S03(OEPA)**	**S03(OEPA)**	**SS-26**	**SS-27**	**SS-28**	**SS-33**	**SS-34**
Sample ID:		**S2**	**96-DV-03-S03**	**96-DV-03-D03**	**SS-38443-102618-JC-026**	**SS-38443-102618-JC-027**	**SS-38443-102618-JC-028**	**SS-38443-102618-JC-033**	**SS-38443-102618-JC-034**
Sample Date:		**10/23/1990**	**7/9/1996**	**7/9/1996**	**10/26/2018**	**10/26/2018**	**10/26/2018**	**10/26/2018**	**10/26/2018**
Sample Depth:		**0-1 ft BGS**	**1.5-2 ft BGS**	**1.5-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.17-2.17 ft BGS**	**0-2 ft BGS**
				Duplicate					
Parameters	**Units**								
Di-n-butylphthalate (DBP)	ug/kg	330 U	410 U	27 J	40 U	24 U	27 U	330 U	45 UJ
Di-n-octyl phthalate (DnOP)	ug/kg	-	410 U	410 U	51 U	31 U	35 U	410 U	57 UJ
Fluoranthene	ug/kg	140 J	410 U	410 U	2000	14 J	16 J	15000	500 J
Fluorene	ug/kg	330 U	410 U	410 U	75	4.4 J	3.4 U	860	37 J
Hexachlorobenzene	ug/kg	-	410 U	410 U	5.2 U	3.2 U	3.6 U	42 U	5.8 UJ
Hexachlorobutadiene	ug/kg	-	410 U	410 U	22 U	13 U	15 U	180 U	24 UJ
Hexachlorocyclopentadiene	ug/kg	-	410 U	410 U	110 U	69 U	77 U	920 U	130 UJ
Hexachloroethane	ug/kg	-	410 U	410 U	17 U	10 U	11 U	130 U	18 UJ
Indeno(1,2,3-cd)pyrene	ug/kg	330 U	410 U	410 U	1300	8.2 U	9.2 U	3800	160 J
Isophorone	ug/kg	-	410 U	410 U	22 U	13 U	15 U	180 U	24 UJ
Naphthalene	ug/kg	150	410 U	410 U	1400	20	25	700	420 J
Nitrobenzene	ug/kg	-	410 U	410 U	24 U	14 U	16 U	190 U	26 UJ
N-Nitrosodi-n-propylamine	ug/kg	-	410 U	410 U	20 U	12 U	14 U	160 U	22 UJ
N-Nitrosodiphenylamine	ug/kg	330 U	410 U	410 U	22 U	13 U	15 U	180 U	24 UJ
Pentachlorophenol	ug/kg	-	1000 U	1000 U	110 U	65 U	72 U	860 U	120 UJ
Phenanthrene	ug/kg	200 J	33 J	34 J	1200	32	22	7900	590 J
Phenol	ug/kg	-	410 U	410 U	48 J	8.9 U	10 U	120 U	46 J
Pyrene	ug/kg	150 J	410 U	410 U	2300	14 J	22	12000	440 J
Metals									
Aluminum	mg/kg	3800	1910	1140	7500	1200	1500	6600	7600 J
Antimony	mg/kg	2.4 U	0.74 U	0.90 U	1.6 J	0.57 J	0.21 J	3.4 J	1.4 J
Arsenic	mg/kg	6.8	1.6 B	1.2 U	41	3.8	3.0	17	28 J
Barium	mg/kg	23.28	12.2 B	7.2 B	310	6.3	9.2	220	220 J
Beryllium	mg/kg	1 U	0.25 U	0.30 U	5.8	0.063 J	0.061 J	2.0	2.2 J
Cadmium	mg/kg	1 U	0.43 B	0.30 U	0.76	0.13 J	1.2	1.1	0.68 J
Calcium	mg/kg	13300	995 B	979 B	26000	590	6600	45000	14000 J
Chromium	mg/kg	16.9	17.6	8.5	22	43	31	17	52 J
Chromium III (trivalent)	mg/kg	-	-	-	21	42	31	17	52 J
Chromium VI (hexavalent)	mg/kg	-	-	-	0.91 J	0.56 J	0.30 U	0.36 U	2.5 UJ
Cobalt	mg/kg	10 U	2.0 B	1.4 B	16	4.3	2.1	8.9	9.7 J
Copper	mg/kg	48.9 EJ	136	96.9	85	88	34	210	81 J
Iron	mg/kg	18000	24200	15900	9700	47000	27000	13000	17000 J
Lead	mg/kg	43	15.4	7.2	84	6.4	26	170	110 J
Lead - coarse fraction	mg/kg	-	-	-	-	-	48	200	-
Lead - fine fraction	mg/kg	-	-	-	-	-	260	290	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	84	220	-
Magnesium	mg/kg	7790	565 B	560 B	13000	340	500	18000	6000 J
Manganese	mg/kg	344	427	265	120	510	1400	200	130 J
Mercury	mg/kg	0.008 U	0.12 U	0.15 U	0.097 J	0.019 U	0.024 U	0.32	0.40 J
Nickel	mg/kg	13.9	18.7	11.3 B	30	51	22	30	42 J
Potassium	mg/kg	308 B	126 B	86 B	1000	81 J	110 J	1200	1500 J
Selenium	mg/kg	1.2 BWJ	0.99 U	1.2 U	6.3	0.23 J	0.36 J	3.1	3.8 J
Silver	mg/kg	2 U	0.25 U	0.30 U	0.23 J	0.082 J	0.11 J	0.35	0.17 J
Sodium	mg/kg	123 B	327 B	318 B	290 J	44 J	91 J	240 J	390 J
Thallium	mg/kg	2 U	2.1 B	1.3 B	2.4	0.039 U	0.054 U	0.89	1.0 J
Vanadium	mg/kg	7.3 B	1.2 B	0.62 B	60	2.7	2.0	27	29 J
Zinc	mg/kg	550	41.7	22.3	160	18	66	220	160 J

Table 15

Summary of Analytical Results
Soil/Fill Samples - EU18
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**S2(EPA)**	**S03(OEPA)**	**S03(OEPA)**	**SS-26**	**SS-27**	**SS-28**	**SS-33**	**SS-34**
Sample ID:		**S2**	**96-DV-03-S03**	**96-DV-03-D03**	**SS-38443-102618-JC-026**	**SS-38443-102618-JC-027**	**SS-38443-102618-JC-028**	**SS-38443-102618-JC-033**	**SS-38443-102618-JC-034**
Sample Date:		**10/23/1990**	**7/9/1996**	**7/9/1996**	**10/26/2018**	**10/26/2018**	**10/26/2018**	**10/26/2018**	**10/26/2018**
Sample Depth:		**0-1 ft BGS**	**1.5-2 ft BGS**	**1.5-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.17-2.17 ft BGS**	**0-2 ft BGS**
				Duplicate					
Parameters	**Units**								
PCBs									
Aroclor-1016 (PCB-1016)	ug/kg	-	41 U	41 U	40 U	24 U	27 U	32 U	45 UJ
Aroclor-1221 (PCB-1221)	ug/kg	-	83 U	84 U	43 U	26 U	30 U	35 U	49 UJ
Aroclor-1232 (PCB-1232)	ug/kg	-	41 U	41 U	42 U	25 U	28 U	34 U	47 UJ
Aroclor-1242 (PCB-1242)	ug/kg	-	41 U	41 U	34 U	21 U	23 U	28 U	39 UJ
Aroclor-1248 (PCB-1248)	ug/kg	4200 X	41 U	41 U	43 U	26 U	30 U	35 U	49 UJ
Aroclor-1254 (PCB-1254)	ug/kg	-	41 U	41 U	42 U	25 U	28 U	130	240 J
Aroclor-1260 (PCB-1260)	ug/kg	2800 X	41 U	41 U	200	24 U	27 U	32 U	45 UJ
Pesticides									
4,4'-DDD	ug/kg	-	4.1 U	4.1 U	27 U	16 U	1.8 U	110 U	3.0 UJ
4,4'-DDE	ug/kg	-	4.1 U	4.1 U	27 U	17 U	1.9 U	110 U	3.1 UJ
4,4'-DDT	ug/kg	-	4.1 U	4.1 U	20 U	12 U	1.4 U	83 U	2.3 UJ
Aldrin	ug/kg	-	2.1 U	2.1 U	14 U	8.5 U	0.95 U	56 U	1.6 UJ
alpha-BHC	ug/kg	-	2.1 U	2.1 U	16 U	10 U	1.1 U	67 U	1.9 UJ
alpha-Chlordane	ug/kg	-	2.1 U	2.1 U	27 U	17 U	1.8 U	110 U	3.1 UJ
beta-BHC	ug/kg	-	2.1 U	2.1 U	31 U	19 U	2.1 U	130 U	3.6 UJ
delta-BHC	ug/kg	-	2.1 U	2.1 U	31 U	19 U	100 U	120 U	70 UJ
Dieldrin	ug/kg	-	4.1 U	4.1 U	20 U	12 U	1.4 U	80 U	2.3 UJ
Endosulfan I	ug/kg	-	2.1 U	2.1 U	22 U	13 U	1.5 U	88 U	2.5 UJ
Endosulfan II	ug/kg	-	4.1 U	4.1 U	27 U	16 U	1.8 U	110 U	4.0 J
Endosulfan sulfate	ug/kg	-	4.1 U	4.1 U	23 U	14 U	79 U	94 U	53 UJ
Endrin	ug/kg	-	2.3 PJ	4.1 U	34 U	21 U	2.3 U	140 U	3.9 UJ
Endrin aldehyde	ug/kg	-	6.6	6.6 P	24 U	14 U	81 U	96 U	54 UJ
Endrin ketone	ug/kg	-	4.1 U	4.1 U	16 U	9.8 U	1.1 U	65 U	1.8 UJ
gamma-BHC (lindane)	ug/kg	-	2.1 U	2.1 U	32 U	20 U	2.2 U	130 U	3.7 UJ
gamma-Chlordane	ug/kg	-	2.1 U	0.96 PJ	22 U	14 U	1.5 U	90 U	2.5 UJ
Heptachlor	ug/kg	-	2.1 U	2.1 U	29 U	17 U	1.9 U	120 U	3.2 UJ
Heptachlor epoxide	ug/kg	-	2.1 U	0.49 PJ	26 U	16 U	1.8 U	110 U	3.0 UJ
Methoxychlor	ug/kg	-	1.8 PJ	21 U	120 UJ	72 UJ	8.1 UJ	480 U	13 UJ
Toxaphene	ug/kg	-	240 U	210 U	450 U	280 U	31 U	1800 U	51 UJ
Herbicides									
2,4,5-T	ug/kg	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/kg	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	-	-	-	-	-	-	-	-
Dioxin/Furans									
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	38 U	7.7 UJ	14 UJ	11 U	27 UJ
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	120	53 J	41 J	6200 J	90 J
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	57	2.3 U	8.3 U	7.8 U	9.6 UJ
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	48	7.3	7.6	62	11 J
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	0.63 U	0.31 U	1.8 J	0.32 U	1.6 UJ
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	7.5 J	0.22 U	4.9 J	1.2 J	0.93 UJ
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	11	0.055 U	0.13 U	0.81 J	1.8 UJ
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	5.6 J	0.23 U	1.8 J	2.6 J	0.83 UJ
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	17 J	0.061 U	0.99 J	1.9 J	1.8 UJ
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	0.65 U	0.31 U	0.47 U	0.24 U	1.2 UJ
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	18 J	0.053 U	0.98 J	2.6 J	1.6 UJ
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	3.1 J	0.12 U	0.26 U	0.14 U	0.36 UJ

Table 15

Summary of Analytical Results
Soil/Fill Samples - EU18
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**S2(EPA)**	**S03(OEPA)**	**S03(OEPA)**	**SS-26**	**SS-27**	**SS-28**	**SS-33**	**SS-34**
Sample ID:		**S2**	**96-DV-03-S03**	**96-DV-03-D03**	**SS-38443-102618-JC-026**	**SS-38443-102618-JC-027**	**SS-38443-102618-JC-028**	**SS-38443-102618-JC-033**	**SS-38443-102618-JC-034**
Sample Date:		**10/23/1990**	**7/9/1996**	**7/9/1996**	**10/26/2018**	**10/26/2018**	**10/26/2018**	**10/26/2018**	**10/26/2018**
Sample Depth:		**0-1 ft BGS**	**1.5-2 ft BGS**	**1.5-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.17-2.17 ft BGS**	**0-2 ft BGS**
				Duplicate					
Parameters	**Units**								
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	10 J	0.15 U	0.12 U	0.18 U	0.92 UJ
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	4.2 J	0.22 U	1.9 J	0.21 U	1.0 UJ
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	3.9 J	0.11 U	2.9 J	0.14 U	1.3 J
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	1.8	0.29 U	1.3	1.0 J	0.95 UJ
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	0.62 U	0.39 U	0.42 U	0.38 U	1.0 UJ
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	94 J	4.0 J	15 J	15 J	9.6 J
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	82 J	13 J	14 J	130 J	22 J
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	47 J	1.4 J	14 J	14 J	4.2 J
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	94 J	2.9 J	6.6 J	22 J	1.8 UJ
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	43 J	0.12 U	20 J	18 J	8.0 J
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	58 J	0.53 J	1.4 J	3.7 J	0.92 UJ
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	130 J	0.29 U	17 J	33 J	5.4 J
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	10 J	0.39 U	0.42 U	2.1 J	1.0 UJ
Asbestos									
Asbestos	%	-	-	-	-	-	-	-	-
Chrysotile asbestos	%	-	-	-	-	-	-	-	-
General Chemistry									
Cyanide (total)	mg/kg	-	0.19 U	0.22 U	0.54 J	0.23 U	0.24 U	0.31 J	0.94 J
Soot carbon	mg/kg	-	-	-	67000	1300	1900	50000	49000 J
Total organic carbon (TOC)	mg/kg	-	-	-	32000	6900	5200	31000	29000 J

Notes
< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
E - Estimated because of the presence of interference (Inorganics).
J - Estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Table 15

Summary of Analytical Results
Soil/Fill Samples - EU18
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-105**	**SS-179-AS**	**SS-180-AS**
Sample ID:		**SS-38443-102618-JC-105**	**SS-38443-102618-JC-179**	**SS-38443-102618-JC-180**
Sample Date:		**10/26/2018**	**10/26/2018**	**10/26/2018**
Sample Depth:		**0-2 ft BGS**	**0-0.5 ft BGS**	**0.17-0.67 ft BGS**
Parameters	**Units**			
Volatiles				
1,1,1-Trichloroethane	ug/kg	-	-	-
1,1,2,2-Tetrachloroethane	ug/kg	-	-	-
1,1,2-Trichloroethane	ug/kg	-	-	-
1,1-Dichloroethane	ug/kg	-	-	-
1,1-Dichloroethene	ug/kg	-	-	-
1,2,4-Trichlorobenzene	ug/kg	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	-	-	-
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	-	-	-
1,2-Dichlorobenzene	ug/kg	-	-	-
1,2-Dichloroethane	ug/kg	-	-	-
1,2-Dichloroethene (total)	ug/kg	-	-	-
1,2-Dichloropropane	ug/kg	-	-	-
1,3-Dichlorobenzene	ug/kg	-	-	-
1,4-Dichlorobenzene	ug/kg	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	-	-	-
2-Hexanone	ug/kg	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	-	-	-
Acetone	ug/kg	-	-	-
Benzene	ug/kg	-	-	-
Bromodichloromethane	ug/kg	-	-	-
Bromoform	ug/kg	-	-	-
Bromomethane (Methyl bromide)	ug/kg	-	-	-
Carbon disulfide	ug/kg	-	-	-
Carbon tetrachloride	ug/kg	-	-	-
Chlorobenzene	ug/kg	-	-	-
Chloroethane	ug/kg	-	-	-
Chloroform (Trichloromethane)	ug/kg	-	-	-
Chloromethane (Methyl chloride)	ug/kg	-	-	-
cis-1,2-Dichloroethene	ug/kg	-	-	-
cis-1,3-Dichloropropene	ug/kg	-	-	-
Cyclohexane	ug/kg	-	-	-
Dibromochloromethane	ug/kg	-	-	-
Dichlorodifluoromethane (CFC-12)	ug/kg	-	-	-
Ethylbenzene	ug/kg	-	-	-
Isopropyl benzene	ug/kg	-	-	-
Methyl acetate	ug/kg	-	-	-
Methyl cyclohexane	ug/kg	-	-	-
Methyl tert butyl ether (MTBE)	ug/kg	-	-	-
Methylene chloride	ug/kg	-	-	-
Styrene	ug/kg	-	-	-
Tetrachloroethene	ug/kg	-	-	-
Toluene	ug/kg	-	-	-
trans-1,2-Dichloroethene	ug/kg	-	-	-
trans-1,3-Dichloropropene	ug/kg	-	-	-
Trichloroethene	ug/kg	-	-	-
Trichlorofluoromethane (CFC-11)	ug/kg	-	-	-
Trifluorotrichloroethane (CFC-113)	ug/kg	-	-	-
Vinyl chloride	ug/kg	-	-	-
Xylenes (total)	ug/kg	-	-	-

Table 15

Summary of Analytical Results
Soil/Fill Samples - EU18
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-105**	**SS-179-AS**	**SS-180-AS**
Sample ID:		**SS-38443-102618-JC-105**	**SS-38443-102618-JC-179**	**SS-38443-102618-JC-180**
Sample Date:		**10/26/2018**	**10/26/2018**	**10/26/2018**
Sample Depth:		**0-2 ft BGS**	**0-0.5 ft BGS**	**0.17-0.67 ft BGS**
Parameters	**Units**			
Semi-Volatiles				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	-	-	-
2,4,5-Trichlorophenol	ug/kg	-	-	-
2,4,6-Trichlorophenol	ug/kg	-	-	-
2,4-Dichlorophenol	ug/kg	-	-	-
2,4-Dimethylphenol	ug/kg	-	-	-
2,4-Dinitrophenol	ug/kg	-	-	-
2,4-Dinitrotoluene	ug/kg	-	-	-
2,6-Dinitrotoluene	ug/kg	-	-	-
2-Chloronaphthalene	ug/kg	-	-	-
2-Chlorophenol	ug/kg	-	-	-
2-Methylnaphthalene	ug/kg	-	-	-
2-Methylphenol	ug/kg	-	-	-
2-Nitroaniline	ug/kg	-	-	-
2-Nitrophenol	ug/kg	-	-	-
3&4-Methylphenol	ug/kg	-	-	-
3,3'-Dichlorobenzidine	ug/kg	-	-	-
3-Nitroaniline	ug/kg	-	-	-
4,6-Dinitro-2-methylphenol	ug/kg	-	-	-
4-Bromophenyl phenyl ether	ug/kg	-	-	-
4-Chloro-3-methylphenol	ug/kg	-	-	-
4-Chloroaniline	ug/kg	-	-	-
4-Chlorophenyl phenyl ether	ug/kg	-	-	-
4-Methylphenol	ug/kg	-	-	-
4-Nitroaniline	ug/kg	-	-	-
4-Nitrophenol	ug/kg	-	-	-
Acenaphthene	ug/kg	-	-	-
Acenaphthylene	ug/kg	-	-	-
Acetophenone	ug/kg	-	-	-
Anthracene	ug/kg	-	-	-
Atrazine	ug/kg	-	-	-
Benzaldehyde	ug/kg	-	-	-
Benzo(a)anthracene	ug/kg	-	-	-
Benzo(a)pyrene	ug/kg	-	-	-
Benzo(b)fluoranthene	ug/kg	-	-	-
Benzo(g,h,i)perylene	ug/kg	-	-	-
Benzo(k)fluoranthene	ug/kg	-	-	-
Biphenyl (1,1-Biphenyl)	ug/kg	-	-	-
bis(2-Chloroethoxy)methane	ug/kg	-	-	-
bis(2-Chloroethyl)ether	ug/kg	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	-	-	-
Butyl benzylphthalate (BBP)	ug/kg	-	-	-
Caprolactam	ug/kg	-	-	-
Carbazole	ug/kg	-	-	-
Chrysene	ug/kg	-	-	-
Dibenz(a,h)anthracene	ug/kg	-	-	-
Dibenzofuran	ug/kg	-	-	-
Diethyl phthalate	ug/kg	-	-	-
Dimethyl phthalate	ug/kg	-	-	-

Table 15

Summary of Analytical Results
Soil/Fill Samples - EU18
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-105**	**SS-179-AS**	**SS-180-AS**
Sample ID:		**SS-38443-102618-JC-105**	**SS-38443-102618-JC-179**	**SS-38443-102618-JC-180**
Sample Date:		**10/26/2018**	**10/26/2018**	**10/26/2018**
Sample Depth:		**0-2 ft BGS**	**0-0.5 ft BGS**	**0.17-0.67 ft BGS**
Parameters	**Units**			
Di-n-butylphthalate (DBP)	ug/kg	-	-	-
Di-n-octyl phthalate (DnOP)	ug/kg	-	-	-
Fluoranthene	ug/kg	-	-	-
Fluorene	ug/kg	-	-	-
Hexachlorobenzene	ug/kg	-	-	-
Hexachlorobutadiene	ug/kg	-	-	-
Hexachlorocyclopentadiene	ug/kg	-	-	-
Hexachloroethane	ug/kg	-	-	-
Indeno(1,2,3-cd)pyrene	ug/kg	-	-	-
Isophorone	ug/kg	-	-	-
Naphthalene	ug/kg	-	-	-
Nitrobenzene	ug/kg	-	-	-
N-Nitrosodi-n-propylamine	ug/kg	-	-	-
N-Nitrosodiphenylamine	ug/kg	-	-	-
Pentachlorophenol	ug/kg	-	-	-
Phenanthrene	ug/kg	-	-	-
Phenol	ug/kg	-	-	-
Pyrene	ug/kg	-	-	-
Metals				
Aluminum	mg/kg	-	-	-
Antimony	mg/kg	-	-	-
Arsenic	mg/kg	-	-	-
Barium	mg/kg	-	-	-
Beryllium	mg/kg	-	-	-
Cadmium	mg/kg	-	-	-
Calcium	mg/kg	-	-	-
Chromium	mg/kg	-	-	-
Chromium III (trivalent)	mg/kg	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-
Cobalt	mg/kg	-	-	-
Copper	mg/kg	-	-	-
Iron	mg/kg	-	-	-
Lead	mg/kg	-	-	-
Lead - coarse fraction	mg/kg	-	-	-
Lead - fine fraction	mg/kg	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-
Magnesium	mg/kg	-	-	-
Manganese	mg/kg	-	-	-
Mercury	mg/kg	-	-	-
Nickel	mg/kg	-	-	-
Potassium	mg/kg	-	-	-
Selenium	mg/kg	-	-	-
Silver	mg/kg	-	-	-
Sodium	mg/kg	-	-	-
Thallium	mg/kg	-	-	-
Vanadium	mg/kg	-	-	-
Zinc	mg/kg	-	-	-

Table 15

Summary of Analytical Results
Soil/Fill Samples - EU18
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-105**	**SS-179-AS**	**SS-180-AS**
Sample ID:		**SS-38443-102618-JC-105**	**SS-38443-102618-JC-179**	**SS-38443-102618-JC-180**
Sample Date:		**10/26/2018**	**10/26/2018**	**10/26/2018**
Sample Depth:		**0-2 ft BGS**	**0-0.5 ft BGS**	**0.17-0.67 ft BGS**
Parameters	**Units**			
PCBs				
Aroclor-1016 (PCB-1016)	ug/kg	-	-	-
Aroclor-1221 (PCB-1221)	ug/kg	-	-	-
Aroclor-1232 (PCB-1232)	ug/kg	-	-	-
Aroclor-1242 (PCB-1242)	ug/kg	-	-	-
Aroclor-1248 (PCB-1248)	ug/kg	-	-	-
Aroclor-1254 (PCB-1254)	ug/kg	-	-	-
Aroclor-1260 (PCB-1260)	ug/kg	-	-	-
Pesticides				
4,4'-DDD	ug/kg	-	-	-
4,4'-DDE	ug/kg	-	-	-
4,4'-DDT	ug/kg	-	-	-
Aldrin	ug/kg	-	-	-
alpha-BHC	ug/kg	-	-	-
alpha-Chlordane	ug/kg	-	-	-
beta-BHC	ug/kg	-	-	-
delta-BHC	ug/kg	-	-	-
Dieldrin	ug/kg	-	-	-
Endosulfan I	ug/kg	-	-	-
Endosulfan II	ug/kg	-	-	-
Endosulfan sulfate	ug/kg	-	-	-
Endrin	ug/kg	-	-	-
Endrin aldehyde	ug/kg	-	-	-
Endrin ketone	ug/kg	-	-	-
gamma-BHC (lindane)	ug/kg	-	-	-
gamma-Chlordane	ug/kg	-	-	-
Heptachlor	ug/kg	-	-	-
Heptachlor epoxide	ug/kg	-	-	-
Methoxychlor	ug/kg	-	-	-
Toxaphene	ug/kg	-	-	-
Herbicides				
2,4,5-T	ug/kg	21 U	-	-
2,4,5-TP (Silvex)	ug/kg	23 U	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	81 U	-	-
Dioxin/Furans				
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-

Table 15

Summary of Analytical Results
Soil/Fill Samples - EU18
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-105**	**SS-179-AS**	**SS-180-AS**
Sample ID:		**SS-38443-102618-JC-105**	**SS-38443-102618-JC-179**	**SS-38443-102618-JC-180**
Sample Date:		**10/26/2018**	**10/26/2018**	**10/26/2018**
Sample Depth:		**0-2 ft BGS**	**0-0.5 ft BGS**	**0.17-0.67 ft BGS**
Parameters	**Units**			
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-
Asbestos				
Asbestos	%	-	ND	-
Chrysotile asbestos	%	-	-	0.25 <
General Chemistry				
Cyanide (total)	mg/kg	-	-	-
Soot carbon	mg/kg	-	-	-
Total organic carbon (TOC)	mg/kg	-	-	-

Notes
< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
E - Estimated because of the presence of interference (Inorganics).
J - Estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH75-13**	**BH75-13**	**BH76-13**	**BH76-13**	**BH77-13**	**BH79-13**	**BH79-13**
Sample ID:		**S-38443-062513-JT-045**	**S-38443-062513-JT-046**	**S-38443-062513-JC-052**	**S-38443-062513-JC-053**	**S-38443-062513-JT-047**	**S-38443-062613-JC-056**	**S-38443-062613-JC-057**
Sample Date:		**6/25/2013**	**6/25/2013**	**6/25/2013**	**6/25/2013**	**6/25/2013**	**6/26/2013**	**6/26/2013**
Sample Depth:		**0-2 ft BGS**	**20-22 ft BGS**	**8-10 ft BGS**	**18-20 ft BGS**	**20-22 ft BGS**	**4-6 ft BGS**	**21-23 ft BGS**
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/kg	970 U	4.5 U	260 U	11 U	290 U	280 U	4.3 U
1,1,2,2-Tetrachloroethane	ug/kg	970 U	4.5 U	260 U	11 UJ	290 U	280 U	R
1,1,2-Trichloroethane	ug/kg	970 U	4.5 U	260 U	11 U	290 U	280 U	4.3 U
1,1-Dichloroethane	ug/kg	560 J	4.5 U	260 U	1.3 J	290 U	280 U	4.3 U
1,1-Dichloroethene	ug/kg	970 U	4.5 U	260 U	11 U	290 U	280 U	4.3 U
1,2,4-Trichlorobenzene	ug/kg	970 U	4.5 U	260 U	11 UJ	130 J	280 U	R
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	1900 U	9.0 U	520 U	23 UJ	580 U	560 U	R
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	970 U	4.5 U	260 U	11 U	290 U	280 U	4.3 U
1,2-Dichlorobenzene	ug/kg	970 U	4.5 U	260 U	11 UJ	290 U	280 U	6.9 J
1,2-Dichloroethane	ug/kg	970 U	4.5 U	260 U	11 U	290 U	280 U	4.3 U
1,2-Dichloroethene (total)	ug/kg	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/kg	970 U	4.5 U	260 U	11 U	290 U	280 U	4.3 U
1,3-Dichlorobenzene	ug/kg	970 U	4.5 U	260 U	11 UJ	180 J	23 J	1.7 J
1,4-Dichlorobenzene	ug/kg	970 U	4.5 U	260 U	11 UJ	2900	280 U	18 J
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	3900 U	3.8 J	1000 U	45 U	1200 U	1100 U	3.7 J
2-Hexanone	ug/kg	3900 U	18 U	1000 U	45 U	1200 U	1100 U	17 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	3900 U	1.0 J	100 J	45 U	1200 U	1100 U	17 U
Acetone	ug/kg	6300 U	26 UJ	1400 U	61 UJ	1900 U	1100 U	27 U
Benzene	ug/kg	200 J	0.78 J	260 U	11 U	320	280 U	4.3 U
Bromodichloromethane	ug/kg	970 U	4.5 U	260 U	11 U	290 U	280 U	4.3 U
Bromoform	ug/kg	970 U	4.5 U	260 U	11 U	290 U	280 U	4.3 U
Bromomethane (Methyl bromide)	ug/kg	970 UJ	4.5 UJ	260 UJ	11 UJ	290 UJ	280 UJ	4.3 U
Carbon disulfide	ug/kg	970 U	4.5 U	260 U	11 U	290 U	18 J	1.4 J
Carbon tetrachloride	ug/kg	970 U	4.5 U	260 U	11 U	290 U	280 U	4.3 U
Chlorobenzene	ug/kg	630 J	2.7 J	260 U	11 U	1400	280 U	56
Chloroethane	ug/kg	970 UJ	4.5 UJ	260 UJ	63 J	290 UJ	280 UJ	4.3 U
Chloroform (Trichloromethane)	ug/kg	970 U	4.5 U	260 U	11 U	290 U	280 U	4.3 U
Chloromethane (Methyl chloride)	ug/kg	970 U	4.5 U	260 U	11 U	290 U	280 U	4.3 U
cis-1,2-Dichloroethene	ug/kg	970 U	4.5 U	260 U	11 U	290 U	280 U	4.3 U
cis-1,3-Dichloropropene	ug/kg	970 U	4.5 U	260 U	11 U	290 U	280 U	4.3 U
Cyclohexane	ug/kg	1900 U	0.38 J	520 U	23 U	580 U	560 U	1.5 J
Dibromochloromethane	ug/kg	970 U	4.5 U	260 U	11 U	290 U	280 U	4.3 U
Dichlorodifluoromethane (CFC-12)	ug/kg	R	4.5 U	R	11 U	R	280 U	4.3 U
Ethylbenzene	ug/kg	1400	0.34 J	38 J	11 U	54 J	93 J	0.69 J
Isopropyl benzene	ug/kg	790 J	4.5 U	18 J	11 U	1000	88 J	0.71 J
Methyl acetate	ug/kg	110 J	9.0 U	68 J	23 U	230 J	190 J	8.7 U
Methyl cyclohexane	ug/kg	530 J	1.3 J	520 U	23 U	970	75 J	2.8 J
Methyl tert butyl ether (MTBE)	ug/kg	970 U	4.5 U	260 U	2.0 J	290 U	280 U	4.3 U
Methylene chloride	ug/kg	3100 U	14 J	870 U	33 J	960 U	310 U	9.3 U
Styrene	ug/kg	970 U	4.5 U	260 U	11 U	290 U	280 U	4.3 U
Tetrachloroethene	ug/kg	970 U	4.5 U	260 U	11 U	290 U	280 U	1.2 J
Toluene	ug/kg	1500	0.67 J	31 J	11 U	76 J	100 J	1.8 J
trans-1,2-Dichloroethene	ug/kg	970 U	4.5 U	260 U	11 U	290 U	280 U	4.3 U
trans-1,3-Dichloropropene	ug/kg	970 U	4.5 U	260 U	11 U	290 U	280 U	4.3 U
Trichloroethene	ug/kg	130 J	4.5 U	260 U	11 U	290 U	280 U	4.3 U
Trichlorofluoromethane (CFC-11)	ug/kg	970 U	4.5 U	260 U	11 U	290 U	280 U	4.3 U
Trifluorotrichloroethane (CFC-113)	ug/kg	970 U	4.5 U	260 U	11 U	290 U	280 U	4.3 U

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH75-13**	**BH75-13**	**BH76-13**	**BH76-13**	**BH77-13**	**BH79-13**	**BH79-13**
Sample ID:		**S-38443-062513-JT-045**	**S-38443-062513-JT-046**	**S-38443-062513-JC-052**	**S-38443-062513-JC-053**	**S-38443-062513-JT-047**	**S-38443-062613-JC-056**	**S-38443-062613-JC-057**
Sample Date:		**6/25/2013**	**6/25/2013**	**6/25/2013**	**6/25/2013**	**6/25/2013**	**6/26/2013**	**6/26/2013**
Sample Depth:		**0-2 ft BGS**	**20-22 ft BGS**	**8-10 ft BGS**	**18-20 ft BGS**	**20-22 ft BGS**	**4-6 ft BGS**	**21-23 ft BGS**
Parameters	**Units**							
Vinyl chloride	ug/kg	970 U	4.5 U	260 U	11 U	290 U	280 U	4.3 U
Xylenes (total)	ug/kg	8100	9.0 U	130 J	23 U	280 J	200 J	1.9 J
Semi-Volatiles								
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	ug/kg	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	ug/kg	-	-	-	-	-	-	-
2,4-Dichlorophenol	ug/kg	-	-	-	-	-	-	-
2,4-Dimethylphenol	ug/kg	-	-	-	-	-	-	-
2,4-Dinitrophenol	ug/kg	-	-	-	-	-	-	-
2,4-Dinitrotoluene	ug/kg	-	-	-	-	-	-	-
2,6-Dinitrotoluene	ug/kg	-	-	-	-	-	-	-
2-Chloronaphthalene	ug/kg	-	-	-	-	-	-	-
2-Chlorophenol	ug/kg	-	-	-	-	-	-	-
2-Methylnaphthalene	ug/kg	-	-	-	-	-	-	-
2-Methylphenol	ug/kg	-	-	-	-	-	-	-
2-Nitroaniline	ug/kg	-	-	-	-	-	-	-
2-Nitrophenol	ug/kg	-	-	-	-	-	-	-
3&4-Methylphenol	ug/kg	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/kg	-	-	-	-	-	-	-
3-Nitroaniline	ug/kg	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	ug/kg	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	ug/kg	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	ug/kg	-	-	-	-	-	-	-
4-Chloroaniline	ug/kg	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	ug/kg	-	-	-	-	-	-	-
4-Methylphenol	ug/kg	-	-	-	-	-	-	-
4-Nitroaniline	ug/kg	-	-	-	-	-	-	-
4-Nitrophenol	ug/kg	-	-	-	-	-	-	-
Acenaphthene	ug/kg	-	-	-	-	-	-	-
Acenaphthylene	ug/kg	-	-	-	-	-	-	-
Acetophenone	ug/kg	-	-	-	-	-	-	-
Anthracene	ug/kg	-	-	-	-	-	-	-
Atrazine	ug/kg	-	-	-	-	-	-	-
Benzaldehyde	ug/kg	-	-	-	-	-	-	-
Benzo(a)anthracene	ug/kg	-	-	-	-	-	-	-
Benzo(a)pyrene	ug/kg	-	-	-	-	-	-	-
Benzo(b)fluoranthene	ug/kg	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	ug/kg	-	-	-	-	-	-	-
Benzo(k)fluoranthene	ug/kg	-	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	ug/kg	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	ug/kg	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	ug/kg	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	ug/kg	-	-	-	-	-	-	-
Caprolactam	ug/kg	-	-	-	-	-	-	-
Carbazole	ug/kg	-	-	-	-	-	-	-
Chrysene	ug/kg	-	-	-	-	-	-	-

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH75-13**	**BH75-13**	**BH76-13**	**BH76-13**	**BH77-13**	**BH79-13**	**BH79-13**
Sample ID:		**S-38443-062513-JT-045**	**S-38443-062513-JT-046**	**S-38443-062513-JC-052**	**S-38443-062513-JC-053**	**S-38443-062513-JT-047**	**S-38443-062613-JC-056**	**S-38443-062613-JC-057**
Sample Date:		**6/25/2013**	**6/25/2013**	**6/25/2013**	**6/25/2013**	**6/25/2013**	**6/26/2013**	**6/26/2013**
Sample Depth:		**0-2 ft BGS**	**20-22 ft BGS**	**8-10 ft BGS**	**18-20 ft BGS**	**20-22 ft BGS**	**4-6 ft BGS**	**21-23 ft BGS**
Parameters	**Units**							
Dibenz(a,h)anthracene	ug/kg	-	-	-	-	-	-	-
Dibenzofuran	ug/kg	-	-	-	-	-	-	-
Diethyl phthalate	ug/kg	-	-	-	-	-	-	-
Dimethyl phthalate	ug/kg	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	ug/kg	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	ug/kg	-	-	-	-	-	-	-
Fluoranthene	ug/kg	-	-	-	-	-	-	-
Fluorene	ug/kg	-	-	-	-	-	-	-
Hexachlorobenzene	ug/kg	-	-	-	-	-	-	-
Hexachlorobutadiene	ug/kg	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	ug/kg	-	-	-	-	-	-	-
Hexachloroethane	ug/kg	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/kg	-	-	-	-	-	-	-
Isophorone	ug/kg	-	-	-	-	-	-	-
Naphthalene	ug/kg	-	-	-	-	-	-	-
Nitrobenzene	ug/kg	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	ug/kg	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	ug/kg	-	-	-	-	-	-	-
Pentachlorophenol	ug/kg	-	-	-	-	-	-	-
Phenanthrene	ug/kg	-	-	-	-	-	-	-
Phenol	ug/kg	-	-	-	-	-	-	-
Pyrene	ug/kg	-	-	-	-	-	-	-
Metals								
Aluminum	mg/kg	-	-	-	-	-	-	-
Antimony	mg/kg	-	-	-	-	-	-	-
Arsenic	mg/kg	-	-	-	-	-	-	-
Barium	mg/kg	-	-	-	-	-	-	-
Beryllium	mg/kg	-	-	-	-	-	-	-
Cadmium	mg/kg	-	-	-	-	-	-	-
Calcium	mg/kg	-	-	-	-	-	-	-
Chromium	mg/kg	-	-	-	-	-	-	-
Chromium III (trivalent)	mg/kg	-	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-	-
Cobalt	mg/kg	-	-	-	-	-	-	-
Copper	mg/kg	-	-	-	-	-	-	-
Iron	mg/kg	-	-	-	-	-	-	-
Lead	mg/kg	-	-	-	-	-	-	-
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-
Magnesium	mg/kg	-	-	-	-	-	-	-

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH75-13**	**BH75-13**	**BH76-13**	**BH76-13**	**BH77-13**	**BH79-13**	**BH79-13**
Sample ID:		**S-38443-062513-JT-045**	**S-38443-062513-JT-046**	**S-38443-062513-JC-052**	**S-38443-062513-JC-053**	**S-38443-062513-JT-047**	**S-38443-062613-JC-056**	**S-38443-062613-JC-057**
Sample Date:		**6/25/2013**	**6/25/2013**	**6/25/2013**	**6/25/2013**	**6/25/2013**	**6/26/2013**	**6/26/2013**
Sample Depth:		**0-2 ft BGS**	**20-22 ft BGS**	**8-10 ft BGS**	**18-20 ft BGS**	**20-22 ft BGS**	**4-6 ft BGS**	**21-23 ft BGS**
Parameters	**Units**							
Manganese	mg/kg	-	-	-	-	-	-	-
Mercury	mg/kg	-	-	-	-	-	-	-
Nickel	mg/kg	-	-	-	-	-	-	-
Potassium	mg/kg	-	-	-	-	-	-	-
Selenium	mg/kg	-	-	-	-	-	-	-
Silver	mg/kg	-	-	-	-	-	-	-
Sodium	mg/kg	-	-	-	-	-	-	-
Thallium	mg/kg	-	-	-	-	-	-	-
Vanadium	mg/kg	-	-	-	-	-	-	-
Zinc	mg/kg	-	-	-	-	-	-	-
PCBs								
Aroclor-1016 (PCB-1016)	ug/kg	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	ug/kg	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	ug/kg	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	ug/kg	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/kg	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/kg	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/kg	-	-	-	-	-	-	-
Pesticides								
4,4'-DDD	ug/kg	-	-	-	-	-	-	-
4,4'-DDE	ug/kg	-	-	-	-	-	-	-
4,4'-DDT	ug/kg	-	-	-	-	-	-	-
Aldrin	ug/kg	-	-	-	-	-	-	-
alpha-BHC	ug/kg	-	-	-	-	-	-	-
alpha-Chlordane	ug/kg	-	-	-	-	-	-	-
beta-BHC	ug/kg	-	-	-	-	-	-	-
delta-BHC	ug/kg	-	-	-	-	-	-	-
Dieldrin	ug/kg	-	-	-	-	-	-	-
Endosulfan I	ug/kg	-	-	-	-	-	-	-
Endosulfan II	ug/kg	-	-	-	-	-	-	-
Endosulfan sulfate	ug/kg	-	-	-	-	-	-	-
Endrin	ug/kg	-	-	-	-	-	-	-
Endrin aldehyde	ug/kg	-	-	-	-	-	-	-
Endrin ketone	ug/kg	-	-	-	-	-	-	-
gamma-BHC (lindane)	ug/kg	-	-	-	-	-	-	-
gamma-Chlordane	ug/kg	-	-	-	-	-	-	-
Heptachlor	ug/kg	-	-	-	-	-	-	-
Heptachlor epoxide	ug/kg	-	-	-	-	-	-	-
Methoxychlor	ug/kg	-	-	-	-	-	-	-
Toxaphene	ug/kg	-	-	-	-	-	-	-
Herbicides								
2,4,5-T	ug/kg	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/kg	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	-	-	-	-	-	-	-

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH75-13**	**BH75-13**	**BH76-13**	**BH76-13**	**BH77-13**	**BH79-13**	**BH79-13**
Sample ID:		**S-38443-062513-JT-045**	**S-38443-062513-JT-046**	**S-38443-062513-JC-052**	**S-38443-062513-JC-053**	**S-38443-062513-JT-047**	**S-38443-062613-JC-056**	**S-38443-062613-JC-057**
Sample Date:		**6/25/2013**	**6/25/2013**	**6/25/2013**	**6/25/2013**	**6/25/2013**	**6/26/2013**	**6/26/2013**
Sample Depth:		**0-2 ft BGS**	**20-22 ft BGS**	**8-10 ft BGS**	**18-20 ft BGS**	**20-22 ft BGS**	**4-6 ft BGS**	**21-23 ft BGS**
Parameters	**Units**							
Dioxin/Furans								
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Asbestos								
Asbestos	%	-	-	-	-	-	-	-
Chrysotile asbestos	%	-	-	-	-	-	-	-
Geotechnical								
Coarse sand	%	-	-	-	-	-	-	-
Fine sand	%	-	-	-	-	-	-	-
Fines	%	-	-	-	-	-	-	-
Gravel	%	-	-	-	-	-	-	-
Medium sand	%	-	-	-	-	-	-	-
Sand	%	-	-	-	-	-	-	-
Sieve, #4	% passed	-	-	-	-	-	-	-
Sieve, #10	% passed	-	-	-	-	-	-	-
Sieve, #20	% passed	-	-	-	-	-	-	-
Sieve, #40	% passed	-	-	-	-	-	-	-
Sieve, #60	% passed	-	-	-	-	-	-	-
Sieve, #80	% passed	-	-	-	-	-	-	-
Sieve, #100	% passed	-	-	-	-	-	-	-
Sieve, #200	% passed	-	-	-	-	-	-	-
Sieve, 0.375 inch	% passed	-	-	-	-	-	-	-

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH75-13**	**BH75-13**	**BH76-13**	**BH76-13**	**BH77-13**	**BH79-13**	**BH79-13**
Sample ID:		**S-38443-062513-JT-045**	**S-38443-062513-JT-046**	**S-38443-062513-JC-052**	**S-38443-062513-JC-053**	**S-38443-062513-JT-047**	**S-38443-062613-JC-056**	**S-38443-062613-JC-057**
Sample Date:		**6/25/2013**	**6/25/2013**	**6/25/2013**	**6/25/2013**	**6/25/2013**	**6/26/2013**	**6/26/2013**
Sample Depth:		**0-2 ft BGS**	**20-22 ft BGS**	**8-10 ft BGS**	**18-20 ft BGS**	**20-22 ft BGS**	**4-6 ft BGS**	**21-23 ft BGS**
Parameters	**Units**							
Sieve, 0.75 inch	% passed	-	-	-	-	-	-	-
Sieve, 1 inch	% passed	-	-	-	-	-	-	-
Sieve, 1.5 inch	% passed	-	-	-	-	-	-	-
Sieve, 2 inch	% passed	-	-	-	-	-	-	-
Sieve, 3 inch	% passed	-	-	-	-	-	-	-
General Chemistry								
Cyanide (total)	mg/kg	-	-	-	-	-	-	-
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-

Notes
< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
D - Compounds at secondary dilution factor.
E - Estimated because of the presence of interference (Inorganics).
E - Exceed calibration range of GC/MS instrument (Organics).
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%. The
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH82-13**	**BH85-13**	**BH85-13**	**BH86-13**	**BH87-13**	**BH87-13**	**BH88-13**
Sample ID:		**S-38443-062413-JC-039**	**S-38443-062513-JC-040**	**S-38443-062513-JC-051**	**S-38443-062413-JC-038**	**S-38443-062613-JC-058**	**S-38443-062613-JC-059**	**S-38443-062413-JC-037**
Sample Date:		**6/24/2013**	**6/25/2013**	**6/25/2013**	**6/24/2013**	**6/26/2013**	**6/26/2013**	**6/24/2013**
Sample Depth:		**19-21 ft BGS**	**8-10 ft BGS**	**18-20 ft BGS**	**22.5-24.5 ft BGS**	**18-20 ft BGS**	**18-20 ft BGS**	**18-20 ft BGS**
							Duplicate	
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/kg	14 UJ	460 U	4.6 U	5.1 U	430 U	11 UJ	12 U
1,1,2,2-Tetrachloroethane	ug/kg	R	460 U	4.6 U	5.1 U	430 U	R	R
1,1,2-Trichloroethane	ug/kg	R	460 U	4.6 U	5.1 U	430 U	11 UJ	12 UJ
1,1-Dichloroethane	ug/kg	14 UJ	460 U	4.6 U	5.1 U	430 U	17 J	12 U
1,1-Dichloroethene	ug/kg	14 UJ	460 U	4.6 U	5.1 U	430 U	11 UJ	12 U
1,2,4-Trichlorobenzene	ug/kg	R	460 U	4.6 U	5.1 U	430 U	R	R
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	R	910 U	9.3 U	10 U	870 UJ	R	R
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	R	460 U	4.6 U	5.1 U	430 U	11 UJ	12 U
1,2-Dichlorobenzene	ug/kg	R	460 U	4.6 U	5.1 U	430 U	R	R
1,2-Dichloroethane	ug/kg	14 UJ	460 U	4.6 U	5.1 U	430 U	11 UJ	12 U
1,2-Dichloroethene (total)	ug/kg	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/kg	14 UJ	460 U	4.6 U	5.1 U	430 U	11 UJ	12 U
1,3-Dichlorobenzene	ug/kg	4.0 J	460 U	4.6 U	5.1 U	430 U	R	0.89 J
1,4-Dichlorobenzene	ug/kg	R	460 U	4.6 U	5.1 U	430 U	R	R
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	19 J	1800 U	19 U	12 J	1700 U	43 UJ	47 U
2-Hexanone	ug/kg	R	1800 U	19 U	20 U	1700 U	43 UJ	47 UJ
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	56 J	1800 U	19 U	20 U	1700 U	43 UJ	47 UJ
Acetone	ug/kg	210 UJ	2200 U	23 U	88 U	1700 U	43 UJ	92 U
Benzene	ug/kg	14 UJ	460 U	4.6 U	5.1 U	430 U	11 UJ	12 U
Bromodichloromethane	ug/kg	R	460 U	4.6 U	5.1 U	430 U	11 UJ	12 U
Bromoform	ug/kg	R	460 U	4.6 U	5.1 U	430 U	11 UJ	12 UJ
Bromomethane (Methyl bromide)	ug/kg	14 UJ	460 UJ	4.6 UJ	5.1 UJ	430 U	11 UJ	12 UJ
Carbon disulfide	ug/kg	2.9 J	460 U	4.6 U	3.2 J	430 U	11 UJ	12 U
Carbon tetrachloride	ug/kg	14 UJ	460 U	4.6 U	5.1 U	430 U	11 UJ	12 U
Chlorobenzene	ug/kg	R	460 U	4.6 U	5.1 U	430 U	11 UJ	12 UJ
Chloroethane	ug/kg	14 UJ	460 UJ	4.6 UJ	5.1 UJ	430 U	19 J	12 UJ
Chloroform (Trichloromethane)	ug/kg	14 UJ	460 U	4.6 U	5.1 U	430 U	11 UJ	12 U
Chloromethane (Methyl chloride)	ug/kg	14 UJ	460 U	4.6 U	5.1 U	430 U	11 UJ	12 U
cis-1,2-Dichloroethene	ug/kg	14 UJ	460 U	4.6 U	5.1 U	430 U	11 UJ	12 U
cis-1,3-Dichloropropene	ug/kg	14 UJ	460 U	4.6 U	5.1 U	430 U	11 UJ	12 U
Cyclohexane	ug/kg	27 UJ	910 U	9.3 U	10 U	870 U	4.8 J	24 U
Dibromochloromethane	ug/kg	R	460 U	4.6 U	5.1 U	430 U	11 UJ	12 UJ
Dichlorodifluoromethane (CFC-12)	ug/kg	14 UJ	R	4.6 U	5.1 U	430 U	11 UJ	12 U
Ethylbenzene	ug/kg	R	29 J	4.6 U	5.1 U	430 U	11 UJ	12 UJ
Isopropyl benzene	ug/kg	R	210 J	4.6 U	0.27 J	430 U	11 UJ	12 UJ
Methyl acetate	ug/kg	27 UJ	910 U	9.3 U	10 U	56 J	22 UJ	24 U
Methyl cyclohexane	ug/kg	1.5 J	910 U	0.42 J	10 U	870 U	4.1 J	24 U
Methyl tert butyl ether (MTBE)	ug/kg	14 UJ	460 U	4.6 U	5.1 U	430 U	11 UJ	12 U
Methylene chloride	ug/kg	160 UJ	1300 U	9.6 U	19 U	750 U	34 UJ	48 U
Styrene	ug/kg	R	460 U	4.6 U	5.1 U	430 U	11 UJ	12 UJ
Tetrachloroethene	ug/kg	R	460 U	4.6 U	5.1 U	430 U	11 UJ	12 UJ
Toluene	ug/kg	R	74 J	4.6 U	5.1 U	430 U	11 UJ	12 UJ
trans-1,2-Dichloroethene	ug/kg	14 UJ	460 U	4.6 U	5.1 U	430 U	11 UJ	12 U
trans-1,3-Dichloropropene	ug/kg	R	460 U	4.6 U	5.1 U	430 U	11 UJ	12 UJ
Trichloroethene	ug/kg	14 UJ	460 U	4.6 U	5.1 U	430 U	11 UJ	12 U
Trichlorofluoromethane (CFC-11)	ug/kg	14 UJ	460 U	4.6 U	5.1 U	430 U	11 UJ	12 U
Trifluorotrichloroethane (CFC-113)	ug/kg	14 UJ	460 U	4.6 U	5.1 U	430 U	11 UJ	12 U

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH82-13**	**BH85-13**	**BH85-13**	**BH86-13**	**BH87-13**	**BH87-13**	**BH88-13**
Sample ID:		**S-38443-062413-JC-039**	**S-38443-062513-JC-040**	**S-38443-062513-JC-051**	**S-38443-062413-JC-038**	**S-38443-062613-JC-058**	**S-38443-062613-JC-059**	**S-38443-062413-JC-037**
Sample Date:		**6/24/2013**	**6/25/2013**	**6/25/2013**	**6/24/2013**	**6/26/2013**	**6/26/2013**	**6/24/2013**
Sample Depth:		**19-21 ft BGS**	**8-10 ft BGS**	**18-20 ft BGS**	**22.5-24.5 ft BGS**	**18-20 ft BGS**	**18-20 ft BGS**	**18-20 ft BGS**
							Duplicate	
Parameters	**Units**							
Vinyl chloride	ug/kg	59 J	460 U	4.6 U	5.1 U	430 U	18 J	12 U
Xylenes (total)	ug/kg	R	120 J	9.3 U	10 U	870 U	22 UJ	24 UJ
Semi-Volatiles								
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	ug/kg	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	ug/kg	-	-	-	-	-	-	-
2,4-Dichlorophenol	ug/kg	-	-	-	-	-	-	-
2,4-Dimethylphenol	ug/kg	-	-	-	-	-	-	-
2,4-Dinitrophenol	ug/kg	-	-	-	-	-	-	-
2,4-Dinitrotoluene	ug/kg	-	-	-	-	-	-	-
2,6-Dinitrotoluene	ug/kg	-	-	-	-	-	-	-
2-Chloronaphthalene	ug/kg	-	-	-	-	-	-	-
2-Chlorophenol	ug/kg	-	-	-	-	-	-	-
2-Methylnaphthalene	ug/kg	-	-	-	-	-	-	-
2-Methylphenol	ug/kg	-	-	-	-	-	-	-
2-Nitroaniline	ug/kg	-	-	-	-	-	-	-
2-Nitrophenol	ug/kg	-	-	-	-	-	-	-
3&4-Methylphenol	ug/kg	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/kg	-	-	-	-	-	-	-
3-Nitroaniline	ug/kg	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	ug/kg	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	ug/kg	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	ug/kg	-	-	-	-	-	-	-
4-Chloroaniline	ug/kg	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	ug/kg	-	-	-	-	-	-	-
4-Methylphenol	ug/kg	-	-	-	-	-	-	-
4-Nitroaniline	ug/kg	-	-	-	-	-	-	-
4-Nitrophenol	ug/kg	-	-	-	-	-	-	-
Acenaphthene	ug/kg	-	-	-	-	-	-	-
Acenaphthylene	ug/kg	-	-	-	-	-	-	-
Acetophenone	ug/kg	-	-	-	-	-	-	-
Anthracene	ug/kg	-	-	-	-	-	-	-
Atrazine	ug/kg	-	-	-	-	-	-	-
Benzaldehyde	ug/kg	-	-	-	-	-	-	-
Benzo(a)anthracene	ug/kg	-	-	-	-	-	-	-
Benzo(a)pyrene	ug/kg	-	-	-	-	-	-	-
Benzo(b)fluoranthene	ug/kg	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	ug/kg	-	-	-	-	-	-	-
Benzo(k)fluoranthene	ug/kg	-	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	ug/kg	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	ug/kg	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	ug/kg	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	ug/kg	-	-	-	-	-	-	-
Caprolactam	ug/kg	-	-	-	-	-	-	-
Carbazole	ug/kg	-	-	-	-	-	-	-
Chrysene	ug/kg	-	-	-	-	-	-	-

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH82-13**	**BH85-13**	**BH85-13**	**BH86-13**	**BH87-13**	**BH87-13**	**BH88-13**
Sample ID:		**S-38443-062413-JC-039**	**S-38443-062513-JC-040**	**S-38443-062513-JC-051**	**S-38443-062413-JC-038**	**S-38443-062613-JC-058**	**S-38443-062613-JC-059**	**S-38443-062413-JC-037**
Sample Date:		**6/24/2013**	**6/25/2013**	**6/25/2013**	**6/24/2013**	**6/26/2013**	**6/26/2013**	**6/24/2013**
Sample Depth:		**19-21 ft BGS**	**8-10 ft BGS**	**18-20 ft BGS**	**22.5-24.5 ft BGS**	**18-20 ft BGS**	**18-20 ft BGS**	**18-20 ft BGS**
							Duplicate	
Parameters	**Units**							
Dibenz(a,h)anthracene	ug/kg	-	-	-	-	-	-	-
Dibenzofuran	ug/kg	-	-	-	-	-	-	-
Diethyl phthalate	ug/kg	-	-	-	-	-	-	-
Dimethyl phthalate	ug/kg	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	ug/kg	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	ug/kg	-	-	-	-	-	-	-
Fluoranthene	ug/kg	-	-	-	-	-	-	-
Fluorene	ug/kg	-	-	-	-	-	-	-
Hexachlorobenzene	ug/kg	-	-	-	-	-	-	-
Hexachlorobutadiene	ug/kg	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	ug/kg	-	-	-	-	-	-	-
Hexachloroethane	ug/kg	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/kg	-	-	-	-	-	-	-
Isophorone	ug/kg	-	-	-	-	-	-	-
Naphthalene	ug/kg	-	-	-	-	-	-	-
Nitrobenzene	ug/kg	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	ug/kg	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	ug/kg	-	-	-	-	-	-	-
Pentachlorophenol	ug/kg	-	-	-	-	-	-	-
Phenanthrene	ug/kg	-	-	-	-	-	-	-
Phenol	ug/kg	-	-	-	-	-	-	-
Pyrene	ug/kg	-	-	-	-	-	-	-
Metals								
Aluminum	mg/kg	-	-	-	-	-	-	-
Antimony	mg/kg	-	-	-	-	-	-	-
Arsenic	mg/kg	-	-	-	-	-	-	-
Barium	mg/kg	-	-	-	-	-	-	-
Beryllium	mg/kg	-	-	-	-	-	-	-
Cadmium	mg/kg	-	-	-	-	-	-	-
Calcium	mg/kg	-	-	-	-	-	-	-
Chromium	mg/kg	-	-	-	-	-	-	-
Chromium III (trivalent)	mg/kg	-	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-	-
Cobalt	mg/kg	-	-	-	-	-	-	-
Copper	mg/kg	-	-	-	-	-	-	-
Iron	mg/kg	-	-	-	-	-	-	-
Lead	mg/kg	-	-	-	-	-	-	-
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-
Magnesium	mg/kg	-	-	-	-	-	-	-

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH82-13**	**BH85-13**	**BH85-13**	**BH86-13**	**BH87-13**	**BH87-13**	**BH88-13**
Sample ID:		**S-38443-062413-JC-039**	**S-38443-062513-JC-040**	**S-38443-062513-JC-051**	**S-38443-062413-JC-038**	**S-38443-062613-JC-058**	**S-38443-062613-JC-059**	**S-38443-062413-JC-037**
Sample Date:		**6/24/2013**	**6/25/2013**	**6/25/2013**	**6/24/2013**	**6/26/2013**	**6/26/2013**	**6/24/2013**
Sample Depth:		**19-21 ft BGS**	**8-10 ft BGS**	**18-20 ft BGS**	**22.5-24.5 ft BGS**	**18-20 ft BGS**	**18-20 ft BGS**	**18-20 ft BGS**
							Duplicate	
Parameters	**Units**							
Manganese	mg/kg	-	-	-	-	-	-	-
Mercury	mg/kg	-	-	-	-	-	-	-
Nickel	mg/kg	-	-	-	-	-	-	-
Potassium	mg/kg	-	-	-	-	-	-	-
Selenium	mg/kg	-	-	-	-	-	-	-
Silver	mg/kg	-	-	-	-	-	-	-
Sodium	mg/kg	-	-	-	-	-	-	-
Thallium	mg/kg	-	-	-	-	-	-	-
Vanadium	mg/kg	-	-	-	-	-	-	-
Zinc	mg/kg	-	-	-	-	-	-	-
PCBs								
Aroclor-1016 (PCB-1016)	ug/kg	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	ug/kg	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	ug/kg	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	ug/kg	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/kg	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/kg	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/kg	-	-	-	-	-	-	-
Pesticides								
4,4'-DDD	ug/kg	-	-	-	-	-	-	-
4,4'-DDE	ug/kg	-	-	-	-	-	-	-
4,4'-DDT	ug/kg	-	-	-	-	-	-	-
Aldrin	ug/kg	-	-	-	-	-	-	-
alpha-BHC	ug/kg	-	-	-	-	-	-	-
alpha-Chlordane	ug/kg	-	-	-	-	-	-	-
beta-BHC	ug/kg	-	-	-	-	-	-	-
delta-BHC	ug/kg	-	-	-	-	-	-	-
Dieldrin	ug/kg	-	-	-	-	-	-	-
Endosulfan I	ug/kg	-	-	-	-	-	-	-
Endosulfan II	ug/kg	-	-	-	-	-	-	-
Endosulfan sulfate	ug/kg	-	-	-	-	-	-	-
Endrin	ug/kg	-	-	-	-	-	-	-
Endrin aldehyde	ug/kg	-	-	-	-	-	-	-
Endrin ketone	ug/kg	-	-	-	-	-	-	-
gamma-BHC (lindane)	ug/kg	-	-	-	-	-	-	-
gamma-Chlordane	ug/kg	-	-	-	-	-	-	-
Heptachlor	ug/kg	-	-	-	-	-	-	-
Heptachlor epoxide	ug/kg	-	-	-	-	-	-	-
Methoxychlor	ug/kg	-	-	-	-	-	-	-
Toxaphene	ug/kg	-	-	-	-	-	-	-
Herbicides								
2,4,5-T	ug/kg	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/kg	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	-	-	-	-	-	-	-

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH82-13**	**BH85-13**	**BH85-13**	**BH86-13**	**BH87-13**	**BH87-13**	**BH88-13**
Sample ID:		**S-38443-062413-JC-039**	**S-38443-062513-JC-040**	**S-38443-062513-JC-051**	**S-38443-062413-JC-038**	**S-38443-062613-JC-058**	**S-38443-062613-JC-059**	**S-38443-062413-JC-037**
Sample Date:		**6/24/2013**	**6/25/2013**	**6/25/2013**	**6/24/2013**	**6/26/2013**	**6/26/2013**	**6/24/2013**
Sample Depth:		**19-21 ft BGS**	**8-10 ft BGS**	**18-20 ft BGS**	**22.5-24.5 ft BGS**	**18-20 ft BGS**	**18-20 ft BGS**	**18-20 ft BGS**
							Duplicate	
Parameters	**Units**							
Dioxin/Furans								
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Asbestos								
Asbestos	%	-	-	-	-	-	-	-
Chrysotile asbestos	%	-	-	-	-	-	-	-
Geotechnical								
Coarse sand	%	-	-	-	-	-	-	-
Fine sand	%	-	-	-	-	-	-	-
Fines	%	-	-	-	-	-	-	-
Gravel	%	-	-	-	-	-	-	-
Medium sand	%	-	-	-	-	-	-	-
Sand	%	-	-	-	-	-	-	-
Sieve, #4	% passed	-	-	-	-	-	-	-
Sieve, #10	% passed	-	-	-	-	-	-	-
Sieve, #20	% passed	-	-	-	-	-	-	-
Sieve, #40	% passed	-	-	-	-	-	-	-
Sieve, #60	% passed	-	-	-	-	-	-	-
Sieve, #80	% passed	-	-	-	-	-	-	-
Sieve, #100	% passed	-	-	-	-	-	-	-
Sieve, #200	% passed	-	-	-	-	-	-	-
Sieve, 0.375 inch	% passed	-	-	-	-	-	-	-

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH82-13**	**BH85-13**	**BH85-13**	**BH86-13**	**BH87-13**	**BH87-13**	**BH88-13**
Sample ID:		**S-38443-062413-JC-039**	**S-38443-062513-JC-040**	**S-38443-062513-JC-051**	**S-38443-062413-JC-038**	**S-38443-062613-JC-058**	**S-38443-062613-JC-059**	**S-38443-062413-JC-037**
Sample Date:		**6/24/2013**	**6/25/2013**	**6/25/2013**	**6/24/2013**	**6/26/2013**	**6/26/2013**	**6/24/2013**
Sample Depth:		**19-21 ft BGS**	**8-10 ft BGS**	**18-20 ft BGS**	**22.5-24.5 ft BGS**	**18-20 ft BGS**	**18-20 ft BGS**	**18-20 ft BGS**
							Duplicate	
Parameters	**Units**							
Sieve, 0.75 inch	% passed	-	-	-	-	-	-	-
Sieve, 1 inch	% passed	-	-	-	-	-	-	-
Sieve, 1.5 inch	% passed	-	-	-	-	-	-	-
Sieve, 2 inch	% passed	-	-	-	-	-	-	-
Sieve, 3 inch	% passed	-	-	-	-	-	-	-
General Chemistry								
Cyanide (total)	mg/kg	-	-	-	-	-	-	-
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-

Notes
< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
D - Compounds at secondary dilution factor.
E - Estimated because of the presence of interference (Inorganics).
E - Exceed calibration range of GC/MS instrument (Organics).
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%. The
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH90-13**	**BH91-13**	**BH92-13**	**BH92-13**	**BH93-13**	**BH94-17**	**BH95-17**
Sample ID:		**S-38443-070813-JL-088**	**S-38443-062713-JC-072**	**S-38443-070913-JC-089**	**S-38443-070913-JC-090**	**S-38443-062813-JC-073**	**S-38443-122017-JC-016**	**S-38443-121917-JC-015**
Sample Date:		**7/8/2013**	**6/27/2013**	**7/9/2013**	**7/9/2013**	**6/28/2013**	**12/20/2017**	**12/19/2017**
Sample Depth:		**26.5-28.5 ft BGS**	**23-25 ft BGS**	**18.8-20.8 ft BGS**	**18.8-20.8 ft BGS**	**13-15 ft BGS**	**13-14.8 ft BGS**	**5-7 ft BGS**
					Duplicate			
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/kg	1500	10 U	4.7 U	4.8 U	8.2 UJ	0.24 U	39 U
1,1,2,2-Tetrachloroethane	ug/kg	390 U	10 U	4.7 U	4.8 U	R	0.27 U	34 U
1,1,2-Trichloroethane	ug/kg	45 J	10 U	4.7 U	4.8 U	8.2 UJ	0.41 U	32 U
1,1-Dichloroethane	ug/kg	720	10 U	0.77 J	5.6 J	8.2 UJ	0.34 U	67 J
1,1-Dichloroethene	ug/kg	79 J	10 U	4.7 U	4.8 U	8.2 UJ	0.56 U	50 U
1,2,4-Trichlorobenzene	ug/kg	390 U	10 U	4.7 U	4.8 U	R	0.25 U	36 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	780 U	21 U	9.4 U	9.5 U	R	0.71 U	67 U
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	390 U	10 U	4.7 U	4.8 U	8.2 UJ	0.36 U	32 U
1,2-Dichlorobenzene	ug/kg	390 U	10 U	4.7 U	4.8 U	R	0.23 U	25 U
1,2-Dichloroethane	ug/kg	390 U	10 U	4.7 U	4.8 U	8.2 UJ	0.30 U	42 U
1,2-Dichloroethene (total)	ug/kg	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/kg	390 U	10 U	4.7 U	4.8 U	8.2 UJ	0.32 U	42 U
1,3-Dichlorobenzene	ug/kg	390 U	10 U	4.7 U	4.8 U	R	0.30 U	53 U
1,4-Dichlorobenzene	ug/kg	390 U	10 U	4.7 U	4.8 U	R	0.36 U	38 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	1600 U	3.0 J	19 U	19 U	33 UJ	11 U	76 J
2-Hexanone	ug/kg	1600 U	41 U	19 U	19 U	33 UJ	0.60 U	120 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	1600 U	41 U	0.52 J	19 U	33 UJ	0.93 U	240 J
Acetone	ug/kg	1600 U	41 U	19 U	19 U	33 UJ	58 U	360 U
Benzene	ug/kg	390 U	10 U	0.69 J	0.49 J	8.2 UJ	0.33 U	43 J
Bromodichloromethane	ug/kg	390 U	10 U	4.7 U	4.8 U	8.2 UJ	0.34 U	25 U
Bromoform	ug/kg	390 U	10 U	4.7 U	4.8 U	8.2 UJ	0.42 U	32 U
Bromomethane (Methyl bromide)	ug/kg	390 U	10 U	4.7 U	4.8 U	8.2 UJ	0.62 U	39 U
Carbon disulfide	ug/kg	24 J	10 U	4.7 U	4.8 U	8.2 UJ	2.0 J	25 U
Carbon tetrachloride	ug/kg	390 U	10 U	4.7 U	4.8 U	8.2 UJ	0.26 U	38 U
Chlorobenzene	ug/kg	750	10 U	0.66 J	15 J	8.2 UJ	0.34 U	2200
Chloroethane	ug/kg	390 U	10 U	2.3 J	1.4 J	8.2 UJ	0.40 U	39 U
Chloroform (Trichloromethane)	ug/kg	390 U	10 U	4.7 U	4.8 U	8.2 UJ	0.24 U	34 U
Chloromethane (Methyl chloride)	ug/kg	390 U	10 U	4.7 U	4.8 U	8.2 UJ	0.40 U	25 U
cis-1,2-Dichloroethene	ug/kg	1100	10 U	4.7 U	4.8 U	8.2 UJ	0.29 U	91 J
cis-1,3-Dichloropropene	ug/kg	390 U	10 U	4.7 U	4.8 U	8.2 UJ	0.27 U	32 U
Cyclohexane	ug/kg	780 U	21 U	0.37 J	0.31 J	16 UJ	0.22 U	42 U
Dibromochloromethane	ug/kg	390 U	10 U	4.7 U	4.8 U	8.2 UJ	0.31 U	47 U
Dichlorodifluoromethane (CFC-12)	ug/kg	R	10 U	4.7 U	4.8 U	8.2 UJ	0.36 U	31 U
Ethylbenzene	ug/kg	310 J	10 U	4.7 U	4.8 U	8.2 UJ	0.28 U	51 J
Isopropyl benzene	ug/kg	57 J	10 U	4.7 U	4.8 U	8.2 UJ	0.21 U	110 J
Methyl acetate	ug/kg	300 J	21 U	2.1 J	2.8 J	16 UJ	1.2 U	2400
Methyl cyclohexane	ug/kg	130 J	21 U	0.39 J	0.35 J	16 UJ	0.24 U	240 J
Methyl tert butyl ether (MTBE)	ug/kg	390 U	10 U	4.7 U	4.8 U	8.2 UJ	0.28 U	36 U
Methylene chloride	ug/kg	390 U	10 UJ	4.7 U	4.8 U	10 UJ	0.25 U	515 U
Styrene	ug/kg	390 U	10 U	4.7 U	4.8 U	8.2 UJ	0.28 U	14 U
Tetrachloroethene	ug/kg	34 J	10 U	4.7 U	4.8 U	41 J	0.39 U	71 J
Toluene	ug/kg	150 J	10 U	0.41 J	0.69 J	8.2 UJ	0.35 U	120 J
trans-1,2-Dichloroethene	ug/kg	83 J	10 U	4.7 U	4.8 U	8.2 UJ	0.40 U	49 U
trans-1,3-Dichloropropene	ug/kg	390 U	10 U	4.7 U	4.8 U	8.2 UJ	0.22 U	21 U
Trichloroethene	ug/kg	8400 J	10 U	4.7 U	4.8 U	3.9 J	0.43 U	52 U
Trichlorofluoromethane (CFC-11)	ug/kg	390 U	10 U	4.7 U	4.8 U	8.2 UJ	0.25 U	47 U
Trifluorotrichloroethane (CFC-113)	ug/kg	390 U	10 U	4.7 U	4.8 U	8.2 UJ	0.51 U	32 U

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH90-13**	**BH91-13**	**BH92-13**	**BH92-13**	**BH93-13**	**BH94-17**	**BH95-17**
Sample ID:		**S-38443-070813-JL-088**	**S-38443-062713-JC-072**	**S-38443-070913-JC-089**	**S-38443-070913-JC-090**	**S-38443-062813-JC-073**	**S-38443-122017-JC-016**	**S-38443-121917-JC-015**
Sample Date:		**7/8/2013**	**6/27/2013**	**7/9/2013**	**7/9/2013**	**6/28/2013**	**12/20/2017**	**12/19/2017**
Sample Depth:		**26.5-28.5 ft BGS**	**23-25 ft BGS**	**18.8-20.8 ft BGS**	**18.8-20.8 ft BGS**	**13-15 ft BGS**	**13-14.8 ft BGS**	**5-7 ft BGS**
					Duplicate			
Parameters	**Units**							
Vinyl chloride	ug/kg	41 J	10 U	4.7 U	4.8 U	8.2 UJ	0.29 U	24 U
Xylenes (total)	ug/kg	1300	21 U	9.4 U	9.5 U	16 UJ	0.42 U	190 J
Semi-Volatiles								
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	-	-	-	-	-	11 U	110 U
2,4,5-Trichlorophenol	ug/kg	-	-	-	-	-	30 U	290 U
2,4,6-Trichlorophenol	ug/kg	-	-	-	-	-	11 U	100 U
2,4-Dichlorophenol	ug/kg	-	-	-	-	-	24 U	230 U
2,4-Dimethylphenol	ug/kg	-	-	-	-	-	24 U	230 U
2,4-Dinitrophenol	ug/kg	-	-	-	-	-	25 U	250 U
2,4-Dinitrotoluene	ug/kg	-	-	-	-	-	20 U	200 U
2,6-Dinitrotoluene	ug/kg	-	-	-	-	-	25 U	250 U
2-Chloronaphthalene	ug/kg	-	-	-	-	-	0.54 U	5.3 U
2-Chlorophenol	ug/kg	-	-	-	-	-	9.8 U	96 U
2-Methylnaphthalene	ug/kg	-	-	-	-	-	110	350
2-Methylphenol	ug/kg	-	-	-	-	-	13 U	130 U
2-Nitroaniline	ug/kg	-	-	-	-	-	11 U	110 U
2-Nitrophenol	ug/kg	-	-	-	-	-	9.9 U	97 U
3&4-Methylphenol	ug/kg	-	-	-	-	-	24 U	230 U
3,3'-Dichlorobenzidine	ug/kg	-	-	-	-	-	22 U	210 U
3-Nitroaniline	ug/kg	-	-	-	-	-	19 U	190 U
4,6-Dinitro-2-methylphenol	ug/kg	-	-	-	-	-	11 U	110 U
4-Bromophenyl phenyl ether	ug/kg	-	-	-	-	-	16 U	150 U
4-Chloro-3-methylphenol	ug/kg	-	-	-	-	-	25 U	250 U
4-Chloroaniline	ug/kg	-	-	-	-	-	20 U	200 U
4-Chlorophenyl phenyl ether	ug/kg	-	-	-	-	-	16 U	150 U
4-Methylphenol	ug/kg	-	-	-	-	-	-	-
4-Nitroaniline	ug/kg	-	-	-	-	-	31 U	300 U
4-Nitrophenol	ug/kg	-	-	-	-	-	20 U	200 U
Acenaphthene	ug/kg	-	-	-	-	-	21	230
Acenaphthylene	ug/kg	-	-	-	-	-	10	330
Acetophenone	ug/kg	-	-	-	-	-	11 U	110 U
Anthracene	ug/kg	-	-	-	-	-	35	950
Atrazine	ug/kg	-	-	-	-	-	11 U	110 U
Benzaldehyde	ug/kg	-	-	-	-	-	14 U	140 U
Benzo(a)anthracene	ug/kg	-	-	-	-	-	110	2100
Benzo(a)pyrene	ug/kg	-	-	-	-	-	93	1600
Benzo(b)fluoranthene	ug/kg	-	-	-	-	-	150	2100
Benzo(g,h,i)perylene	ug/kg	-	-	-	-	-	82	840
Benzo(k)fluoranthene	ug/kg	-	-	-	-	-	31	620
Biphenyl (1,1-Biphenyl)	ug/kg	-	-	-	-	-	13 J	64 J
bis(2-Chloroethoxy)methane	ug/kg	-	-	-	-	-	26 U	260 U
bis(2-Chloroethyl)ether	ug/kg	-	-	-	-	-	2.4 U	23 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	-	-	-	-	-	98	250 J
Butyl benzylphthalate (BBP)	ug/kg	-	-	-	-	-	12 U	120 U
Caprolactam	ug/kg	-	-	-	-	-	44 U	430 U
Carbazole	ug/kg	-	-	-	-	-	32 U	330 J
Chrysene	ug/kg	-	-	-	-	-	150	1900

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH90-13**	**BH91-13**	**BH92-13**	**BH92-13**	**BH93-13**	**BH94-17**	**BH95-17**
Sample ID:		**S-38443-070813-JL-088**	**S-38443-062713-JC-072**	**S-38443-070913-JC-089**	**S-38443-070913-JC-090**	**S-38443-062813-JC-073**	**S-38443-122017-JC-016**	**S-38443-121917-JC-015**
Sample Date:		**7/8/2013**	**6/27/2013**	**7/9/2013**	**7/9/2013**	**6/28/2013**	**12/20/2017**	**12/19/2017**
Sample Depth:		**26.5-28.5 ft BGS**	**23-25 ft BGS**	**18.8-20.8 ft BGS**	**18.8-20.8 ft BGS**	**13-15 ft BGS**	**13-14.8 ft BGS**	**5-7 ft BGS**
					Duplicate			
Parameters	**Units**							
Dibenz(a,h)anthracene	ug/kg	-	-	-	-	-	28	270
Dibenzofuran	ug/kg	-	-	-	-	-	39 J	300 J
Diethyl phthalate	ug/kg	-	-	-	-	-	30 U	190 U
Dimethyl phthalate	ug/kg	-	-	-	-	-	20 U	200 U
Di-n-butylphthalate (DBP)	ug/kg	-	-	-	-	-	18 U	180 U
Di-n-octyl phthalate (DnOP)	ug/kg	-	-	-	-	-	9.4 U	92 U
Fluoranthene	ug/kg	-	-	-	-	-	240	3900
Fluorene	ug/kg	-	-	-	-	-	20	390
Hexachlorobenzene	ug/kg	-	-	-	-	-	2.5 U	25 U
Hexachlorobutadiene	ug/kg	-	-	-	-	-	6.7 U	66 U
Hexachlorocyclopentadiene	ug/kg	-	-	-	-	-	9.7 U	95 U
Hexachloroethane	ug/kg	-	-	-	-	-	11 U	110 U
Indeno(1,2,3-cd)pyrene	ug/kg	-	-	-	-	-	61	760
Isophorone	ug/kg	-	-	-	-	-	16 U	150 U
Naphthalene	ug/kg	-	-	-	-	-	75	320
Nitrobenzene	ug/kg	-	-	-	-	-	2.6 U	26 U
N-Nitrosodi-n-propylamine	ug/kg	-	-	-	-	-	7.5 U	74 U
N-Nitrosodiphenylamine	ug/kg	-	-	-	-	-	25 U	250 U
Pentachlorophenol	ug/kg	-	-	-	-	-	11 U	110 U
Phenanthrene	ug/kg	-	-	-	-	-	180	3300
Phenol	ug/kg	-	-	-	-	-	8.7 U	85 U
Pyrene	ug/kg	-	-	-	-	-	200	3500
Metals								
Aluminum	mg/kg	-	-	-	-	-	2800	1200
Antimony	mg/kg	-	-	-	-	-	0.68	0.55
Arsenic	mg/kg	-	-	-	-	-	5.8	5.5
Barium	mg/kg	-	-	-	-	-	310	120
Beryllium	mg/kg	-	-	-	-	-	0.44	0.37
Cadmium	mg/kg	-	-	-	-	-	1.1	0.16 J
Calcium	mg/kg	-	-	-	-	-	86000	11000
Chromium	mg/kg	-	-	-	-	-	13	7.4
Chromium III (trivalent)	mg/kg	-	-	-	-	-	13	7.4
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	0.28 U	0.28 U
Cobalt	mg/kg	-	-	-	-	-	4.3	3.7
Copper	mg/kg	-	-	-	-	-	41	61
Iron	mg/kg	-	-	-	-	-	12000	3100
Lead	mg/kg	-	-	-	-	-	570	28
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-
Magnesium	mg/kg	-	-	-	-	-	20000	3200

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH90-13**	**BH91-13**	**BH92-13**	**BH92-13**	**BH93-13**	**BH94-17**	**BH95-17**
Sample ID:		**S-38443-070813-JL-088**	**S-38443-062713-JC-072**	**S-38443-070913-JC-089**	**S-38443-070913-JC-090**	**S-38443-062813-JC-073**	**S-38443-122017-JC-016**	**S-38443-121917-JC-015**
Sample Date:		**7/8/2013**	**6/27/2013**	**7/9/2013**	**7/9/2013**	**6/28/2013**	**12/20/2017**	**12/19/2017**
Sample Depth:		**26.5-28.5 ft BGS**	**23-25 ft BGS**	**18.8-20.8 ft BGS**	**18.8-20.8 ft BGS**	**13-15 ft BGS**	**13-14.8 ft BGS**	**5-7 ft BGS**
					Duplicate			
Parameters	**Units**							
Manganese	mg/kg	-	-	-	-	-	250 J	40
Mercury	mg/kg	-	-	-	-	-	0.028 J	0.037 J
Nickel	mg/kg	-	-	-	-	-	15	7.1
Potassium	mg/kg	-	-	-	-	-	350	240
Selenium	mg/kg	-	-	-	-	-	1.4	0.98 J
Silver	mg/kg	-	-	-	-	-	0.076 J	0.11 J
Sodium	mg/kg	-	-	-	-	-	120 J	70 J
Thallium	mg/kg	-	-	-	-	-	0.16 J	0.12 J
Vanadium	mg/kg	-	-	-	-	-	9.6	6.6
Zinc	mg/kg	-	-	-	-	-	14000	16
PCBs								
Aroclor-1016 (PCB-1016)	ug/kg	-	-	-	-	-	26 U	26 U
Aroclor-1221 (PCB-1221)	ug/kg	-	-	-	-	-	28 U	28 U
Aroclor-1232 (PCB-1232)	ug/kg	-	-	-	-	-	27 U	27 U
Aroclor-1242 (PCB-1242)	ug/kg	-	-	-	-	-	22 U	22 U
Aroclor-1248 (PCB-1248)	ug/kg	-	-	-	-	-	28 U	28 U
Aroclor-1254 (PCB-1254)	ug/kg	-	-	-	-	-	110	380
Aroclor-1260 (PCB-1260)	ug/kg	-	-	-	-	-	26 U	26 U
Pesticides								
4,4'-DDD	ug/kg	-	-	-	-	-	3.8 U	19 U
4,4'-DDE	ug/kg	-	-	-	-	-	1.4 U	6.9 U
4,4'-DDT	ug/kg	-	-	-	-	-	1.6 U	8.0 U
Aldrin	ug/kg	-	-	-	-	-	2.8 U	14 U
alpha-BHC	ug/kg	-	-	-	-	-	1.9 U	9.2 U
alpha-Chlordane	ug/kg	-	-	-	-	-	4.4 U	22 U
beta-BHC	ug/kg	-	-	-	-	-	4.5 U	22 U
delta-BHC	ug/kg	-	-	-	-	-	30 U	30 U
Dieldrin	ug/kg	-	-	-	-	-	1.0 U	5.2 U
Endosulfan I	ug/kg	-	-	-	-	-	1.5 U	7.4 U
Endosulfan II	ug/kg	-	-	-	-	-	2.1 U	10 U
Endosulfan sulfate	ug/kg	-	-	-	-	-	28 U	27 U
Endrin	ug/kg	-	-	-	-	-	1.6 U	8.0 UJ
Endrin aldehyde	ug/kg	-	-	-	-	-	42 UJ	41 UJ
Endrin ketone	ug/kg	-	-	-	-	-	1.3 U	6.3 U
gamma-BHC (lindane)	ug/kg	-	-	-	-	-	3.4 U	17 U
gamma-Chlordane	ug/kg	-	-	-	-	-	1.7 U	8.6 U
Heptachlor	ug/kg	-	-	-	-	-	0.91 U	4.5 U
Heptachlor epoxide	ug/kg	-	-	-	-	-	2.8 U	14 U
Methoxychlor	ug/kg	-	-	-	-	-	3.1 NJ	6.9 U
Toxaphene	ug/kg	-	-	-	-	-	43 U	210 U
Herbicides								
2,4,5-T	ug/kg	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/kg	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	-	-	-	-	-	-	-

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH90-13**	**BH91-13**	**BH92-13**	**BH92-13**	**BH93-13**	**BH94-17**	**BH95-17**
Sample ID:		**S-38443-070813-JL-088**	**S-38443-062713-JC-072**	**S-38443-070913-JC-089**	**S-38443-070913-JC-090**	**S-38443-062813-JC-073**	**S-38443-122017-JC-016**	**S-38443-121917-JC-015**
Sample Date:		**7/8/2013**	**6/27/2013**	**7/9/2013**	**7/9/2013**	**6/28/2013**	**12/20/2017**	**12/19/2017**
Sample Depth:		**26.5-28.5 ft BGS**	**23-25 ft BGS**	**18.8-20.8 ft BGS**	**18.8-20.8 ft BGS**	**13-15 ft BGS**	**13-14.8 ft BGS**	**5-7 ft BGS**
					Duplicate			
Parameters	**Units**							
Dioxin/Furans								
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	16	12
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	230	440
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	7.7	6.5
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	25	20
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	0.52 J	0.89 J
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	1.7 J	3.2 J
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	0.064 U	0.070 U
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	1.0 J	1.0 J
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	1.1 J	0.069 U
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	0.11 U	0.29 U
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	1.0 J	0.065 U
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	1.9 J	0.58 J
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	1.5 U	1.3 U
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	0.64 J	0.91 J
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	2.1 J	1.1 J
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	8.5	1.7 J
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	0.24 J	0.48 J
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	21 J	20 J
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	46 J	43 J
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	17 J	21 J
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	10 J	8.8 J
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	26 J	31 J
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	230 J	630 J
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	71 J	47 J
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	2.9 J	3.3 J
Asbestos								
Asbestos	%	-	-	-	-	-	ND	ND
Chrysotile asbestos	%	-	-	-	-	-	-	-
Geotechnical								
Coarse sand	%	-	-	-	-	-	-	-
Fine sand	%	-	-	-	-	-	-	-
Fines	%	-	-	-	-	-	-	-
Gravel	%	-	-	-	-	-	-	-
Medium sand	%	-	-	-	-	-	-	-
Sand	%	-	-	-	-	-	-	-
Sieve, #4	% passed	-	-	-	-	-	-	-
Sieve, #10	% passed	-	-	-	-	-	-	-
Sieve, #20	% passed	-	-	-	-	-	-	-
Sieve, #40	% passed	-	-	-	-	-	-	-
Sieve, #60	% passed	-	-	-	-	-	-	-
Sieve, #80	% passed	-	-	-	-	-	-	-
Sieve, #100	% passed	-	-	-	-	-	-	-
Sieve, #200	% passed	-	-	-	-	-	-	-
Sieve, 0.375 inch	% passed	-	-	-	-	-	-	-

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH90-13**	**BH91-13**	**BH92-13**	**BH92-13**	**BH93-13**	**BH94-17**	**BH95-17**
Sample ID:		**S-38443-070813-JL-088**	**S-38443-062713-JC-072**	**S-38443-070913-JC-089**	**S-38443-070913-JC-090**	**S-38443-062813-JC-073**	**S-38443-122017-JC-016**	**S-38443-121917-JC-015**
Sample Date:		**7/8/2013**	**6/27/2013**	**7/9/2013**	**7/9/2013**	**6/28/2013**	**12/20/2017**	**12/19/2017**
Sample Depth:		**26.5-28.5 ft BGS**	**23-25 ft BGS**	**18.8-20.8 ft BGS**	**18.8-20.8 ft BGS**	**13-15 ft BGS**	**13-14.8 ft BGS**	**5-7 ft BGS**
					Duplicate			
Parameters	**Units**							
Sieve, 0.75 inch	% passed	-	-	-	-	-	-	-
Sieve, 1 inch	% passed	-	-	-	-	-	-	-
Sieve, 1.5 inch	% passed	-	-	-	-	-	-	-
Sieve, 2 inch	% passed	-	-	-	-	-	-	-
Sieve, 3 inch	% passed	-	-	-	-	-	-	-
General Chemistry								
Cyanide (total)	mg/kg	-	-	-	-	-	0.14 J	0.084 J
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-

Notes
< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
D - Compounds at secondary dilution factor.
E - Estimated because of the presence of interference (Inorganics).
E - Exceed calibration range of GC/MS instrument (Organics).
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%. The
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH96-18**	**BH164-17**	**BH164-17**	**BH165-17**	**BH165-17**	**BH166-17**	**BH166-17**
Sample ID:		**S-38443-010318-JC-025**	**S-38443-122017-JC-017**	**S-38443-122017-JC-018**	**S-38443-122017-JC-019**	**S-38443-122017-JC-020**	**S-38443-121917-JC-012**	**S-38443-121917-JC-013**
Sample Date:		**1/3/2018**	**12/20/2017**	**12/20/2017**	**12/20/2017**	**12/20/2017**	**12/19/2017**	**12/19/2017**
Sample Depth:		**13-15 ft BGS**	**13-15 ft BGS**	**18-20 ft BGS**	**13-15 ft BGS**	**21.5-23.5 ft BGS**	**1-3 ft BGS**	**18-20 ft BGS**
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/kg	0.21 U	-	0.42 U	-	54 U	-	0.77 U
1,1,2,2-Tetrachloroethane	ug/kg	0.23 U	-	R	-	47 UJ	-	R
1,1,2-Trichloroethane	ug/kg	0.35 U	-	0.71 U	-	45 U	-	R
1,1-Dichloroethane	ug/kg	0.30 U	-	0.60 U	-	60 U	-	1.1 U
1,1-Dichloroethene	ug/kg	0.48 U	-	0.98 U	-	70 UJ	-	1.8 U
1,2,4-Trichlorobenzene	ug/kg	0.21 U	-	R	-	50 U	-	R
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	0.61 U	-	R	-	93 U	-	R
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	0.31 U	-	0.64 U	-	45 UJ	-	R
1,2-Dichlorobenzene	ug/kg	0.20 U	-	R	-	35 U	-	R
1,2-Dichloroethane	ug/kg	0.26 U	-	0.53 U	-	58 U	-	0.98 U
1,2-Dichloroethene (total)	ug/kg	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/kg	0.28 U	-	0.56 U	-	58 U	-	1.0 U
1,3-Dichlorobenzene	ug/kg	0.26 U	-	R	-	74 U	-	R
1,4-Dichlorobenzene	ug/kg	0.31 U	-	R	-	130 J	-	R
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	3.5 J	-	4.9 J	-	97 U	-	R
2-Hexanone	ug/kg	0.52 U	-	1.1 U	-	170 U	-	R
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	0.80 U	-	1.6 U	-	78 U	-	9.9 J
Acetone	ug/kg	15 U	-	26 U	-	276 U	-	78 J
Benzene	ug/kg	0.71 J	-	0.58 U	-	47 U	-	1.1 U
Bromodichloromethane	ug/kg	0.30 U	-	0.60 U	-	35 U	-	1.1 U
Bromoform	ug/kg	0.36 U	-	0.73 UJ	-	45 U	-	R
Bromomethane (Methyl bromide)	ug/kg	0.53 U	-	1.1 U	-	54 U	-	2.0 U
Carbon disulfide	ug/kg	2.9 J	-	0.41 J	-	150 J	-	1.4 J
Carbon tetrachloride	ug/kg	0.22 U	-	0.46 U	-	52 U	-	0.84 U
Chlorobenzene	ug/kg	0.30 U	-	0.60 U	-	2400	-	R
Chloroethane	ug/kg	0.34 U	-	0.69 U	-	54 U	-	1.3 U
Chloroform (Trichloromethane)	ug/kg	0.21 U	-	0.42 U	-	47 U	-	0.77 U
Chloromethane (Methyl chloride)	ug/kg	0.34 U	-	0.69 U	-	35 U	-	1.3 U
cis-1,2-Dichloroethene	ug/kg	0.25 U	-	0.51 U	-	68 UJ	-	0.94 U
cis-1,3-Dichloropropene	ug/kg	0.23 U	-	0.47 U	-	45 UJ	-	0.88 U
Cyclohexane	ug/kg	2.6 J	-	0.38 U	-	58 U	-	0.71 U
Dibromochloromethane	ug/kg	0.27 U	-	0.55 U	-	66 U	-	R
Dichlorodifluoromethane (CFC-12)	ug/kg	0.31 U	-	0.64 U	-	43 U	-	1.2 U
Ethylbenzene	ug/kg	1.9 J	-	0.80 J	-	68 U	-	0.95 J
Isopropyl benzene	ug/kg	0.89 J	-	0.36 U	-	66 U	-	R
Methyl acetate	ug/kg	1.0 U	-	2.1 U	-	460 J	-	3.9 U
Methyl cyclohexane	ug/kg	2.0 J	-	0.42 U	-	72 U	-	0.77 U
Methyl tert butyl ether (MTBE)	ug/kg	0.24 U	-	0.49 U	-	50 U	-	0.91 U
Methylene chloride	ug/kg	0.58 U	-	4.5 U	-	150 U	-	0.81 U
Styrene	ug/kg	0.24 U	-	0.49 U	-	19 U	-	R
Tetrachloroethene	ug/kg	0.33 U	-	0.67 U	-	41 U	-	R
Toluene	ug/kg	1.8 J	-	0.62 U	-	70 U	-	24 J
trans-1,2-Dichloroethene	ug/kg	0.34 U	-	0.69 U	-	68 U	-	1.3 U
trans-1,3-Dichloropropene	ug/kg	0.19 U	-	0.38 UJ	-	29 UJ	-	R
Trichloroethene	ug/kg	0.37 U	-	0.75 U	-	72 U	-	1.4 U
Trichlorofluoromethane (CFC-11)	ug/kg	0.21 U	-	0.44 U	-	66 U	-	0.81 U
Trifluorotrichloroethane (CFC-113)	ug/kg	0.44 U	-	0.89 U	-	45 UJ	-	1.6 U

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH96-18**	**BH164-17**	**BH164-17**	**BH165-17**	**BH165-17**	**BH166-17**	**BH166-17**
Sample ID:		**S-38443-010318-JC-025**	**S-38443-122017-JC-017**	**S-38443-122017-JC-018**	**S-38443-122017-JC-019**	**S-38443-122017-JC-020**	**S-38443-121917-JC-012**	**S-38443-121917-JC-013**
Sample Date:		**1/3/2018**	**12/20/2017**	**12/20/2017**	**12/20/2017**	**12/20/2017**	**12/19/2017**	**12/19/2017**
Sample Depth:		**13-15 ft BGS**	**13-15 ft BGS**	**18-20 ft BGS**	**13-15 ft BGS**	**21.5-23.5 ft BGS**	**1-3 ft BGS**	**18-20 ft BGS**
Parameters	**Units**							
Vinyl chloride	ug/kg	0.25 U	-	0.51 U	-	33 U	-	0.94 U
Xylenes (total)	ug/kg	15	-	2.5 J	-	66 J	-	R
Semi-Volatiles								
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	53 U	-	8200 U	-	4500 U	-	R
2,4,5-Trichlorophenol	ug/kg	140 U	-	22000 U	-	12000 U	-	46 U
2,4,6-Trichlorophenol	ug/kg	50 U	-	7700 U	-	4200 U	-	16 U
2,4-Dichlorophenol	ug/kg	110 U	-	17000 U	-	9500 U	-	37 U
2,4-Dimethylphenol	ug/kg	110 U	-	17000 U	-	9500 U	-	37 U
2,4-Dinitrophenol	ug/kg	120 U	-	18000 U	-	10000 U	-	39 U
2,4-Dinitrotoluene	ug/kg	95 U	-	15000 U	-	8100 U	-	R
2,6-Dinitrotoluene	ug/kg	120 U	-	18000 U	-	10000 U	-	R
2-Chloronaphthalene	ug/kg	2.5 U	-	390 U	-	210 U	-	R
2-Chlorophenol	ug/kg	46 U	-	7100 U	-	3900 U	-	15 U
2-Methylnaphthalene	ug/kg	940	-	29000	-	240 U	-	R
2-Methylphenol	ug/kg	61 U	-	9500 U	-	5200 U	-	20 U
2-Nitroaniline	ug/kg	51 U	-	7900 U	-	4300 U	-	R
2-Nitrophenol	ug/kg	46 U	-	7200 U	-	4000 U	-	15 U
3&4-Methylphenol	ug/kg	250 J	-	17000 U	-	9500 U	-	37 U
3,3'-Dichlorobenzidine	ug/kg	100 U	-	16000 U	-	8600 U	-	R
3-Nitroaniline	ug/kg	89 U	-	14000 U	-	7600 U	-	R
4,6-Dinitro-2-methylphenol	ug/kg	51 U	-	8000 U	-	4400 U	-	17 U
4-Bromophenyl phenyl ether	ug/kg	72 U	-	11000 U	-	6200 U	-	R
4-Chloro-3-methylphenol	ug/kg	120 U	-	18000 U	-	10000 U	-	39 U
4-Chloroaniline	ug/kg	95 U	-	15000 U	-	8100 U	-	R
4-Chlorophenyl phenyl ether	ug/kg	72 U	-	11000 U	-	6200 U	-	R
4-Methylphenol	ug/kg	-	-	-	-	-	-	-
4-Nitroaniline	ug/kg	140 U	-	23000 U	-	12000 U	-	R
4-Nitrophenol	ug/kg	95 U	-	15000 U	-	8100 U	-	31 U
Acenaphthene	ug/kg	160	-	120000	-	360 U	-	R
Acenaphthylene	ug/kg	1.9 U	-	3100 J	-	170 U	-	R
Acetophenone	ug/kg	170 J	-	8000 U	-	4400 U	-	R
Anthracene	ug/kg	94	-	200000	-	370 U	-	R
Atrazine	ug/kg	51 U	-	7900 U	-	4300 U	-	R
Benzaldehyde	ug/kg	67 U	-	10000 U	-	5700 U	-	R
Benzo(a)anthracene	ug/kg	59	-	390000	-	300 U	-	R
Benzo(a)pyrene	ug/kg	21 J	-	340000	-	310 U	-	R
Benzo(b)fluoranthene	ug/kg	48	-	460000	-	280 U	-	R
Benzo(g,h,i)perylene	ug/kg	1.9 U	-	210000	-	170 U	-	R
Benzo(k)fluoranthene	ug/kg	3.8 U	-	170000	-	320 U	-	R
Biphenyl (1,1-Biphenyl)	ug/kg	230 J	-	11000 J	-	1700 U	-	R
bis(2-Chloroethoxy)methane	ug/kg	120 U	-	19000 U	-	10000 U	-	R
bis(2-Chloroethyl)ether	ug/kg	11 U	-	1700 U	-	950 U	-	R
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	220 U	-	16000 U	-	560000	-	68 J
Butyl benzylphthalate (BBP)	ug/kg	56 U	-	8700 U	-	45000	-	R
Caprolactam	ug/kg	210 U	-	32000 U	-	18000 U	-	R
Carbazole	ug/kg	150 U	-	140000	-	13000 U	-	R
Chrysene	ug/kg	77	-	350000	-	520 U	-	R

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH96-18**	**BH164-17**	**BH164-17**	**BH165-17**	**BH165-17**	**BH166-17**	**BH166-17**
Sample ID:		**S-38443-010318-JC-025**	**S-38443-122017-JC-017**	**S-38443-122017-JC-018**	**S-38443-122017-JC-019**	**S-38443-122017-JC-020**	**S-38443-121917-JC-012**	**S-38443-121917-JC-013**
Sample Date:		**1/3/2018**	**12/20/2017**	**12/20/2017**	**12/20/2017**	**12/20/2017**	**12/19/2017**	**12/19/2017**
Sample Depth:		**13-15 ft BGS**	**13-15 ft BGS**	**18-20 ft BGS**	**13-15 ft BGS**	**21.5-23.5 ft BGS**	**1-3 ft BGS**	**18-20 ft BGS**
Parameters	**Units**							
Dibenz(a,h)anthracene	ug/kg	3.7 U	-	66000	-	310 U	-	R
Dibenzofuran	ug/kg	85 J	-	71000	-	310 U	-	R
Diethyl phthalate	ug/kg	89 U	-	14000 U	-	9700 J	-	R
Dimethyl phthalate	ug/kg	95 U	-	15000 U	-	8100 U	-	R
Di-n-butylphthalate (DBP)	ug/kg	84 U	-	13000 U	-	7200 U	-	R
Di-n-octyl phthalate (DnOP)	ug/kg	44 U	-	6800 U	-	3800 U	-	R
Fluoranthene	ug/kg	190	-	840000	-	260 U	-	R
Fluorene	ug/kg	340	-	150000	-	250 U	-	R
Hexachlorobenzene	ug/kg	12 U	-	1800 U	-	1000 U	-	R
Hexachlorobutadiene	ug/kg	31 U	-	4900 U	-	2700 U	-	R
Hexachlorocyclopentadiene	ug/kg	45 U	-	7000 U	-	3900 U	-	R
Hexachloroethane	ug/kg	50 U	-	7800 U	-	4300 U	-	R
Indeno(1,2,3-cd)pyrene	ug/kg	1.9 U	-	190000	-	170 U	-	R
Isophorone	ug/kg	72 U	-	11000 U	-	6200 U	-	R
Naphthalene	ug/kg	1500	-	110000	-	390 U	-	R
Nitrobenzene	ug/kg	12 U	-	1900 U	-	1000 U	-	R
N-Nitrosodi-n-propylamine	ug/kg	35 U	-	5500 U	-	3000 U	-	R
N-Nitrosodiphenylamine	ug/kg	120 U	-	18000 U	-	10000 U	-	R
Pentachlorophenol	ug/kg	51 U	-	7900 U	-	4300 U	-	17 U
Phenanthrene	ug/kg	750	-	690000	-	350 U	-	R
Phenol	ug/kg	54 J	-	6300 U	-	3500 U	-	14 U
Pyrene	ug/kg	190	-	670000	-	210 U	-	R
Metals								
Aluminum	mg/kg	2500 J	-	16000	-	11000	-	3600
Antimony	mg/kg	0.55 J	-	44	-	4.1 J	-	2.5
Arsenic	mg/kg	4.4	-	25	-	26	-	60
Barium	mg/kg	15	-	1700	-	570	-	380
Beryllium	mg/kg	0.097 J	-	1.3	-	1.4	-	4.0
Cadmium	mg/kg	2.2	-	13	-	3.2	-	0.26 J
Calcium	mg/kg	12000	-	46000	-	63000	-	1300
Chromium	mg/kg	71	310	79	58	57	52	14
Chromium III (trivalent)	mg/kg	71	300	79	58	57	52	14
Chromium VI (hexavalent)	mg/kg	0.27 U	5.0	1.7 U	1.5 U	1.7 U	0.28 U	0.44 U
Cobalt	mg/kg	3.4	-	14	-	12	-	11
Copper	mg/kg	110 J	-	530	-	400 J	-	62
Iron	mg/kg	44000	-	31000	-	52000	-	8500
Lead	mg/kg	38	-	1900	-	500 J	-	37
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-
Magnesium	mg/kg	5600	-	11000	-	19000	-	330

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH96-18**	**BH164-17**	**BH164-17**	**BH165-17**	**BH165-17**	**BH166-17**	**BH166-17**
Sample ID:		**S-38443-010318-JC-025**	**S-38443-122017-JC-017**	**S-38443-122017-JC-018**	**S-38443-122017-JC-019**	**S-38443-122017-JC-020**	**S-38443-121917-JC-012**	**S-38443-121917-JC-013**
Sample Date:		**1/3/2018**	**12/20/2017**	**12/20/2017**	**12/20/2017**	**12/20/2017**	**12/19/2017**	**12/19/2017**
Sample Depth:		**13-15 ft BGS**	**13-15 ft BGS**	**18-20 ft BGS**	**13-15 ft BGS**	**21.5-23.5 ft BGS**	**1-3 ft BGS**	**18-20 ft BGS**
Parameters	**Units**							
Manganese	mg/kg	1900	-	410 J	-	580	-	12
Mercury	mg/kg	0.020 U	-	0.28 J	-	0.57	-	0.090 J
Nickel	mg/kg	47	-	72	-	45	-	20
Potassium	mg/kg	180 J	-	1700	-	910	-	490
Selenium	mg/kg	0.22 J	-	2.0	-	2.4	-	11
Silver	mg/kg	0.23	-	3.7	-	1.6	-	0.15 J
Sodium	mg/kg	400	-	1000 J	-	370	-	350
Thallium	mg/kg	0.051 U	-	0.35 J	-	0.76	-	1.8
Vanadium	mg/kg	5.0	-	30	-	26	-	51
Zinc	mg/kg	140 J	-	2800	-	700	-	23
PCBs								
Aroclor-1016 (PCB-1016)	ug/kg	25 U	-	29000 U	-	150 U	-	40 U
Aroclor-1221 (PCB-1221)	ug/kg	27 U	-	32000 U	-	170 U	-	44 U
Aroclor-1232 (PCB-1232)	ug/kg	26 U	-	31000 U	-	160 U	-	42 U
Aroclor-1242 (PCB-1242)	ug/kg	22 U	-	930000	-	3700	-	35 U
Aroclor-1248 (PCB-1248)	ug/kg	27 U	-	32000 U	-	170 U	-	44 U
Aroclor-1254 (PCB-1254)	ug/kg	26 U	-	31000 U	-	160 U	-	42 U
Aroclor-1260 (PCB-1260)	ug/kg	25 U	-	29000 U	-	1400	-	40 U
Pesticides								
4,4'-DDD	ug/kg	3.7 U	-	2300 U	-	22 U	-	6.1 U
4,4'-DDE	ug/kg	1.4 U	-	820 U	-	8.1 NJ	-	2.2 U
4,4'-DDT	ug/kg	1.6 U	-	960 U	-	9.2 U	-	2.6 U
Aldrin	ug/kg	2.7 U	-	1600 U	-	16 U	-	4.4 U
alpha-BHC	ug/kg	1.8 U	-	1100 U	-	11 U	-	2.9 U
alpha-Chlordane	ug/kg	4.3 U	-	2600 U	-	25 U	-	7.0 U
beta-BHC	ug/kg	4.4 U	-	2700 U	-	26 U	-	7.2 U
delta-BHC	ug/kg	1.5 U	-	890 U	-	860 U	-	48 U
Dieldrin	ug/kg	1.0 U	-	620 U	-	5.9 U	-	1.7 U
Endosulfan I	ug/kg	1.5 U	-	890 U	-	8.6 U	-	2.4 U
Endosulfan II	ug/kg	2.0 U	-	1200 U	-	12 U	-	3.3 U
Endosulfan sulfate	ug/kg	1.4 U	-	820 U	-	790 U	-	44 U
Endrin	ug/kg	1.6 U	-	960 U	-	9.2 U	-	2.6 U
Endrin aldehyde	ug/kg	20 U	-	1200 UJ	-	1200 U	-	66 UJ
Endrin ketone	ug/kg	1.2 U	-	750 U	-	7.2 U	-	2.0 U
gamma-BHC (lindane)	ug/kg	3.3 U	-	3400 J	-	19 U	-	5.3 U
gamma-Chlordane	ug/kg	1.7 U	-	1000 U	-	9.9 U	-	2.8 U
Heptachlor	ug/kg	0.88 U	-	530 U	-	5.1 U	-	1.4 U
Heptachlor epoxide	ug/kg	2.7 U	-	1600 U	-	16 U	-	4.4 U
Methoxychlor	ug/kg	2.9 J	-	820 U	-	7.9 U	-	2.2 U
Toxaphene	ug/kg	42 U	-	25000 U	-	240 U	-	68 U
Herbicides								
2,4,5-T	ug/kg	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/kg	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	-	-	-	-	-	-	-

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH96-18**	**BH164-17**	**BH164-17**	**BH165-17**	**BH165-17**	**BH166-17**	**BH166-17**
Sample ID:		**S-38443-010318-JC-025**	**S-38443-122017-JC-017**	**S-38443-122017-JC-018**	**S-38443-122017-JC-019**	**S-38443-122017-JC-020**	**S-38443-121917-JC-012**	**S-38443-121917-JC-013**
Sample Date:		**1/3/2018**	**12/20/2017**	**12/20/2017**	**12/20/2017**	**12/20/2017**	**12/19/2017**	**12/19/2017**
Sample Depth:		**13-15 ft BGS**	**13-15 ft BGS**	**18-20 ft BGS**	**13-15 ft BGS**	**21.5-23.5 ft BGS**	**1-3 ft BGS**	**18-20 ft BGS**
Parameters	**Units**							
Dioxin/Furans								
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	4.9 J	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	46	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	5.2 J	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	7.5	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	0.20 U	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	1.9 J	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	0.18 J	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	0.83 J	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	1.3 J	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	0.24 U	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	0.91 J	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	0.43 J	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	0.41 J	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	0.85 J	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	1.2 J	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	0.79 J	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	0.14 J	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	12 J	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	15 J	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	9.5 J	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	9.1 J	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	10 J	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	74 J	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	16 J	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	1.5 J	-	-	-	-	-	-
Asbestos								
Asbestos	%	-	-	-	-	-	-	ND
Chrysotile asbestos	%	1 <	-	1 <	-	1 <	-	-
Geotechnical								
Coarse sand	%	-	-	-	-	-	-	-
Fine sand	%	-	-	-	-	-	-	-
Fines	%	-	-	-	-	-	-	-
Gravel	%	-	-	-	-	-	-	-
Medium sand	%	-	-	-	-	-	-	-
Sand	%	-	-	-	-	-	-	-
Sieve, #4	% passed	-	-	-	-	-	-	-
Sieve, #10	% passed	-	-	-	-	-	-	-
Sieve, #20	% passed	-	-	-	-	-	-	-
Sieve, #40	% passed	-	-	-	-	-	-	-
Sieve, #60	% passed	-	-	-	-	-	-	-
Sieve, #80	% passed	-	-	-	-	-	-	-
Sieve, #100	% passed	-	-	-	-	-	-	-
Sieve, #200	% passed	-	-	-	-	-	-	-
Sieve, 0.375 inch	% passed	-	-	-	-	-	-	-

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH96-18**	**BH164-17**	**BH164-17**	**BH165-17**	**BH165-17**	**BH166-17**	**BH166-17**
Sample ID:		**S-38443-010318-JC-025**	**S-38443-122017-JC-017**	**S-38443-122017-JC-018**	**S-38443-122017-JC-019**	**S-38443-122017-JC-020**	**S-38443-121917-JC-012**	**S-38443-121917-JC-013**
Sample Date:		**1/3/2018**	**12/20/2017**	**12/20/2017**	**12/20/2017**	**12/20/2017**	**12/19/2017**	**12/19/2017**
Sample Depth:		**13-15 ft BGS**	**13-15 ft BGS**	**18-20 ft BGS**	**13-15 ft BGS**	**21.5-23.5 ft BGS**	**1-3 ft BGS**	**18-20 ft BGS**
Parameters	**Units**							
Sieve, 0.75 inch	% passed	-	-	-	-	-	-	-
Sieve, 1 inch	% passed	-	-	-	-	-	-	-
Sieve, 1.5 inch	% passed	-	-	-	-	-	-	-
Sieve, 2 inch	% passed	-	-	-	-	-	-	-
Sieve, 3 inch	% passed	-	-	-	-	-	-	-
General Chemistry								
Cyanide (total)	mg/kg	0.14 J	-	120	-	3.1	-	0.12 J
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-

Notes
< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
D - Compounds at secondary dilution factor.
E - Estimated because of the presence of interference (Inorganics).
E - Exceed calibration range of GC/MS instrument (Organics).
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%. The
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH168-17**	**BH172-17**	**BH173-17**	**BH173-17**	**BH173-17**	**BH176-18**	**GP25-18**
Sample ID:		**S-38443-122117-JC-024**	**S-38443-120817-JC-007**	**S-38443-122117-JC-021**	**S-38443-122117-JC-022**	**S-38443-122117-JC-023**	**S-38443-051618-JC-072**	**S-38443-012918-JC-066**
Sample Date:		**12/21/2017**	**12/8/2017**	**12/21/2017**	**12/21/2017**	**12/21/2017**	**5/16/2018**	**1/29/2018**
Sample Depth:		**12.5-14.5 ft BGS**	**12-14 ft BGS**	**5-7 ft BGS**	**17.5-19.5 ft BGS**	**17.5-19.5 ft BGS**	**18-20 ft BGS**	**15-16 ft bgs**
						Duplicate		
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/kg	-	-	-	36 U	37 U	0.20 U	53 UJ
1,1,2,2-Tetrachloroethane	ug/kg	-	-	-	31 U	32 U	0.23 U	45 UJ
1,1,2-Trichloroethane	ug/kg	-	-	-	29 U	31 U	0.35 U	43 UJ
1,1-Dichloroethane	ug/kg	-	-	-	39 U	41 U	0.29 U	58 UJ
1,1-Dichloroethene	ug/kg	-	-	-	46 UJ	48 UJ	0.48 U	68 UJ
1,2,4-Trichlorobenzene	ug/kg	-	-	-	33 U	35 U	0.21 U	49 UJ
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	-	-	-	61 U	64 U	0.60 U	90 UJ
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	-	-	-	29 U	31 U	0.31 U	43 UJ
1,2-Dichlorobenzene	ug/kg	-	-	-	23 U	24 U	0.20 U	34 UJ
1,2-Dichloroethane	ug/kg	-	-	-	38 U	40 U	0.26 U	56 UJ
1,2-Dichloroethene (total)	ug/kg	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/kg	-	-	-	38 U	40 U	0.27 U	56 UJ
1,3-Dichlorobenzene	ug/kg	-	-	-	48 U	51 U	0.26 U	71 UJ
1,4-Dichlorobenzene	ug/kg	-	-	-	34 U	36 U	0.31 U	51 UJ
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	-	-	-	64 U	66 U	1.1 U	94 UJ
2-Hexanone	ug/kg	-	-	-	110 U	110 U	0.51 U	160 UJ
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	-	-	-	51 U	53 U	0.79 U	75 UJ
Acetone	ug/kg	-	-	-	120 U	130 U	2.7 U	180 UJ
Benzene	ug/kg	-	-	-	31 U	32 U	0.28 U	45 UJ
Bromodichloromethane	ug/kg	-	-	-	23 U	24 U	0.29 U	34 UJ
Bromoform	ug/kg	-	-	-	29 UJ	31 UJ	0.35 U	43 UJ
Bromomethane (Methyl bromide)	ug/kg	-	-	-	36 U	37 U	0.52 U	53 UJ
Carbon disulfide	ug/kg	-	-	-	23 U	24 U	0.19 U	34 UJ
Carbon tetrachloride	ug/kg	-	-	-	34 U	36 U	0.22 U	51 UJ
Chlorobenzene	ug/kg	-	-	-	130 U	132 U	0.29 U	2000 J
Chloroethane	ug/kg	-	-	-	36 U	37 U	0.34 U	53 UJ
Chloroform (Trichloromethane)	ug/kg	-	-	-	31 U	32 U	0.20 U	45 UJ
Chloromethane (Methyl chloride)	ug/kg	-	-	-	23 U	24 U	0.34 U	34 UJ
cis-1,2-Dichloroethene	ug/kg	-	-	-	45 U	47 U	0.25 U	66 UJ
cis-1,3-Dichloropropene	ug/kg	-	-	-	29 U	31 U	0.23 U	43 UJ
Cyclohexane	ug/kg	-	-	-	38 UJ	40 UJ	0.19 U	56 UJ
Dibromochloromethane	ug/kg	-	-	-	43 U	45 U	0.27 U	64 UJ
Dichlorodifluoromethane (CFC-12)	ug/kg	-	-	-	28 U	29 U	0.31 U	41 UJ
Ethylbenzene	ug/kg	-	-	-	45 U	47 U	0.24 U	66 UJ
Isopropyl benzene	ug/kg	-	-	-	43 U	45 U	0.18 U	64 UJ
Methyl acetate	ug/kg	-	-	-	95 U	100 U	1.0 U	140 UJ
Methyl cyclohexane	ug/kg	-	-	-	47 UJ	49 UJ	0.20 U	69 UJ
Methyl tert butyl ether (MTBE)	ug/kg	-	-	-	33 U	35 U	0.24 U	49 UJ
Methylene chloride	ug/kg	-	-	-	89 J	110 J	0.21 U	150 UJ
Styrene	ug/kg	-	-	-	13 U	13 U	0.24 U	19 UJ
Tetrachloroethene	ug/kg	-	-	-	1100	650	0.33 U	39 UJ
Toluene	ug/kg	-	-	-	56 U	32 U	0.30 U	45 UJ
trans-1,2-Dichloroethene	ug/kg	-	-	-	45 U	47 U	0.34 U	66 UJ
trans-1,3-Dichloropropene	ug/kg	-	-	-	19 UJ	20 UJ	0.19 U	28 UJ
Trichloroethene	ug/kg	-	-	-	130 J	49 U	0.81 J	69 UJ
Trichlorofluoromethane (CFC-11)	ug/kg	-	-	-	43 U	45 U	0.21 U	64 UJ
Trifluorotrichloroethane (CFC-113)	ug/kg	-	-	-	29 UJ	31 UJ	0.43 U	43 UJ

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH168-17**	**BH172-17**	**BH173-17**	**BH173-17**	**BH173-17**	**BH176-18**	**GP25-18**
Sample ID:		**S-38443-122117-JC-024**	**S-38443-120817-JC-007**	**S-38443-122117-JC-021**	**S-38443-122117-JC-022**	**S-38443-122117-JC-023**	**S-38443-051618-JC-072**	**S-38443-012918-JC-066**
Sample Date:		**12/21/2017**	**12/8/2017**	**12/21/2017**	**12/21/2017**	**12/21/2017**	**5/16/2018**	**1/29/2018**
Sample Depth:		**12.5-14.5 ft BGS**	**12-14 ft BGS**	**5-7 ft BGS**	**17.5-19.5 ft BGS**	**17.5-19.5 ft BGS**	**18-20 ft BGS**	**15-16 ft bgs**
						Duplicate		
Parameters	**Units**							
Vinyl chloride	ug/kg	-	-	-	22 U	23 U	0.25 U	32 UJ
Xylenes (total)	ug/kg	-	-	-	36 U	37 U	0.35 U	53 UJ
Semi-Volatiles								
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	-	-	-	11 U	45 U	12 U	-
2,4,5-Trichlorophenol	ug/kg	-	-	-	29 U	120 U	83 U	-
2,4,6-Trichlorophenol	ug/kg	-	-	-	10 U	42 U	77 U	-
2,4-Dichlorophenol	ug/kg	-	-	-	23 U	95 U	53 U	-
2,4-Dimethylphenol	ug/kg	-	-	-	23 U	95 U	48 U	-
2,4-Dinitrophenol	ug/kg	-	-	-	25 U	100 U	170 U	-
2,4-Dinitrotoluene	ug/kg	-	-	-	20 U	81 U	74 U	-
2,6-Dinitrotoluene	ug/kg	-	-	-	25 U	100 U	67 U	-
2-Chloronaphthalene	ug/kg	-	-	-	0.53 U	2.1 U	17 U	-
2-Chlorophenol	ug/kg	-	-	-	9.6 U	39 U	12 U	-
2-Methylnaphthalene	ug/kg	-	-	-	39 J	130 J	7.2 J	-
2-Methylphenol	ug/kg	-	-	-	13 U	52 U	37 U	-
2-Nitroaniline	ug/kg	-	-	-	11 U	43 U	48 U	-
2-Nitrophenol	ug/kg	-	-	-	9.7 U	40 U	16 U	-
3&4-Methylphenol	ug/kg	-	-	-	23 U	95 U	35 U	-
3,3'-Dichlorobenzidine	ug/kg	-	-	-	21 U	86 U	52 U	-
3-Nitroaniline	ug/kg	-	-	-	19 U	76 U	59 U	-
4,6-Dinitro-2-methylphenol	ug/kg	-	-	-	11 U	44 U	96 U	-
4-Bromophenyl phenyl ether	ug/kg	-	-	-	15 U	62 U	17 U	-
4-Chloro-3-methylphenol	ug/kg	-	-	-	25 U	100 U	54 U	-
4-Chloroaniline	ug/kg	-	-	-	20 U	81 U	36 U	-
4-Chlorophenyl phenyl ether	ug/kg	-	-	-	15 U	62 U	17 U	-
4-Methylphenol	ug/kg	-	-	-	-	-	-	-
4-Nitroaniline	ug/kg	-	-	-	30 U	120 U	72 U	-
4-Nitrophenol	ug/kg	-	-	-	20 U	81 U	110 U	-
Acenaphthene	ug/kg	-	-	-	18 J	420 J	5.8 J	-
Acenaphthylene	ug/kg	-	-	-	24	31 J	0.42 U	-
Acetophenone	ug/kg	-	-	-	11 U	44 U	13 U	-
Anthracene	ug/kg	-	-	-	42 J	580 J	11	-
Atrazine	ug/kg	-	-	-	11 U	43 U	43 U	-
Benzaldehyde	ug/kg	-	-	-	14 U	57 U	28 U	-
Benzo(a)anthracene	ug/kg	-	-	-	200 J	1800 J	28	-
Benzo(a)pyrene	ug/kg	-	-	-	200 J	1300 J	23	-
Benzo(b)fluoranthene	ug/kg	-	-	-	290 J	1900 J	30	-
Benzo(g,h,i)perylene	ug/kg	-	-	-	190 J	670 J	18	-
Benzo(k)fluoranthene	ug/kg	-	-	-	110 J	680 J	15	-
Biphenyl (1,1-Biphenyl)	ug/kg	-	-	-	25 J	37 J	20 U	-
bis(2-Chloroethoxy)methane	ug/kg	-	-	-	26 U	100 U	14 U	-
bis(2-Chloroethyl)ether	ug/kg	-	-	-	2.3 U	9.5 U	14 U	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	-	-	-	65 J	1300 J	61 U	-
Butyl benzylphthalate (BBP)	ug/kg	-	-	-	12 U	48 U	26 U	-
Caprolactam	ug/kg	-	-	-	43 U	180 U	90 U	-
Carbazole	ug/kg	-	-	-	32 U	490	23 U	-
Chrysene	ug/kg	-	-	-	220 J	1800 J	30	-

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH168-17**	**BH172-17**	**BH173-17**	**BH173-17**	**BH173-17**	**BH176-18**	**GP25-18**
Sample ID:		**S-38443-122117-JC-024**	**S-38443-120817-JC-007**	**S-38443-122117-JC-021**	**S-38443-122117-JC-022**	**S-38443-122117-JC-023**	**S-38443-051618-JC-072**	**S-38443-012918-JC-066**
Sample Date:		**12/21/2017**	**12/8/2017**	**12/21/2017**	**12/21/2017**	**12/21/2017**	**5/16/2018**	**1/29/2018**
Sample Depth:		**12.5-14.5 ft BGS**	**12-14 ft BGS**	**5-7 ft BGS**	**17.5-19.5 ft BGS**	**17.5-19.5 ft BGS**	**18-20 ft BGS**	**15-16 ft bgs**
						Duplicate		
Parameters	**Units**							
Dibenz(a,h)anthracene	ug/kg	-	-	-	50 J	250 J	0.79 U	-
Dibenzofuran	ug/kg	-	-	-	38 J	160 J	16 U	-
Diethyl phthalate	ug/kg	-	-	-	39 U	76 U	37 U	-
Dimethyl phthalate	ug/kg	-	-	-	20 U	81 U	17 U	-
Di-n-butylphthalate (DBP)	ug/kg	-	-	-	29 J	71 U	26 U	-
Di-n-octyl phthalate (DnOP)	ug/kg	-	-	-	9.3 U	38 U	34 U	-
Fluoranthene	ug/kg	-	-	-	380 J	4300 J	62	-
Fluorene	ug/kg	-	-	-	11 J	270 J	5.8 J	-
Hexachlorobenzene	ug/kg	-	-	-	2.5 U	10 U	2.5 U	-
Hexachlorobutadiene	ug/kg	-	-	-	6.6 U	27 U	14 U	-
Hexachlorocyclopentadiene	ug/kg	-	-	-	9.5 U	39 U	74 U	-
Hexachloroethane	ug/kg	-	-	-	11 U	43 U	11 U	-
Indeno(1,2,3-cd)pyrene	ug/kg	-	-	-	140 J	630 J	10	-
Isophorone	ug/kg	-	-	-	15 U	62 U	14 U	-
Naphthalene	ug/kg	-	-	-	39 J	150 J	8.9	-
Nitrobenzene	ug/kg	-	-	-	2.6 U	10 U	16 U	-
N-Nitrosodi-n-propylamine	ug/kg	-	-	-	7.4 U	30 U	13 U	-
N-Nitrosodiphenylamine	ug/kg	-	-	-	25 U	100 U	14 U	-
Pentachlorophenol	ug/kg	-	-	-	11 U	43 U	70 U	-
Phenanthrene	ug/kg	-	-	-	190 J	2600 J	49	-
Phenol	ug/kg	-	-	-	25 J	35 U	9.6 U	-
Pyrene	ug/kg	-	-	-	310 J	3400 J	51	-
Metals								
Aluminum	mg/kg	-	-	-	11000	8300	12000	-
Antimony	mg/kg	-	-	-	16	41	1.9 J	-
Arsenic	mg/kg	-	-	-	26	26	11	-
Barium	mg/kg	-	-	-	1300	860	110 J	-
Beryllium	mg/kg	-	-	-	0.72	0.78	0.72	-
Cadmium	mg/kg	-	-	-	18	21	0.43	-
Calcium	mg/kg	-	-	-	40000	31000	11000	-
Chromium	mg/kg	79	6.2	24	290	110	14	-
Chromium III (trivalent)	mg/kg	79	6.2	24	270	110	14	-
Chromium VI (hexavalent)	mg/kg	2.8 U	0.34 U	2.8 U	16	6.1 J	1.4 U	-
Cobalt	mg/kg	-	-	-	53	21	7.2	-
Copper	mg/kg	-	-	-	3600	1400	19	-
Iron	mg/kg	-	-	-	81000	57000	20000	-
Lead	mg/kg	-	-	-	4900	3500	28 J	-
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-
Magnesium	mg/kg	-	-	-	17000	10000	7200	-

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH168-17**	**BH172-17**	**BH173-17**	**BH173-17**	**BH173-17**	**BH176-18**	**GP25-18**
Sample ID:		**S-38443-122117-JC-024**	**S-38443-120817-JC-007**	**S-38443-122117-JC-021**	**S-38443-122117-JC-022**	**S-38443-122117-JC-023**	**S-38443-051618-JC-072**	**S-38443-012918-JC-066**
Sample Date:		**12/21/2017**	**12/8/2017**	**12/21/2017**	**12/21/2017**	**12/21/2017**	**5/16/2018**	**1/29/2018**
Sample Depth:		**12.5-14.5 ft BGS**	**12-14 ft BGS**	**5-7 ft BGS**	**17.5-19.5 ft BGS**	**17.5-19.5 ft BGS**	**18-20 ft BGS**	**15-16 ft bgs**
						Duplicate		
Parameters	**Units**							
Manganese	mg/kg	-	-	-	760	800	620	-
Mercury	mg/kg	-	-	-	0.70	1.5	0.032 J	-
Nickel	mg/kg	-	-	-	180	93	16	-
Potassium	mg/kg	-	-	-	1600	1100	1100	-
Selenium	mg/kg	-	-	-	2.4	2.7	0.43 J	-
Silver	mg/kg	-	-	-	3.7	3.1	0.041 J	-
Sodium	mg/kg	-	-	-	600	450	65 J	-
Thallium	mg/kg	-	-	-	0.41	0.44	0.19 J	-
Vanadium	mg/kg	-	-	-	170	98	27	-
Zinc	mg/kg	-	-	-	1600	1300	65	-
PCBs								
Aroclor-1016 (PCB-1016)	ug/kg	-	-	-	26 U	27 U	26 U	-
Aroclor-1221 (PCB-1221)	ug/kg	-	-	-	28 U	29 U	28 U	-
Aroclor-1232 (PCB-1232)	ug/kg	-	-	-	27 U	28 U	27 U	-
Aroclor-1242 (PCB-1242)	ug/kg	-	-	-	22 U	23 U	23 U	-
Aroclor-1248 (PCB-1248)	ug/kg	-	-	-	28 U	29 U	28 U	-
Aroclor-1254 (PCB-1254)	ug/kg	-	-	-	150 J	71 J	27 U	-
Aroclor-1260 (PCB-1260)	ug/kg	-	-	-	26 U	27 U	26 U	-
Pesticides								
4,4'-DDD	ug/kg	-	-	-	6.8 NJ	38 U	1.8 U	-
4,4'-DDE	ug/kg	-	-	-	3.8 NJ	14 U	1.8 U	-
4,4'-DDT	ug/kg	-	-	-	16	16 U	1.4 U	-
Aldrin	ug/kg	-	-	-	2.8 U	28 U	0.93 U	-
alpha-BHC	ug/kg	-	-	-	1.9 U	19 U	1.1 U	-
alpha-Chlordane	ug/kg	-	-	-	4.5 U	44 U	1.8 U	-
beta-BHC	ug/kg	-	-	-	4.6 U	45 U	2.1 U	-
delta-BHC	ug/kg	-	-	-	1.5 U	15 U	2.0 U	-
Dieldrin	ug/kg	-	-	-	1.1 U	10 U	1.3 U	-
Endosulfan I	ug/kg	-	-	-	1.5 J	15 U	1.4 U	-
Endosulfan II	ug/kg	-	-	-	2.1 U	21 U	1.8 U	-
Endosulfan sulfate	ug/kg	-	-	-	1.4 U	14 U	1.5 U	-
Endrin	ug/kg	-	-	-	1.6 U	16 U	2.3 U	-
Endrin aldehyde	ug/kg	-	-	-	2.1 U	21 U	1.6 U	-
Endrin ketone	ug/kg	-	-	-	1.3 U	13 U	1.1 U	-
gamma-BHC (lindane)	ug/kg	-	-	-	3.4 U	34 U	2.2 U	-
gamma-Chlordane	ug/kg	-	-	-	1.8 U	17 U	1.5 U	-
Heptachlor	ug/kg	-	-	-	0.92 U	9.1 U	1.9 U	-
Heptachlor epoxide	ug/kg	-	-	-	2.8 U	28 U	1.7 U	-
Methoxychlor	ug/kg	-	-	-	1.4 U	14 U	7.9 U	-
Toxaphene	ug/kg	-	-	-	44 U	430 U	30 U	-
Herbicides								
2,4,5-T	ug/kg	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/kg	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	-	-	-	-	-	-	-

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH168-17**	**BH172-17**	**BH173-17**	**BH173-17**	**BH173-17**	**BH176-18**	**GP25-18**
Sample ID:		**S-38443-122117-JC-024**	**S-38443-120817-JC-007**	**S-38443-122117-JC-021**	**S-38443-122117-JC-022**	**S-38443-122117-JC-023**	**S-38443-051618-JC-072**	**S-38443-012918-JC-066**
Sample Date:		**12/21/2017**	**12/8/2017**	**12/21/2017**	**12/21/2017**	**12/21/2017**	**5/16/2018**	**1/29/2018**
Sample Depth:		**12.5-14.5 ft BGS**	**12-14 ft BGS**	**5-7 ft BGS**	**17.5-19.5 ft BGS**	**17.5-19.5 ft BGS**	**18-20 ft BGS**	**15-16 ft bgs**
						Duplicate		
Parameters	**Units**							
Dioxin/Furans								
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Asbestos								
Asbestos	%	-	-	-	-	-	-	-
Chrysotile asbestos	%	-	-	-	8	-	-	-
Geotechnical								
Coarse sand	%	-	-	-	-	-	-	8.5
Fine sand	%	-	-	-	-	-	-	25.4
Fines	%	-	-	-	-	-	-	34.1
Gravel	%	-	-	-	-	-	-	15.7
Medium sand	%	-	-	-	-	-	-	16.3
Sand	%	-	-	-	-	-	-	50.2
Sieve, #4	% passed	-	-	-	-	-	-	84.3
Sieve, #10	% passed	-	-	-	-	-	-	75.8
Sieve, #20	% passed	-	-	-	-	-	-	68.2
Sieve, #40	% passed	-	-	-	-	-	-	59.5
Sieve, #60	% passed	-	-	-	-	-	-	51.6
Sieve, #80	% passed	-	-	-	-	-	-	46.9
Sieve, #100	% passed	-	-	-	-	-	-	43.8
Sieve, #200	% passed	-	-	-	-	-	-	34.1
Sieve, 0.375 inch	% passed	-	-	-	-	-	-	94.6

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH168-17**	**BH172-17**	**BH173-17**	**BH173-17**	**BH173-17**	**BH176-18**	**GP25-18**
Sample ID:		**S-38443-122117-JC-024**	**S-38443-120817-JC-007**	**S-38443-122117-JC-021**	**S-38443-122117-JC-022**	**S-38443-122117-JC-023**	**S-38443-051618-JC-072**	**S-38443-012918-JC-066**
Sample Date:		**12/21/2017**	**12/8/2017**	**12/21/2017**	**12/21/2017**	**12/21/2017**	**5/16/2018**	**1/29/2018**
Sample Depth:		**12.5-14.5 ft BGS**	**12-14 ft BGS**	**5-7 ft BGS**	**17.5-19.5 ft BGS**	**17.5-19.5 ft BGS**	**18-20 ft BGS**	**15-16 ft bgs**
						Duplicate		
Parameters	**Units**							
Sieve, 0.75 inch	% passed	-	-	-	-	-	-	100.0
Sieve, 1 inch	% passed	-	-	-	-	-	-	100.0
Sieve, 1.5 inch	% passed	-	-	-	-	-	-	100.0
Sieve, 2 inch	% passed	-	-	-	-	-	-	100.0
Sieve, 3 inch	% passed	-	-	-	-	-	-	100.0
General Chemistry								
Cyanide (total)	mg/kg	-	-	-	0.53 J	0.41 J	0.24 U	-
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	10.5
Total solids	%	-	-	-	-	-	-	-

Notes
< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
D - Compounds at secondary dilution factor.
E - Estimated because of the presence of interference (Inorganics).
E - Exceed calibration range of GC/MS instrument (Organics).
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%. The
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**GP26-18**	**GP27-18**	**GP28-18**	**GP29-18**	**S1(EPA)**	**S3(EPA)**	**S4(EPA)**	**S5(EPA)**	**S6(EPA)**	**S7(EPA)**
Sample ID:		**S-38443-012918-JC-065**	**S-38443-013018-JC-067**	**S-38443-013018-JC-068**	**S-38443-013018-JC-069**	**S1**	**S3**	**S4**	**S5**	**S6**	**S7**
Sample Date:		**1/29/2018**	**1/30/2018**	**1/30/2018**	**1/30/2018**	**10/23/1990**	**10/23/1990**	**10/23/1990**	**10/23/1990**	**10/23/1990**	**10/23/1990**
Sample Depth:		**13.5-14.5 ft bgs**	**7-8 ft bgs**	**15-16 ft bgs**	**9-10 ft bgs**	**1-2 ft BGS**	**0-1 ft BGS**	**0-1 ft BGS**	**1-2 ft BGS**	**0-1 ft BGS**	**0-1 ft BGS**
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	ug/kg	0.25 U	41 U	13000 U	0.23 UJ	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	ug/kg	0.29 U	35 U	11000 U	0.26 U	-	-	-	-	-	-
1,1,2-Trichloroethane	ug/kg	0.43 U	33 U	11000 U	0.39 U	-	-	-	-	-	-
1,1-Dichloroethane	ug/kg	0.36 U	45 U	15000 U	0.33 U	-	-	-	-	-	-
1,1-Dichloroethene	ug/kg	0.60 U	52 U	17000 U	0.54 U	-	-	-	-	-	-
1,2,4-Trichlorobenzene	ug/kg	0.98 J	38 U	12000 U	0.24 U	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	0.75 U	69 U	23000 U	0.68 U	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	0.39 U	33 U	11000 U	0.35 U	-	-	-	-	-	-
1,2-Dichlorobenzene	ug/kg	0.24 U	200 J	8500 U	0.22 U	-	-	-	-	-	-
1,2-Dichloroethane	ug/kg	0.32 U	43 U	14000 U	0.29 U	-	-	-	-	-	-
1,2-Dichloroethene (total)	ug/kg	-	-	-	-	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	ug/kg	0.34 U	43 U	14000 U	0.31 U	-	-	-	-	-	-
1,3-Dichlorobenzene	ug/kg	0.32 U	55 U	18000 U	0.29 U	-	-	-	-	-	-
1,4-Dichlorobenzene	ug/kg	0.39 U	2900	13000 U	0.35 U	-	-	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	6.3 J	270 J	24000 U	12 J	2 J	10 U	10 U	1 J	10 U	10 U
2-Hexanone	ug/kg	0.64 U	120 U	40000 U	0.58 U	-	-	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	0.98 U	58 U	19000 U	0.88 U	10 U	10 U	10 U	10 U	36 J	10 U
Acetone	ug/kg	15 J	880 J	46000 U	44 U	5 U	5 U	5 U	5 U	25 J	5 U
Benzene	ug/kg	0.35 U	35 U	11000 U	0.36 J	-	-	-	-	-	-
Bromodichloromethane	ug/kg	0.36 U	26 U	8500 U	0.33 U	-	-	-	-	-	-
Bromoform	ug/kg	0.44 U	33 U	11000 U	0.40 U	-	-	-	-	-	-
Bromomethane (Methyl bromide)	ug/kg	0.65 U	41 U	13000 U	0.59 U	-	-	-	-	-	-
Carbon disulfide	ug/kg	0.23 U	26 U	8500 U	0.21 U	-	-	-	-	-	-
Carbon tetrachloride	ug/kg	0.28 U	39 U	13000 U	0.25 U	-	-	-	-	-	-
Chlorobenzene	ug/kg	5.4 J	1900	14000 U	0.33 U	-	-	-	-	-	-
Chloroethane	ug/kg	0.42 U	41 U	13000 U	0.38 U	-	-	-	-	-	-
Chloroform (Trichloromethane)	ug/kg	0.25 U	35 U	11000 U	0.23 U	-	-	-	-	-	-
Chloromethane (Methyl chloride)	ug/kg	0.42 U	26 U	8500 U	0.38 U	-	-	-	-	-	-
cis-1,2-Dichloroethene	ug/kg	0.31 U	51 U	16000 U	0.88 J	-	-	-	-	-	-
cis-1,3-Dichloropropene	ug/kg	0.29 U	33 U	11000 U	0.26 U	-	-	-	-	-	-
Cyclohexane	ug/kg	0.23 U	43 U	14000 U	0.21 U	-	-	-	-	-	-
Dibromochloromethane	ug/kg	0.33 U	49 U	16000 U	0.30 U	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	ug/kg	0.39 U	32 U	10000 U	0.35 UJ	-	-	-	-	-	-
Ethylbenzene	ug/kg	0.30 U	51 U	350000	0.44 J	-	-	-	-	-	-
Isopropyl benzene	ug/kg	0.65 J	49 U	16000 U	1.4 J	-	-	-	-	-	-
Methyl acetate	ug/kg	1.3 U	260 J	35000 U	1.2 U	-	-	-	-	-	-
Methyl cyclohexane	ug/kg	0.25 U	54 U	17000 U	0.23 U	-	-	-	-	-	-
Methyl tert butyl ether (MTBE)	ug/kg	0.30 U	38 U	12000 U	0.27 U	-	-	-	-	-	-
Methylene chloride	ug/kg	1.7 U	240 U	33000 U	1.8 UJ	-	-	-	-	-	-
Styrene	ug/kg	0.30 U	14 U	4700 U	0.27 U	-	-	-	-	-	-
Tetrachloroethene	ug/kg	0.41 U	30 U	9900 U	0.37 U	5 U	5 U	5 U	5 U	5 U	5 U
Toluene	ug/kg	0.56 J	46 J	11000 U	0.60 J	3 J	5 U	5 U	7	9 J	4 J
trans-1,2-Dichloroethene	ug/kg	0.42 U	51 U	16000 U	0.38 U	-	-	-	-	-	-
trans-1,3-Dichloropropene	ug/kg	0.23 U	22 U	7100 U	0.21 U	-	-	-	-	-	-
Trichloroethene	ug/kg	0.45 U	54 U	17000 U	0.41 U	5 U	5 U	5 U	5 U	5 U	5 U
Trichlorofluoromethane (CFC-11)	ug/kg	0.27 U	49 U	16000 U	0.24 U	-	-	-	-	-	-
Trifluorotrichloroethane (CFC-113)	ug/kg	0.54 U	33 U	11000 U	0.49 U	-	-	-	-	-	-

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**GP26-18**	**GP27-18**	**GP28-18**	**GP29-18**	**S1(EPA)**	**S3(EPA)**	**S4(EPA)**	**S5(EPA)**	**S6(EPA)**	**S7(EPA)**
Sample ID:		**S-38443-012918-JC-065**	**S-38443-013018-JC-067**	**S-38443-013018-JC-068**	**S-38443-013018-JC-069**	**S1**	**S3**	**S4**	**S5**	**S6**	**S7**
Sample Date:		**1/29/2018**	**1/30/2018**	**1/30/2018**	**1/30/2018**	**10/23/1990**	**10/23/1990**	**10/23/1990**	**10/23/1990**	**10/23/1990**	**10/23/1990**
Sample Depth:		**13.5-14.5 ft bgs**	**7-8 ft bgs**	**15-16 ft bgs**	**9-10 ft bgs**	**1-2 ft BGS**	**0-1 ft BGS**	**0-1 ft BGS**	**1-2 ft BGS**	**0-1 ft BGS**	**0-1 ft BGS**
Parameters	**Units**										
Vinyl chloride	ug/kg	0.31 U	25 U	8000 U	0.28 U	-	-	-	-	-	-
Xylenes (total)	ug/kg	0.44 U	160 J	3000000	1.4 J	5 U	5 U	5 U	5 U	3 J	5 U
Semi-Volatiles											
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	ug/kg	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	ug/kg	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	ug/kg	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	ug/kg	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	ug/kg	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	ug/kg	-	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	ug/kg	-	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	ug/kg	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	ug/kg	-	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	ug/kg	-	-	-	-	1800	500 J	330 U	950	130 J	750 J
2-Methylphenol	ug/kg	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	ug/kg	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	ug/kg	-	-	-	-	-	-	-	-	-	-
3&4-Methylphenol	ug/kg	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/kg	-	-	-	-	-	-	-	-	-	-
3-Nitroaniline	ug/kg	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	ug/kg	-	-	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	ug/kg	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	ug/kg	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	ug/kg	-	-	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	ug/kg	-	-	-	-	-	-	-	-	-	-
4-Methylphenol	ug/kg	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	ug/kg	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	ug/kg	-	-	-	-	-	-	-	-	-	-
Acenaphthene	ug/kg	-	-	-	-	330 U	680 J	330 U	330 U	1200	95 J
Acenaphthylene	ug/kg	-	-	-	-	-	-	-	-	-	-
Acetophenone	ug/kg	-	-	-	-	-	-	-	-	-	-
Anthracene	ug/kg	-	-	-	-	120 J	2900	330 U	330 U	3000	300 J
Atrazine	ug/kg	-	-	-	-	-	-	-	-	-	-
Benzaldehyde	ug/kg	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	ug/kg	-	-	-	-	310 J	8500	330 U	170 J	6900	1100
Benzo(a)pyrene	ug/kg	-	-	-	-	230 J	5700	330 U	150 J	4800	1100
Benzo(b)fluoranthene	ug/kg	-	-	-	-	230 J	9500	330 U	320 J	7800	2900
Benzo(g,h,i)perylene	ug/kg	-	-	-	-	150 J	4700	330 U	250 J	3600	910
Benzo(k)fluoranthene	ug/kg	-	-	-	-	430 J	6400	330 U	330 U	5500	330 U
Biphenyl (1,1-Biphenyl)	ug/kg	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	ug/kg	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	ug/kg	-	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	-	-	-	-	330 U	360 J	330 U	330 U	330 U	330 U
Butyl benzylphthalate (BBP)	ug/kg	-	-	-	-	330 U	330 U	330 U	330 U	330 U	950
Caprolactam	ug/kg	-	-	-	-	-	-	-	-	-	-
Carbazole	ug/kg	-	-	-	-	-	-	-	-	-	-
Chrysene	ug/kg	-	-	-	-	380 J	5700 J	330 U	300 J	6400 J	1100 J

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**GP26-18**	**GP27-18**	**GP28-18**	**GP29-18**	**S1(EPA)**	**S3(EPA)**	**S4(EPA)**	**S5(EPA)**	**S6(EPA)**	**S7(EPA)**
Sample ID:		**S-38443-012918-JC-065**	**S-38443-013018-JC-067**	**S-38443-013018-JC-068**	**S-38443-013018-JC-069**	**S1**	**S3**	**S4**	**S5**	**S6**	**S7**
Sample Date:		**1/29/2018**	**1/30/2018**	**1/30/2018**	**1/30/2018**	**10/23/1990**	**10/23/1990**	**10/23/1990**	**10/23/1990**	**10/23/1990**	**10/23/1990**
Sample Depth:		**13.5-14.5 ft bgs**	**7-8 ft bgs**	**15-16 ft bgs**	**9-10 ft bgs**	**1-2 ft BGS**	**0-1 ft BGS**	**0-1 ft BGS**	**1-2 ft BGS**	**0-1 ft BGS**	**0-1 ft BGS**
Parameters	**Units**										
Dibenz(a,h)anthracene	ug/kg	-	-	-	-	330 U	1200	330 U	330 U	1600	230 J
Dibenzofuran	ug/kg	-	-	-	-	370 J	830 J	330 U	290 J	780 J	200 J
Diethyl phthalate	ug/kg	-	-	-	-	-	-	-	-	-	-
Dimethyl phthalate	ug/kg	-	-	-	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	ug/kg	-	-	-	-	330 U	330 U	330 U	330 U	330 U	110 J
Di-n-octyl phthalate (DnOP)	ug/kg	-	-	-	-	-	-	-	-	-	-
Fluoranthene	ug/kg	-	-	-	-	680 J	12000	330 U	370 J	21000 D	2800
Fluorene	ug/kg	-	-	-	-	330 U	1500	330 U	330 U	1200	82 J
Hexachlorobenzene	ug/kg	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	ug/kg	-	-	-	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	ug/kg	-	-	-	-	-	-	-	-	-	-
Hexachloroethane	ug/kg	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/kg	-	-	-	-	96 J	5000	330 U	150 J	4100	910
Isophorone	ug/kg	-	-	-	-	-	-	-	-	-	-
Naphthalene	ug/kg	-	-	-	-	1100	290 J	330 U	500 J	260 J	450 J
Nitrobenzene	ug/kg	-	-	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	ug/kg	-	-	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	ug/kg	-	-	-	-	330 U	450 J	330 U	330 U	330 U	330 U
Pentachlorophenol	ug/kg	-	-	-	-	-	-	-	-	-	-
Phenanthrene	ug/kg	-	-	-	-	850 J	16000 D	330 U	980	14000	1500
Phenol	ug/kg	-	-	-	-	-	-	-	-	-	-
Pyrene	ug/kg	-	-	-	-	580 J	8100	330 U	300 J	13000	1900
Metals											
Aluminum	mg/kg	-	-	-	-	5730	4740	3360	1990	4620	2970
Antimony	mg/kg	-	-	-	-	2.4 U	31.6	2.4 U	2.4 U	2.4 U	13.2 B
Arsenic	mg/kg	-	-	-	-	23.9	8.3	12.6	10.3	11.1	8.9
Barium	mg/kg	-	-	-	-	991	157	117	81	167	130
Beryllium	mg/kg	-	-	-	-	0.72 B	0.7 B	1.7	0.47 B	2	0.72 B
Cadmium	mg/kg	-	-	-	-	1.3	14	1 U	1 B	1 U	5.9
Calcium	mg/kg	-	-	-	-	33800	4790	1260	1710	2650	4460
Chromium	mg/kg	-	-	-	-	18.5	91.7	6.3	11	8.6	20.6
Chromium III (trivalent)	mg/kg	-	-	-	-	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-	-	-	-	-
Cobalt	mg/kg	-	-	-	-	3.7 B	5.6 B	8.8 B	5 B	8.2 B	5.2 B
Copper	mg/kg	-	-	-	-	66.8	2220 EJ	56.7 EJ	74.1 EJ	47.4 EJ	316 EJ
Iron	mg/kg	-	-	-	-	15900 EJ	77000	2840	4230	5630	14800
Lead	mg/kg	-	-	-	-	64.1	3300	10.4	59.3	15.9	474
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-	-	-	-
Magnesium	mg/kg	-	-	-	-	6270	2660	294 B	439 B	537 B	2580

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**GP26-18**	**GP27-18**	**GP28-18**	**GP29-18**	**S1(EPA)**	**S3(EPA)**	**S4(EPA)**	**S5(EPA)**	**S6(EPA)**	**S7(EPA)**
Sample ID:		**S-38443-012918-JC-065**	**S-38443-013018-JC-067**	**S-38443-013018-JC-068**	**S-38443-013018-JC-069**	**S1**	**S3**	**S4**	**S5**	**S6**	**S7**
Sample Date:		**1/29/2018**	**1/30/2018**	**1/30/2018**	**1/30/2018**	**10/23/1990**	**10/23/1990**	**10/23/1990**	**10/23/1990**	**10/23/1990**	**10/23/1990**
Sample Depth:		**13.5-14.5 ft bgs**	**7-8 ft bgs**	**15-16 ft bgs**	**9-10 ft bgs**	**1-2 ft BGS**	**0-1 ft BGS**	**0-1 ft BGS**	**1-2 ft BGS**	**0-1 ft BGS**	**0-1 ft BGS**
Parameters	**Units**										
Manganese	mg/kg	-	-	-	-	309	437	7.2	55.2	27	130
Mercury	mg/kg	-	-	-	-	0.008 U	0.31	0.008 U	0.008 U	0.008 U	0.008 U
Nickel	mg/kg	-	-	-	-	28.9	262	13.6	17.2	17.2	94.7
Potassium	mg/kg	-	-	-	-	729 B	569 B	364 B	329 B	429 B	232 B
Selenium	mg/kg	-	-	-	-	2.2	0.91 B	1.6	2.2	1.7	2.4
Silver	mg/kg	-	-	-	-	2 U	2 U	2 U	2 U	2 U	2 U
Sodium	mg/kg	-	-	-	-	157 B	114 B	118 B	43.7 B	81 B	64.4 B
Thallium	mg/kg	-	-	-	-	2 U	2 U	2 U	2 U	2 U	2 U
Vanadium	mg/kg	-	-	-	-	18.2	33.9	27.9	11.5 B	28.1	16
Zinc	mg/kg	-	-	-	-	112	2350	9.2	57.6	14.4	2210
PCBs											
Aroclor-1016 (PCB-1016)	ug/kg	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	ug/kg	-	-	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	ug/kg	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	ug/kg	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/kg	-	-	-	-	360 X	80 U	80 U	540 X	80 U	80 U
Aroclor-1254 (PCB-1254)	ug/kg	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/kg	-	-	-	-	300 JX	580 JX	160 U	110 JX	160 U	1400 X
Pesticides											
4,4'-DDD	ug/kg	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	ug/kg	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	ug/kg	-	-	-	-	-	-	-	-	-	-
Aldrin	ug/kg	-	-	-	-	-	-	-	-	-	-
alpha-BHC	ug/kg	-	-	-	-	-	-	-	-	-	-
alpha-Chlordane	ug/kg	-	-	-	-	-	-	-	-	-	-
beta-BHC	ug/kg	-	-	-	-	-	-	-	-	-	-
delta-BHC	ug/kg	-	-	-	-	-	-	-	-	-	-
Dieldrin	ug/kg	-	-	-	-	-	-	-	-	-	-
Endosulfan I	ug/kg	-	-	-	-	-	-	-	-	-	-
Endosulfan II	ug/kg	-	-	-	-	-	-	-	-	-	-
Endosulfan sulfate	ug/kg	-	-	-	-	-	-	-	-	-	-
Endrin	ug/kg	-	-	-	-	-	-	-	-	-	-
Endrin aldehyde	ug/kg	-	-	-	-	-	-	-	-	-	-
Endrin ketone	ug/kg	-	-	-	-	-	-	-	-	-	-
gamma-BHC (lindane)	ug/kg	-	-	-	-	-	-	-	-	-	-
gamma-Chlordane	ug/kg	-	-	-	-	-	-	-	-	-	-
Heptachlor	ug/kg	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	ug/kg	-	-	-	-	-	-	-	-	-	-
Methoxychlor	ug/kg	-	-	-	-	-	-	-	-	-	-
Toxaphene	ug/kg	-	-	-	-	-	-	-	-	-	-
Herbicides											
2,4,5-T	ug/kg	-	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/kg	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	-	-	-	-	-	-	-	-	-	-

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**GP26-18**	**GP27-18**	**GP28-18**	**GP29-18**	**S1(EPA)**	**S3(EPA)**	**S4(EPA)**	**S5(EPA)**	**S6(EPA)**	**S7(EPA)**
Sample ID:		**S-38443-012918-JC-065**	**S-38443-013018-JC-067**	**S-38443-013018-JC-068**	**S-38443-013018-JC-069**	**S1**	**S3**	**S4**	**S5**	**S6**	**S7**
Sample Date:		**1/29/2018**	**1/30/2018**	**1/30/2018**	**1/30/2018**	**10/23/1990**	**10/23/1990**	**10/23/1990**	**10/23/1990**	**10/23/1990**	**10/23/1990**
Sample Depth:		**13.5-14.5 ft bgs**	**7-8 ft bgs**	**15-16 ft bgs**	**9-10 ft bgs**	**1-2 ft BGS**	**0-1 ft BGS**	**0-1 ft BGS**	**1-2 ft BGS**	**0-1 ft BGS**	**0-1 ft BGS**
Parameters	**Units**										
Dioxin/Furans											
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-	-	-	-
Asbestos											
Asbestos	%	-	-	-	-	-	-	-	-	-	-
Chrysotile asbestos	%	-	-	-	-	-	-	-	-	-	-
Geotechnical											
Coarse sand	%	5.0	18.3	2.8	5.0	-	-	-	-	-	-
Fine sand	%	10.5	21.5	41.9	56.9	-	-	-	-	-	-
Fines	%	50.3	18.4	9.9	12.0	-	-	-	-	-	-
Gravel	%	24.1	23.7	34.5	5.6	-	-	-	-	-	-
Medium sand	%	10.1	18.1	10.9	20.5	-	-	-	-	-	-
Sand	%	25.6	57.9	55.6	82.4	-	-	-	-	-	-
Sieve, #4	% passed	75.9	76.3	65.5	94.4	-	-	-	-	-	-
Sieve, #10	% passed	70.9	58.0	62.7	89.4	-	-	-	-	-	-
Sieve, #20	% passed	65.6	49.2	60.7	87.0	-	-	-	-	-	-
Sieve, #40	% passed	60.8	39.9	51.8	68.9	-	-	-	-	-	-
Sieve, #60	% passed	57.0	33.4	30.1	34.7	-	-	-	-	-	-
Sieve, #80	% passed	54.8	29.4	19.2	23.1	-	-	-	-	-	-
Sieve, #100	% passed	53.6	26.7	15.5	18.5	-	-	-	-	-	-
Sieve, #200	% passed	50.3	18.4	9.9	12.0	-	-	-	-	-	-
Sieve, 0.375 inch	% passed	80.0	87.6	69.4	97.6	-	-	-	-	-	-

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**GP26-18**	**GP27-18**	**GP28-18**	**GP29-18**	**S1(EPA)**	**S3(EPA)**	**S4(EPA)**	**S5(EPA)**	**S6(EPA)**	**S7(EPA)**
Sample ID:		**S-38443-012918-JC-065**	**S-38443-013018-JC-067**	**S-38443-013018-JC-068**	**S-38443-013018-JC-069**	**S1**	**S3**	**S4**	**S5**	**S6**	**S7**
Sample Date:		**1/29/2018**	**1/30/2018**	**1/30/2018**	**1/30/2018**	**10/23/1990**	**10/23/1990**	**10/23/1990**	**10/23/1990**	**10/23/1990**	**10/23/1990**
Sample Depth:		**13.5-14.5 ft bgs**	**7-8 ft bgs**	**15-16 ft bgs**	**9-10 ft bgs**	**1-2 ft BGS**	**0-1 ft BGS**	**0-1 ft BGS**	**1-2 ft BGS**	**0-1 ft BGS**	**0-1 ft BGS**
Parameters	**Units**										
Sieve, 0.75 inch	% passed	100.0	100.0	73.5	100.0	-	-	-	-	-	-
Sieve, 1 inch	% passed	100.0	100.0	84.6	100.0	-	-	-	-	-	-
Sieve, 1.5 inch	% passed	100.0	100.0	100.0	100.0	-	-	-	-	-	-
Sieve, 2 inch	% passed	100.0	100.0	100.0	100.0	-	-	-	-	-	-
Sieve, 3 inch	% passed	100.0	100.0	100.0	100.0	-	-	-	-	-	-
General Chemistry											
Cyanide (total)	mg/kg	-	-	-	-	-	-	-	-	-	-
Fraction organic carbon (FOC)	%	2.2	6.9	0.7	3.0	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-	-	-	-

Notes
< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
D - Compounds at secondary dilution factor.
E - Estimated because of the presence of interference (Inorganics).
E - Exceed calibration range of GC/MS instrument (Organics).
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%. The
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**S8(EPA)**	**S9(EPA)**	**S11(EPA)**	**S01(OEPA)**	**S02(OEPA)**	**S04(OEPA)**	**S06(OEPA)**	**S09(OEPA)**	**S10(OEPA)**	**S11(OEPA)**
Sample ID:		**S8**	**S9**	**S11**	**96-DV-03-S01**	**96-DV-03-S02**	**96-DV-03-S04**	**96-DV-03-S06**	**96-DV-03-S09**	**96-DV-03-S10**	**96-DV-03-S11**
Sample Date:		**10/23/1990**	**10/23/1990**	**10/23/1990**	**7/9/1996**	**7/9/1996**	**7/9/1996**	**7/9/1996**	**7/9/1996**	**7/9/1996**	**7/9/1996**
Sample Depth:		**0-1 ft BGS**	**0-1 ft BGS**	**0-1 ft BGS**	**4-4.6 ft BGS**	**0-0.1 ft BGS**	**1.5-2 ft BGS**	**1.5-2.5 ft BGS**	**0.3-0.5 ft BGS**	**0-0.3 ft BGS**	**0.2-0.3 ft BGS**
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	ug/kg	-	-	-	12 U	10 U	16 U	16 U	11 U	12 U	11 U
1,1,2,2-Tetrachloroethane	ug/kg	-	-	-	12 U	10 U	16 U	16 U	11 U	12 U	11 U
1,1,2-Trichloroethane	ug/kg	-	-	-	12 U	10 U	16 U	16 U	11 U	12 U	11 U
1,1-Dichloroethane	ug/kg	-	-	-	12 U	10 U	16 U	16 U	11 U	12 U	11 U
1,1-Dichloroethene	ug/kg	-	-	-	12 U	10 U	16 U	16 U	11 U	12 U	11 U
1,2,4-Trichlorobenzene	ug/kg	-	-	-	410 U	340 U	520 U	530 U	350 U	400 U	360 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	ug/kg	-	-	-	410 U	340 U	520 U	530 U	350 U	400 U	360 U
1,2-Dichloroethane	ug/kg	-	-	-	12 U	10 U	16 U	16 U	11 U	12 U	11 U
1,2-Dichloroethene (total)	ug/kg	200	5 U	5 U	12 U	10 U	16 U	16 U	11 U	12 U	11 U
1,2-Dichloropropane	ug/kg	-	-	-	12 U	10 U	16 U	16 U	11 U	12 U	11 U
1,3-Dichlorobenzene	ug/kg	-	-	-	410 U	340 U	520 U	530 U	350 U	400 U	360 U
1,4-Dichlorobenzene	ug/kg	-	-	-	140 J	340 U	520 U	530 U	350 U	400 U	360 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	10 U	10 U	10 U	12 U	10 U	16 U	16 U	11 U	12 U	11 U
2-Hexanone	ug/kg	-	-	-	12 U	10 U	16 U	16 U	11 U	12 U	11 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	10 U	10 U	10 U	12 U	10 U	16 U	16 U	11 U	12 U	11 U
Acetone	ug/kg	5 U	5 U	5 U	12 U	10 U	16 U	16 U	11 U	12 U	11 U
Benzene	ug/kg	-	-	-	12 U	10 U	16 U	16 U	11 U	12 U	11 U
Bromodichloromethane	ug/kg	-	-	-	12 U	10 U	16 U	16 U	11 U	12 U	11 U
Bromoform	ug/kg	-	-	-	12 U	10 U	16 U	16 U	11 U	12 U	11 U
Bromomethane (Methyl bromide)	ug/kg	-	-	-	12 U	10 U	16 U	16 U	11 U	12 U	11 U
Carbon disulfide	ug/kg	-	-	-	12 U	10 U	16 U	16 U	11 U	12 U	11 U
Carbon tetrachloride	ug/kg	-	-	-	12 U	10 U	16 U	16 U	11 U	12 U	11 U
Chlorobenzene	ug/kg	-	-	-	12 U	10 U	16 U	16 U	11 U	12 U	11 U
Chloroethane	ug/kg	-	-	-	12 U	10 U	16 U	16 U	11 U	12 U	11 U
Chloroform (Trichloromethane)	ug/kg	-	-	-	12 U	10 U	16 U	16 U	11 U	12 U	11 U
Chloromethane (Methyl chloride)	ug/kg	-	-	-	12 U	10 U	16 U	16 U	11 U	12 U	11 U
cis-1,2-Dichloroethene	ug/kg	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	ug/kg	-	-	-	12 U	10 U	16 U	16 U	11 U	12 U	11 U
Cyclohexane	ug/kg	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	ug/kg	-	-	-	12 U	10 U	16 U	16 U	11 U	12 U	11 U
Dichlorodifluoromethane (CFC-12)	ug/kg	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	ug/kg	-	-	-	12 U	10 U	16 U	16 U	11 U	12 U	11 U
Isopropyl benzene	ug/kg	-	-	-	-	-	-	-	-	-	-
Methyl acetate	ug/kg	-	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	ug/kg	-	-	-	-	-	-	-	-	-	-
Methyl tert butyl ether (MTBE)	ug/kg	-	-	-	-	-	-	-	-	-	-
Methylene chloride	ug/kg	-	-	-	12 JBU	16 BU	16 JBU	16 JBU	11 JBU	12 JBU	17 BU
Styrene	ug/kg	-	-	-	12 U	10 U	16 U	16 U	11 U	12 U	11 U
Tetrachloroethene	ug/kg	11	5 U	5 U	59	10 U	16 U	16 U	11 U	12 U	11 U
Toluene	ug/kg	2 J	5 U	5 U	12 U	10 U	16 U	16 U	11 U	4 J	7 J
trans-1,2-Dichloroethene	ug/kg	-	-	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	ug/kg	-	-	-	12 U	10 U	16 U	16 U	11 U	12 U	11 U
Trichloroethene	ug/kg	4 J	5 U	5 U	12 U	10 U	16 U	16 U	11 U	12 U	11 U
Trichlorofluoromethane (CFC-11)	ug/kg	-	-	-	-	-	-	-	-	-	-
Trifluorotrichloroethane (CFC-113)	ug/kg	-	-	-	-	-	-	-	-	-	-

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**S8(EPA)**	**S9(EPA)**	**S11(EPA)**	**S01(OEPA)**	**S02(OEPA)**	**S04(OEPA)**	**S06(OEPA)**	**S09(OEPA)**	**S10(OEPA)**	**S11(OEPA)**
Sample ID:		**S8**	**S9**	**S11**	**96-DV-03-S01**	**96-DV-03-S02**	**96-DV-03-S04**	**96-DV-03-S06**	**96-DV-03-S09**	**96-DV-03-S10**	**96-DV-03-S11**
Sample Date:		**10/23/1990**	**10/23/1990**	**10/23/1990**	**7/9/1996**	**7/9/1996**	**7/9/1996**	**7/9/1996**	**7/9/1996**	**7/9/1996**	**7/9/1996**
Sample Depth:		**0-1 ft BGS**	**0-1 ft BGS**	**0-1 ft BGS**	**4-4.6 ft BGS**	**0-0.1 ft BGS**	**1.5-2 ft BGS**	**1.5-2.5 ft BGS**	**0.3-0.5 ft BGS**	**0-0.3 ft BGS**	**0.2-0.3 ft BGS**
Parameters	**Units**										
Vinyl chloride	ug/kg	-	-	-	12 U	10 U	16 U	16 U	11 U	12 U	11 U
Xylenes (total)	ug/kg	5 U	5 U	5 U	12 U	10 U	16 U	16 U	11 U	12 U	11 U
Semi-Volatiles											
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	ug/kg	-	-	-	1000 U	860 U	1300 U	1300 U	880 U	1000 U	900 U
2,4,6-Trichlorophenol	ug/kg	-	-	-	410 U	340 U	520 U	530 U	350 U	400 U	360 U
2,4-Dichlorophenol	ug/kg	-	-	-	410 U	340 U	520 U	530 U	350 U	400 U	360 U
2,4-Dimethylphenol	ug/kg	-	-	-	410 U	340 U	520 U	530 U	350 U	400 U	360 U
2,4-Dinitrophenol	ug/kg	-	-	-	1000 U	860 U	1300 U	1300 U	880 U	1000 U	900 U
2,4-Dinitrotoluene	ug/kg	-	-	-	410 U	340 U	520 U	530 U	350 U	400 U	360 U
2,6-Dinitrotoluene	ug/kg	-	-	-	410 U	340 U	520 U	530 U	350 U	400 U	360 U
2-Chloronaphthalene	ug/kg	-	-	-	410 U	340 U	520 U	530 U	350 U	400 U	360 U
2-Chlorophenol	ug/kg	-	-	-	410 U	340 U	520 U	530 U	350 U	400 U	360 U
2-Methylnaphthalene	ug/kg	190 J	330 U	240 J	410 U	340 U	77 J	530 U	49 J	46 J	74 J
2-Methylphenol	ug/kg	-	-	-	410 U	340 U	520 U	530 U	350 U	400 U	360 U
2-Nitroaniline	ug/kg	-	-	-	1000 U	860 U	1300 U	1300 U	880 U	1000 U	900 U
2-Nitrophenol	ug/kg	-	-	-	410 U	340 U	520 U	530 U	350 U	400 U	360 U
3&4-Methylphenol	ug/kg	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/kg	-	-	-	-	-	-	-	-	-	-
3-Nitroaniline	ug/kg	-	-	-	1000 U	860 U	1300 U	1300 U	880 U	1000 U	900 U
4,6-Dinitro-2-methylphenol	ug/kg	-	-	-	1000 U	860 U	1300 U	1300 U	880 U	1000 U	900 U
4-Bromophenyl phenyl ether	ug/kg	-	-	-	410 U	340 U	520 U	530 U	350 U	400 U	360 U
4-Chloro-3-methylphenol	ug/kg	-	-	-	410 U	340 U	520 U	530 U	350 U	400 U	360 U
4-Chloroaniline	ug/kg	-	-	-	410 U	340 U	520 U	530 U	350 U	400 U	360 U
4-Chlorophenyl phenyl ether	ug/kg	-	-	-	410 U	340 U	520 U	530 U	350 U	400 U	360 U
4-Methylphenol	ug/kg	-	-	-	410 U	340 U	520 U	530 U	350 U	400 U	360 U
4-Nitroaniline	ug/kg	-	-	-	1000 U	860 U	1300 U	1300 U	880 U	1000 U	900 U
4-Nitrophenol	ug/kg	-	-	-	1000 U	860 U	1300 U	1300 U	880 U	1000 U	900 U
Acenaphthene	ug/kg	330 U	330 U	330 U	410 U	340 U	33 J	530 U	350 U	400 U	26 J
Acenaphthylene	ug/kg	-	-	-	410 U	340 U	520 U	530 U	350 U	400 U	50 J
Acetophenone	ug/kg	-	-	-	-	-	-	-	-	-	-
Anthracene	ug/kg	330 U	330 U	330 U	410 U	340 U	29 J	530 U	26 J	400 U	97 J
Atrazine	ug/kg	-	-	-	-	-	-	-	-	-	-
Benzaldehyde	ug/kg	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	ug/kg	330 U	330 U	430 J	410 U	340 U	41 J	530 U	180 J	51 J	950
Benzo(a)pyrene	ug/kg	150 J	330 U	220 J	410 U	340 U	520 U	530 U	110 J	400 U	1000
Benzo(b)fluoranthene	ug/kg	230 J	150 J	630 J	410 U	340 U	520 U	530 U	320 J	79 J	1300
Benzo(g,h,i)perylene	ug/kg	170 J	330 U	310 J	410 U	340 U	520 U	530 U	350 U	400 U	310 J
Benzo(k)fluoranthene	ug/kg	300 J	330 U	330 U	410 U	340 U	520 U	530 U	200 J	73 J	920
Biphenyl (1,1-Biphenyl)	ug/kg	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	ug/kg	-	-	-	410 U	340 U	520 U	530 U	350 U	400 U	360 U
bis(2-Chloroethyl)ether	ug/kg	-	-	-	410 U	340 U	520 U	530 U	350 U	400 U	360 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	330 U	330 U	330 U	24 J	33 J	540	530 U	2100	72 J	120 J
Butyl benzylphthalate (BBP)	ug/kg	330 U	330 U	330 U	410 U	25 J	520 U	530 U	18000 E	61 J	360 U
Caprolactam	ug/kg	-	-	-	-	-	-	-	-	-	-
Carbazole	ug/kg	-	-	-	410 U	340 U	520 U	530 U	350 U	400 U	38 J
Chrysene	ug/kg	180 J	330 U	610 J	410 U	340 U	56 J	530 U	320 J	93 J	1000

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**S8(EPA)**	**S9(EPA)**	**S11(EPA)**	**S01(OEPA)**	**S02(OEPA)**	**S04(OEPA)**	**S06(OEPA)**	**S09(OEPA)**	**S10(OEPA)**	**S11(OEPA)**
Sample ID:		**S8**	**S9**	**S11**	**96-DV-03-S01**	**96-DV-03-S02**	**96-DV-03-S04**	**96-DV-03-S06**	**96-DV-03-S09**	**96-DV-03-S10**	**96-DV-03-S11**
Sample Date:		**10/23/1990**	**10/23/1990**	**10/23/1990**	**7/9/1996**	**7/9/1996**	**7/9/1996**	**7/9/1996**	**7/9/1996**	**7/9/1996**	**7/9/1996**
Sample Depth:		**0-1 ft BGS**	**0-1 ft BGS**	**0-1 ft BGS**	**4-4.6 ft BGS**	**0-0.1 ft BGS**	**1.5-2 ft BGS**	**1.5-2.5 ft BGS**	**0.3-0.5 ft BGS**	**0-0.3 ft BGS**	**0.2-0.3 ft BGS**
Parameters	**Units**										
Dibenz(a,h)anthracene	ug/kg	330 U	330 U	330 U	410 U	340 U	520 U	530 U	350 U	400 U	450
Dibenzofuran	ug/kg	330 U	330 U	330 U	410 U	340 U	28 J	530 U	350 U	400 U	29 J
Diethyl phthalate	ug/kg	-	-	-	410 U	340 U	520 U	530 U	350 U	400 U	360 U
Dimethyl phthalate	ug/kg	-	-	-	410 U	340 U	520 U	530 U	350 U	400 U	360 U
Di-n-butylphthalate (DBP)	ug/kg	330 U	330 U	330 U	410 U	18 J	28 J	31 J	1500	35 J	360 U
Di-n-octyl phthalate (DnOP)	ug/kg	-	-	-	410 U	23 J	520 U	530 U	350 U	400 U	360 U
Fluoranthene	ug/kg	360 J	210 J	980 J	410 U	21 J	140 J	530 U	340 J	100 J	1300
Fluorene	ug/kg	330 U	330 U	330 U	410 U	340 U	520 U	530 U	350 U	400 U	38 J
Hexachlorobenzene	ug/kg	-	-	-	410 U	340 U	520 U	530 U	350 U	400 U	360 U
Hexachlorobutadiene	ug/kg	-	-	-	410 U	340 U	520 U	530 U	350 U	400 U	360 U
Hexachlorocyclopentadiene	ug/kg	-	-	-	410 U	340 U	520 U	530 U	350 U	400 U	360 U
Hexachloroethane	ug/kg	-	-	-	410 U	340 U	520 U	530 U	350 U	400 U	360 U
Indeno(1,2,3-cd)pyrene	ug/kg	160 J	330 U	270 J	410 U	340 U	520 U	530 U	120 J	400 U	910
Isophorone	ug/kg	-	-	-	410 U	340 U	520 U	530 U	350 U	400 U	360 U
Naphthalene	ug/kg	330 U	330 U	150 J	410 U	20 J	58 J	530 U	35 J	26 J	59 J
Nitrobenzene	ug/kg	-	-	-	410 U	340 U	520 U	530 U	350 U	400 U	360 U
N-Nitrosodi-n-propylamine	ug/kg	-	-	-	410 U	340 U	520 U	530 U	350 U	400 U	360 U
N-Nitrosodiphenylamine	ug/kg	330 U	330 U	330 U	410 U	340 U	520 U	530 U	350 U	400 U	360 U
Pentachlorophenol	ug/kg	-	-	-	1000 U	860 U	1300 U	1300 U	880 U	1000 U	900 U
Phenanthrene	ug/kg	170 J	210 J	540 J	410 U	340 U	170 J	530 U	180 J	100 J	570
Phenol	ug/kg	-	-	-	410 U	340 U	520 U	530 U	64 J	400 U	360 U
Pyrene	ug/kg	290 J	180 J	710 J	410 U	20 J	160 J	1300 U	320 J	120 J	1600
Metals											
Aluminum	mg/kg	5350	11100	8460	3470	10400	5290	6210	4970	8080	3290
Antimony	mg/kg	2.4 U	2.1 B	18.2 B	0.75 U	0.70 B	1.0 B	1.0 U	2.9 B	8.4 B	2.1 B
Arsenic	mg/kg	11.6	69.3	20.1	20.7	77.2	27.0	49.7	36.0	15.4	6.6
Barium	mg/kg	150	190	265	182	272	222	320	824	318	93.8
Beryllium	mg/kg	1.4 B	5.5	2.5	2.0	5.8	3.1	3.3	2.6	1.9	1.1 B
Cadmium	mg/kg	8.6	1 U	8.4	0.47 B	6.6	0.38 B	0.33 U	3.9	16.3	1.4
Calcium	mg/kg	4810	10000	34900	4060	5650	16400	2280	19800	48800	98000
Chromium	mg/kg	43	23.2	30.4	5.5	23.6	14.0	16.5	50.7	43.2	18.7
Chromium III (trivalent)	mg/kg	-	-	-	-	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-	-	-	-	-
Cobalt	mg/kg	6.2 B	22.1	10.9 B	6.0 B	16.2	9.6 B	8.7 B	11.2	13.8	4.3 B
Copper	mg/kg	2200 EJ	76.6 EJ	796 EJ	26.8	91.8	73.0	41.5	1680	191000	405
Iron	mg/kg	48300	11100	25500	3240	9430	5890	3120	13800	92300	16000
Lead	mg/kg	1590	49.7	811	29.9	110	97.0	18.2	1990	12100	242
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-	-	-	-
Magnesium	mg/kg	2230	3720	15500	1010 B	1480	8070	596 B	18200	8860	36200

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**S8(EPA)**	**S9(EPA)**	**S11(EPA)**	**S01(OEPA)**	**S02(OEPA)**	**S04(OEPA)**	**S06(OEPA)**	**S09(OEPA)**	**S10(OEPA)**	**S11(OEPA)**
Sample ID:		**S8**	**S9**	**S11**	**96-DV-03-S01**	**96-DV-03-S02**	**96-DV-03-S04**	**96-DV-03-S06**	**96-DV-03-S09**	**96-DV-03-S10**	**96-DV-03-S11**
Sample Date:		**10/23/1990**	**10/23/1990**	**10/23/1990**	**7/9/1996**	**7/9/1996**	**7/9/1996**	**7/9/1996**	**7/9/1996**	**7/9/1996**	**7/9/1996**
Sample Depth:		**0-1 ft BGS**	**0-1 ft BGS**	**0-1 ft BGS**	**4-4.6 ft BGS**	**0-0.1 ft BGS**	**1.5-2 ft BGS**	**1.5-2.5 ft BGS**	**0.3-0.5 ft BGS**	**0-0.3 ft BGS**	**0.2-0.3 ft BGS**
Parameters	**Units**										
Manganese	mg/kg	272	162	294	98.2	99.1	72.8	45.2	236	693	344
Mercury	mg/kg	0.008 U	0.3	0.008 U	0.12 U	0.48	0.14 U	0.17 U	0.21	0.13 U	0.11 U
Nickel	mg/kg	402	56.6	65.5	10.4	34.6	20.0	16.6	85.0	139	24.2
Potassium	mg/kg	1030 B	1630 B	915 B	611 B	1390	810 B	1230 B	685 B	763 B	599 B
Selenium	mg/kg	1.1 BWJ	4.6	3.7	1.3	8.8	6.3	8.6	2.8	2.6	0.93 B
Silver	mg/kg	2 U	2 U	2 U	0.25 U	0.21 U	0.28 U	0.33 U	0.90 B	7.6	0.22 U
Sodium	mg/kg	338 B	272 B	239 B	276 B	364 B	448 B	406 B	279 B	809 B	368 B
Thallium	mg/kg	2 U	2 B	0.73 B	1.0 U	1.8 B	1.7 B	1.3 U	1.5 B	4.5	1.3 B
Vanadium	mg/kg	27.4	69.6	35.5	18.3	92.6	47.7	61.9	33.6	28.1	15.6
Zinc	mg/kg	1490	75.1	480	33.7	39.4	231	48.0	291	11500	159
PCBs											
Aroclor-1016 (PCB-1016)	ug/kg	-	-	-	41 U	34 U	52 U	53 U	35 U	40 U	36 U
Aroclor-1221 (PCB-1221)	ug/kg	-	-	-	83 U	69 U	100 U	110 U	71 U	82 U	73 U
Aroclor-1232 (PCB-1232)	ug/kg	-	-	-	41 U	34 U	52 U	53 U	35 U	40 U	36 U
Aroclor-1242 (PCB-1242)	ug/kg	-	-	-	41 U	34 U	52 U	53 U	35 U	40 U	36 U
Aroclor-1248 (PCB-1248)	ug/kg	80 U	80 U	80 U	41 U	34 U	52 U	53 U	35 U	40 U	36 U
Aroclor-1254 (PCB-1254)	ug/kg	-	-	-	41 U	34 U	52 U	53 U	830	170 P	36 U
Aroclor-1260 (PCB-1260)	ug/kg	160 U	160 U	460 JX	41 U	34 U	52 U	53 U	1200	40 U	36 U
Pesticides											
4,4'-DDD	ug/kg	-	-	-	4.1 U	3.4 U	5.2 U	5.3 U	3.5 U	4 U	4.4
4,4'-DDE	ug/kg	-	-	-	4.1 U	3.4 U	2.6 J	5.3 U	3.5 U	4 U	3.6 U
4,4'-DDT	ug/kg	-	-	-	0.6 PJ	3.4 U	5.2 U	5.3 U	3.5 U	4 U	3.6 U
Aldrin	ug/kg	-	-	-	2.1 U	1.8 U	2.6 U	2.7 U	1.8 U	2.1 U	1.8 U
alpha-BHC	ug/kg	-	-	-	2.1 U	1.8 U	2.6 U	2.7 U	1.8 U	2.1 U	1.8 U
alpha-Chlordane	ug/kg	-	-	-	2.1 U	1.8 U	5.4 P	2.7 U	1.8 U	2.1 U	1.8 U
beta-BHC	ug/kg	-	-	-	2.1 U	1.8 U	2.6 U	2.7 U	1.8 U	2.1 U	1.8 U
delta-BHC	ug/kg	-	-	-	2.1 U	1.8 U	2.6 U	2.7 U	1.8 U	2.1 U	1.8 U
Dieldrin	ug/kg	-	-	-	4.1 U	3.4 U	5.2 U	5.3 U	3.5 U	4 U	3.6 U
Endosulfan I	ug/kg	-	-	-	2.1 U	1.8 U	2.6 U	2.7 U	1.8 U	2.1 U	1.8 U
Endosulfan II	ug/kg	-	-	-	4.1 U	3.4 U	5.2 U	5.3 U	3.5 U	4 U	3.6 U
Endosulfan sulfate	ug/kg	-	-	-	4.1 U	3.4 U	5.2 U	5.3 U	3.5 U	4 U	3.6 U
Endrin	ug/kg	-	-	-	1.4 PJ	3.4 U	5.2 U	5.3 U	3.5 U	4 U	3.6 U
Endrin aldehyde	ug/kg	-	-	-	2.2 PJ	3.4 U	5.2 U	5.3 U	3.5 U	4 U	3.6 U
Endrin ketone	ug/kg	-	-	-	4.1 U	3.4 U	5.2 U	5.3 U	3.5 U	4 U	7.5 P
gamma-BHC (lindane)	ug/kg	-	-	-	2.1 U	1.8 U	2.6 U	2.7 U	1.8 U	0.77 PJ	0.42 J
gamma-Chlordane	ug/kg	-	-	-	2.1 U	0.35 PJ	4.3	2.7 U	1.8 U	2.1 U	2.3 P
Heptachlor	ug/kg	-	-	-	2.1 U	1.8 U	2.6 U	2.7 U	1.8 U	2.1 U	1.8 U
Heptachlor epoxide	ug/kg	-	-	-	2.1 U	1.8 U	0.78 PJ	2.7 U	1.8 U	2.1 U	1.8 U
Methoxychlor	ug/kg	-	-	-	21 U	18 U	26 U	27 U	18 U	21 U	18 U
Toxaphene	ug/kg	-	-	-	210 U	180 U	260 U	270 U	180 U	210 U	180 U
Herbicides											
2,4,5-T	ug/kg	-	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/kg	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	-	-	-	-	-	-	-	-	-	-

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**S8(EPA)**	**S9(EPA)**	**S11(EPA)**	**S01(OEPA)**	**S02(OEPA)**	**S04(OEPA)**	**S06(OEPA)**	**S09(OEPA)**	**S10(OEPA)**	**S11(OEPA)**
Sample ID:		**S8**	**S9**	**S11**	**96-DV-03-S01**	**96-DV-03-S02**	**96-DV-03-S04**	**96-DV-03-S06**	**96-DV-03-S09**	**96-DV-03-S10**	**96-DV-03-S11**
Sample Date:		**10/23/1990**	**10/23/1990**	**10/23/1990**	**7/9/1996**	**7/9/1996**	**7/9/1996**	**7/9/1996**	**7/9/1996**	**7/9/1996**	**7/9/1996**
Sample Depth:		**0-1 ft BGS**	**0-1 ft BGS**	**0-1 ft BGS**	**4-4.6 ft BGS**	**0-0.1 ft BGS**	**1.5-2 ft BGS**	**1.5-2.5 ft BGS**	**0.3-0.5 ft BGS**	**0-0.3 ft BGS**	**0.2-0.3 ft BGS**
Parameters	**Units**										
Dioxin/Furans											
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-	-	-	-
Asbestos											
Asbestos	%	-	-	-	-	-	-	-	-	-	-
Chrysotile asbestos	%	-	-	-	-	-	-	-	-	-	-
Geotechnical											
Coarse sand	%	-	-	-	-	-	-	-	-	-	-
Fine sand	%	-	-	-	-	-	-	-	-	-	-
Fines	%	-	-	-	-	-	-	-	-	-	-
Gravel	%	-	-	-	-	-	-	-	-	-	-
Medium sand	%	-	-	-	-	-	-	-	-	-	-
Sand	%	-	-	-	-	-	-	-	-	-	-
Sieve, #4	% passed	-	-	-	-	-	-	-	-	-	-
Sieve, #10	% passed	-	-	-	-	-	-	-	-	-	-
Sieve, #20	% passed	-	-	-	-	-	-	-	-	-	-
Sieve, #40	% passed	-	-	-	-	-	-	-	-	-	-
Sieve, #60	% passed	-	-	-	-	-	-	-	-	-	-
Sieve, #80	% passed	-	-	-	-	-	-	-	-	-	-
Sieve, #100	% passed	-	-	-	-	-	-	-	-	-	-
Sieve, #200	% passed	-	-	-	-	-	-	-	-	-	-
Sieve, 0.375 inch	% passed	-	-	-	-	-	-	-	-	-	-

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**S8(EPA)**	**S9(EPA)**	**S11(EPA)**	**S01(OEPA)**	**S02(OEPA)**	**S04(OEPA)**	**S06(OEPA)**	**S09(OEPA)**	**S10(OEPA)**	**S11(OEPA)**
Sample ID:		**S8**	**S9**	**S11**	**96-DV-03-S01**	**96-DV-03-S02**	**96-DV-03-S04**	**96-DV-03-S06**	**96-DV-03-S09**	**96-DV-03-S10**	**96-DV-03-S11**
Sample Date:		**10/23/1990**	**10/23/1990**	**10/23/1990**	**7/9/1996**	**7/9/1996**	**7/9/1996**	**7/9/1996**	**7/9/1996**	**7/9/1996**	**7/9/1996**
Sample Depth:		**0-1 ft BGS**	**0-1 ft BGS**	**0-1 ft BGS**	**4-4.6 ft BGS**	**0-0.1 ft BGS**	**1.5-2 ft BGS**	**1.5-2.5 ft BGS**	**0.3-0.5 ft BGS**	**0-0.3 ft BGS**	**0.2-0.3 ft BGS**
Parameters	**Units**										
Sieve, 0.75 inch	% passed	-	-	-	-	-	-	-	-	-	-
Sieve, 1 inch	% passed	-	-	-	-	-	-	-	-	-	-
Sieve, 1.5 inch	% passed	-	-	-	-	-	-	-	-	-	-
Sieve, 2 inch	% passed	-	-	-	-	-	-	-	-	-	-
Sieve, 3 inch	% passed	-	-	-	-	-	-	-	-	-	-
General Chemistry											
Cyanide (total)	mg/kg	-	-	-	0.27 B	0.26 B	0.34 B	0.29 B	3.7	0.60 B	0.55
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-	-	-	-

Notes
< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
D - Compounds at secondary dilution factor.
E - Estimated because of the presence of interference (Inorganics).
E - Exceed calibration range of GC/MS instrument (Organics).
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%. The
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-20**	**SS-21**	**SS-22**	**SS-23**	**SS-24**	**SS-29**	**SS-30**
Sample ID:		**S-38443-103117-BW-005**	**SS-38443-111918-JC-021**	**S-38443-110717-BW-029**	**SS-38443-111918-JC-023**	**S-38443-110717-BW-026**	**S-38443-103117-BW-003**	**S-38443-110217-BW-019**
Sample Date:		**10/31/2017**	**11/19/2018**	**11/7/2017**	**11/19/2018**	**11/7/2017**	**10/31/2017**	**11/2/2017**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/kg	2.7 J	1.4 U	0.42 U	1.1 U	0.71 J	0.64 U	0.25 U
1,1,2,2-Tetrachloroethane	ug/kg	R	R	0.48 UJ	1.9 U	0.66 U	R	0.28 U
1,1,2-Trichloroethane	ug/kg	R	1.9 U	0.72 U	1.5 U	0.98 U	1.1 U	0.42 U
1,1-Dichloroethane	ug/kg	R	1.1 U	0.61 U	0.94 U	0.83 U	0.91 U	0.36 U
1,1-Dichloroethene	ug/kg	R	1.5 U	0.99 U	1.2 U	1.4 U	1.5 U	0.58 U
1,2,4-Trichlorobenzene	ug/kg	R	R	0.44 U	0.78 U	0.61 U	R	0.26 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	R	R	1.2 U	4.9 U	1.7 U	R	0.73 U
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	R	1.3 U	0.64 U	1.0 U	0.88 U	0.97 U	0.38 U
1,2-Dichlorobenzene	ug/kg	R	R	0.40 U	1.5 U	0.56 U	R	0.24 U
1,2-Dichloroethane	ug/kg	R	1.3 U	0.53 U	1.0 U	0.73 U	0.80 U	0.31 U
1,2-Dichloroethene (total)	ug/kg	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/kg	R	1.4 U	0.57 U	1.2 U	0.78 U	0.86 U	0.33 U
1,3-Dichlorobenzene	ug/kg	R	R	0.53 U	1.1 U	0.73 U	R	0.31 U
1,4-Dichlorobenzene	ug/kg	R	R	0.64 U	1.2 U	0.88 U	R	0.38 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	R	5.9 U	2.3 U	4.8 U	3.2 U	3.5 U	1.4 U
2-Hexanone	ug/kg	R	6.7 U	1.1 U	5.6 U	1.5 U	1.6 U	0.63 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	R	6.1 U	1.6 U	5.0 U	2.2 U	2.5 U	0.96 U
Acetone	ug/kg	R	35 U	19 U	29 U	16 U	8.5 U	3.3 U
Benzene	ug/kg	R	1.2 U	0.86 J	0.95 U	0.81 U	0.89 U	0.35 U
Bromodichloromethane	ug/kg	R	1.1 U	0.61 U	0.92 U	0.83 U	0.91 U	0.36 U
Bromoform	ug/kg	R	4.0 U	0.73 U	3.3 U	1.0 U	1.1 U	0.43 U
Bromomethane (Methyl bromide)	ug/kg	R	1.6 U	1.1 UJ	1.3 U	1.5 U	1.6 UJ	0.64 U
Carbon disulfide	ug/kg	4.1 J	1.9 U	0.39 U	1.6 U	0.53 U	0.58 U	0.23 U
Carbon tetrachloride	ug/kg	R	5.4 U	0.46 U	4.4 U	0.63 U	0.69 U	0.27 U
Chlorobenzene	ug/kg	R	1.5 U	0.61 U	1.2 U	0.83 U	0.91 U	0.36 U
Chloroethane	ug/kg	R	2.0 U	0.70 U	1.7 U	0.96 U	1.1 U	0.41 U
Chloroform (Trichloromethane)	ug/kg	R	1.3 U	0.42 U	1.1 U	0.58 U	0.64 U	0.25 U
Chloromethane (Methyl chloride)	ug/kg	R	1.7 U	0.70 U	1.4 U	0.96 U	1.1 U	0.41 U
cis-1,2-Dichloroethene	ug/kg	R	1.1 U	0.51 U	0.88 U	0.71 U	0.77 U	0.30 U
cis-1,3-Dichloropropene	ug/kg	R	2.4 U	0.48 U	2.0 U	0.66 U	0.72 U	0.28 U
Cyclohexane	ug/kg	R	2.3 U	0.39 U	1.9 U	0.53 U	0.58 U	0.23 U
Dibromochloromethane	ug/kg	R	4.6 U	0.55 U	3.8 U	0.76 U	0.83 U	0.32 U
Dichlorodifluoromethane (CFC-12)	ug/kg	R	1.6 U	0.64 U	1.3 U	0.88 U	0.97 U	0.38 U
Ethylbenzene	ug/kg	R	1.7 U	0.50 U	1.4 U	0.68 U	0.75 U	0.29 U
Isopropyl benzene	ug/kg	R	1.4 U	0.37 U	1.1 U	0.50 U	0.55 U	0.22 U
Methyl acetate	ug/kg	R	5.6 U	2.1 U	4.6 U	3.0 U	3.2 U	1.3 U
Methyl cyclohexane	ug/kg	R	2.0 U	0.42 U	1.7 U	0.58 U	0.64 U	0.25 U
Methyl tert butyl ether (MTBE)	ug/kg	R	1.4 U	0.50 U	1.1 U	0.68 U	0.75 U	0.29 U
Methylene chloride	ug/kg	4.1 J	20 U	4.5 U	16 U	11 U	0.66 U	0.26 U
Styrene	ug/kg	R	1.9 U	0.50 U	1.6 U	0.90 J	0.75 U	0.29 U
Tetrachloroethene	ug/kg	260 J	1.2 U	0.68 U	0.99 U	2.8 J	1.1 J	0.40 U
Toluene	ug/kg	1.3 J	1.3 U	0.62 U	1.1 U	0.86 U	2.3 J	0.37 U
trans-1,2-Dichloroethene	ug/kg	R	0.77 U	0.70 U	0.63 U	0.96 U	1.1 U	0.41 U
trans-1,3-Dichloropropene	ug/kg	R	1.7 U	0.39 U	1.4 U	0.53 U	0.58 U	0.23 U
Trichloroethene	ug/kg	3.6 J	1.0 U	0.75 U	0.86 U	1.0 U	1.1 U	0.44 U
Trichlorofluoromethane (CFC-11)	ug/kg	R	1.8 U	0.44 U	1.5 U	0.61 U	0.66 U	0.26 U
Trifluorotrichloroethane (CFC-113)	ug/kg	R	2.1 U	0.90 U	1.7 U	1.2 U	1.4 U	0.53 U

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-20**	**SS-21**	**SS-22**	**SS-23**	**SS-24**	**SS-29**	**SS-30**
Sample ID:		**S-38443-103117-BW-005**	**SS-38443-111918-JC-021**	**S-38443-110717-BW-029**	**SS-38443-111918-JC-023**	**S-38443-110717-BW-026**	**S-38443-103117-BW-003**	**S-38443-110217-BW-019**
Sample Date:		**10/31/2017**	**11/19/2018**	**11/7/2017**	**11/19/2018**	**11/7/2017**	**10/31/2017**	**11/2/2017**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**							
Vinyl chloride	ug/kg	R	1.4 U	0.51 U	1.1 U	0.71 U	0.77 U	0.30 U
Xylenes (total)	ug/kg	R	2.6 U	0.73 U	2.2 U	1.0 U	1.1 U	0.43 U
Semi-Volatiles								
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	28 U	12 U	62 U	12 U	45 U	13 U	11 U
2,4,5-Trichlorophenol	ug/kg	73 UJ	85 U	160 U	85 U	120 U	35 U	29 U
2,4,6-Trichlorophenol	ug/kg	26 UJ	79 U	58 U	79 U	42 U	13 U	10 U
2,4-Dichlorophenol	ug/kg	59 UJ	54 U	130 U	54 U	95 U	28 U	23 U
2,4-Dimethylphenol	ug/kg	59 UJ	49 U	130 U	49 U	95 U	28 U	23 U
2,4-Dinitrophenol	ug/kg	62 UJ	R	140 U	180 U	100 U	30 U	24 U
2,4-Dinitrotoluene	ug/kg	50 U	76 U	110 U	77 U	81 U	24 U	20 U
2,6-Dinitrotoluene	ug/kg	62 U	69 U	140 U	69 U	100 U	30 U	24 U
2-Chloronaphthalene	ug/kg	1.3 U	17 U	3.0 U	17 U	2.1 U	0.63 U	0.52 U
2-Chlorophenol	ug/kg	24 UJ	12 U	54 U	12 U	39 U	12 U	9.6 U
2-Methylnaphthalene	ug/kg	800	1700 J	390	1300	470	630	19
2-Methylphenol	ug/kg	32 UJ	38 U	72 U	38 U	52 U	15 U	13 U
2-Nitroaniline	ug/kg	27 U	49 U	60 U	49 U	43 U	13 U	11 U
2-Nitrophenol	ug/kg	24 UJ	16 U	54 U	16 U	40 U	12 U	9.7 U
3&4-Methylphenol	ug/kg	59 UJ	36 U	130 J	36 U	95 U	28 U	23 U
3,3'-Dichlorobenzidine	ug/kg	53 U	R	120 U	53 U	86 U	25 U	21 U
3-Nitroaniline	ug/kg	47 U	R	110 U	61 U	76 U	23 U	19 U
4,6-Dinitro-2-methylphenol	ug/kg	27 UJ	R	60 U	99 U	44 U	13 U	11 U
4-Bromophenyl phenyl ether	ug/kg	38 U	17 U	85 U	17 U	62 U	18 U	15 U
4-Chloro-3-methylphenol	ug/kg	62 UJ	55 U	140 U	56 U	100 U	30 U	24 U
4-Chloroaniline	ug/kg	50 U	R	110 U	37 U	81 U	24 U	20 U
4-Chlorophenyl phenyl ether	ug/kg	38 U	17 U	85 U	17 U	62 U	18 U	15 U
4-Methylphenol	ug/kg	-	-	-	-	-	-	-
4-Nitroaniline	ug/kg	76 U	R	170 U	74 U	120 U	37 U	30 U
4-Nitrophenol	ug/kg	50 UJ	120 U	110 U	120 U	81 U	24 U	20 U
Acenaphthene	ug/kg	2.2 U	44	5.0 U	24	51	1.1 U	11
Acenaphthylene	ug/kg	1.0 U	57	30 J	35	100	0.49 U	7.7 J
Acetophenone	ug/kg	73 J	380	550 J	120	67 J	52 J	11 U
Anthracene	ug/kg	47	110	90	66	140	23	41
Atrazine	ug/kg	27 U	44 U	60 U	44 U	43 U	13 U	11 U
Benzaldehyde	ug/kg	61 J	290	420 J	140	76 J	17 U	16 J
Benzo(a)anthracene	ug/kg	200	480	170	260	850	120	220
Benzo(a)pyrene	ug/kg	140	470	140	230	1000	110	210
Benzo(b)fluoranthene	ug/kg	330	960	220	400	1500	240	350
Benzo(g,h,i)perylene	ug/kg	89	350	130	200	850	78	110
Benzo(k)fluoranthene	ug/kg	73	250	66	110	460	67	140
Biphenyl (1,1-Biphenyl)	ug/kg	59 J	150	180 J	86	60 J	49 J	4.1 U
bis(2-Chloroethoxy)methane	ug/kg	65 U	15 U	140 U	15 U	100 U	31 U	26 U
bis(2-Chloroethyl)ether	ug/kg	5.9 U	15 U	13 U	15 U	9.5 U	2.8 U	2.3 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	250	240 J	940	88	440	97 U	38 U
Butyl benzylphthalate (BBP)	ug/kg	340	1200	1200	27 J	48 U	14 U	12 U
Caprolactam	ug/kg	110 U	92 U	240 U	93 U	180 U	52 U	43 U
Carbazole	ug/kg	79 U	59 J	180 U	36 J	130 U	38 U	31 U
Chrysene	ug/kg	240	610	200	300	920	180	240

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-20**	**SS-21**	**SS-22**	**SS-23**	**SS-24**	**SS-29**	**SS-30**
Sample ID:		**S-38443-103117-BW-005**	**SS-38443-111918-JC-021**	**S-38443-110717-BW-029**	**SS-38443-111918-JC-023**	**S-38443-110717-BW-026**	**S-38443-103117-BW-003**	**S-38443-110217-BW-019**
Sample Date:		**10/31/2017**	**11/19/2018**	**11/7/2017**	**11/19/2018**	**11/7/2017**	**10/31/2017**	**11/2/2017**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**							
Dibenz(a,h)anthracene	ug/kg	1.9 U	94	4.3 U	50	210	0.93 U	0.77 U
Dibenzofuran	ug/kg	260	420	180 J	320	170 J	180	10 J
Diethyl phthalate	ug/kg	47 U	38 U	140 J	38 U	76 U	23 U	19 U
Dimethyl phthalate	ug/kg	50 U	17 U	110 U	17 U	81 U	24 U	20 U
Di-n-butylphthalate (DBP)	ug/kg	150 J	200	710	31 U	140 J	44 J	17 U
Di-n-octyl phthalate (DnOP)	ug/kg	23 U	34 U	52 U	35 U	38 U	11 U	9.2 U
Fluoranthene	ug/kg	310	740	350	420	1300	200	470
Fluorene	ug/kg	1.6 U	49	96	3.4 U	40	0.75 U	13
Hexachlorobenzene	ug/kg	6.2 U	3.5 U	14 U	3.5 U	10 U	3.0 U	2.4 U
Hexachlorobutadiene	ug/kg	16 U	15 U	37 U	15 U	27 U	7.9 U	6.5 U
Hexachlorocyclopentadiene	ug/kg	24 U	R	53 U	77 U	39 U	11 U	9.4 U
Hexachloroethane	ug/kg	26 U	11 U	59 U	11 U	43 U	13 U	10 U
Indeno(1,2,3-cd)pyrene	ug/kg	58	260	95	140	690	47	110
Isophorone	ug/kg	38 U	15 U	85 U	15 U	62 U	18 U	15 U
Naphthalene	ug/kg	480	860	370	850	330	400	15
Nitrobenzene	ug/kg	6.5 U	16 U	14 U	16 U	10 U	3.1 U	2.6 U
N-Nitrosodi-n-propylamine	ug/kg	19 U	14 U	41 U	14 U	30 U	8.9 U	7.3 U
N-Nitrosodiphenylamine	ug/kg	62 U	15 U	140 U	15 U	100 U	30 U	24 U
Pentachlorophenol	ug/kg	27 UJ	71 U	60 U	72 U	43 U	13 U	11 U
Phenanthrene	ug/kg	580	1300	670	660	700	440	220
Phenol	ug/kg	21 UJ	9.9 U	220 J	9.9 U	35 U	10 U	8.5 U
Pyrene	ug/kg	320	710	370	380	1200	200	450
Metals								
Aluminum	mg/kg	4700 J	4500 J	12000	3900 J	7600	2800 J	7800 J
Antimony	mg/kg	21 J	2.2 J	52	30 J	39	0.68 J	0.25 UJ
Arsenic	mg/kg	60	11	15	10	10	4.0	8.0
Barium	mg/kg	440	150 J	750	270 J	190	88	56
Beryllium	mg/kg	5.3	0.29	0.78	0.56	0.51	0.58	0.51
Cadmium	mg/kg	5.3	3.5	34	2.2	8.0	0.34	0.27
Calcium	mg/kg	2000	1800	25000	51000	62000	15000	43000
Chromium	mg/kg	24	13	110	22	35	7.9	13
Chromium III (trivalent)	mg/kg	-	13	-	22	-	-	-
Chromium VI (hexavalent)	mg/kg	-	1.5 U	-	0.60 U	-	-	-
Cobalt	mg/kg	12	3.9	17	7.3	7.7	4.3	6.4
Copper	mg/kg	580	320 J	3200	320 J	750	37	19
Iron	mg/kg	9200	7900	94000	19000	32000	5900	16000
Lead	mg/kg	370	210 J	13000	360 J	1900	46	17
Lead - coarse fraction	mg/kg	-	-	6400	240 J	-	-	-
Lead - fine fraction	mg/kg	-	-	4200	360	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	5900	260	-	-	-
Magnesium	mg/kg	1500	580	8400	23000	28000	7400	19000

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-20**	**SS-21**	**SS-22**	**SS-23**	**SS-24**	**SS-29**	**SS-30**
Sample ID:		**S-38443-103117-BW-005**	**SS-38443-111918-JC-021**	**S-38443-110717-BW-029**	**SS-38443-111918-JC-023**	**S-38443-110717-BW-026**	**S-38443-103117-BW-003**	**S-38443-110217-BW-019**
Sample Date:		**10/31/2017**	**11/19/2018**	**11/7/2017**	**11/19/2018**	**11/7/2017**	**10/31/2017**	**11/2/2017**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**							
Manganese	mg/kg	47 J	76	600	270	530	100 J	480
Mercury	mg/kg	0.17	0.064 J	0.20	0.12 J	0.45	0.049 J	0.045 J
Nickel	mg/kg	38	36 J	120	170 J	94	11	15
Potassium	mg/kg	430	470	1000	690	730	450	890
Selenium	mg/kg	5.1	1.2	1.5	1.6	0.87 U	1.3 U	0.75 J
Silver	mg/kg	0.46	0.19 J	4.1	0.60	1.3	0.072 J	0.041 J
Sodium	mg/kg	100 U	59 U	980	120 J	300	97 U	85 U
Thallium	mg/kg	1.8	0.13 J	0.41 J	0.30	0.20 J	0.13 J	0.19 J
Vanadium	mg/kg	44	9.1	29	21	21	12	20
Zinc	mg/kg	390	810 J	2800	430 J	1200	43	58
PCBs								
Aroclor-1016 (PCB-1016)	ug/kg	35 U	140 U	31 U	27 U	580 U	33 U	28 UJ
Aroclor-1221 (PCB-1221)	ug/kg	34 U	150 U	30 U	30 U	550 U	32 U	27 U
Aroclor-1232 (PCB-1232)	ug/kg	24 U	140 U	21 U	28 U	390 U	22 U	19 U
Aroclor-1242 (PCB-1242)	ug/kg	29 U	770	340	23 U	480 U	28 U	23 U
Aroclor-1248 (PCB-1248)	ug/kg	25 U	150 U	22 U	30 U	410 U	24 U	20 U
Aroclor-1254 (PCB-1254)	ug/kg	85	1100	660	110	29000	84	28 J
Aroclor-1260 (PCB-1260)	ug/kg	26 U	140 U	23 U	27 U	430 U	25 U	21 U
Pesticides								
4,4'-DDD	ug/kg	24 U	36 U	86 U	28 J	200 U	24 U	3.8 U
4,4'-DDE	ug/kg	8.7 U	37 U	31 U	19 U	72 U	8.7 U	1.4 U
4,4'-DDT	ug/kg	10 U	28 U	37 U	14 U	84 U	10 U	1.6 U
Aldrin	ug/kg	17 U	19 U	63 U	9.5 U	140 U	17 U	2.8 U
alpha-BHC	ug/kg	12 U	22 U	42 U	11 U	96 U	12 U	1.9 U
alpha-Chlordane	ug/kg	28 U	37 U	99 U	18 U	230 U	28 U	4.4 U
beta-BHC	ug/kg	28 U	42 U	100 U	21 U	230 U	28 U	4.5 U
delta-BHC	ug/kg	9.4 U	41 U	34 U	21 U	78 U	9.4 U	1.5 U
Dieldrin	ug/kg	6.5 U	27 U	23 U	14 U	54 U	6.5 U	1.0 U
Endosulfan I	ug/kg	9.4 U	29 U	34 U	15 U	78 U	9.4 U	1.5 U
Endosulfan II	ug/kg	13 U	36 U	47 U	18 U	110 U	13 U	2.1 U
Endosulfan sulfate	ug/kg	8.7 U	31 U	31 U	16 U	72 U	8.7 U	1.4 U
Endrin	ug/kg	10 U	46 U	39 NJ	23 U	140 NJ	10 U	1.6 U
Endrin aldehyde	ug/kg	13 U	32 U	110 J	16 U	110 UJ	13 U	2.1 U
Endrin ketone	ug/kg	8.0 U	22 U	29 U	11 U	66 U	8.0 U	1.3 U
gamma-BHC (lindane)	ug/kg	21 U	44 U	76 U	22 U	170 U	21 U	3.4 U
gamma-Chlordane	ug/kg	11 U	30 U	39 U	15 U	90 U	11 U	1.7 U
Heptachlor	ug/kg	5.7 U	39 U	20 U	19 U	47 U	5.7 U	0.90 U
Heptachlor epoxide	ug/kg	17 U	35 U	63 U	18 U	140 U	17 U	2.8 U
Methoxychlor	ug/kg	8.7 U	160 U	31 U	81 U	72 U	8.7 U	2.8 J
Toxaphene	ug/kg	270 U	610 U	970 U	310 U	2200 U	270 U	43 U
Herbicides								
2,4,5-T	ug/kg	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/kg	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	-	-	-	-	-	-	-

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-20**	**SS-21**	**SS-22**	**SS-23**	**SS-24**	**SS-29**	**SS-30**
Sample ID:		**S-38443-103117-BW-005**	**SS-38443-111918-JC-021**	**S-38443-110717-BW-029**	**SS-38443-111918-JC-023**	**S-38443-110717-BW-026**	**S-38443-103117-BW-003**	**S-38443-110217-BW-019**
Sample Date:		**10/31/2017**	**11/19/2018**	**11/7/2017**	**11/19/2018**	**11/7/2017**	**10/31/2017**	**11/2/2017**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**							
Dioxin/Furans								
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Asbestos								
Asbestos	%	-	-	-	-	-	-	-
Chrysotile asbestos	%	-	-	-	-	-	-	-
Geotechnical								
Coarse sand	%	-	-	-	-	-	-	-
Fine sand	%	-	-	-	-	-	-	-
Fines	%	-	-	-	-	-	-	-
Gravel	%	-	-	-	-	-	-	-
Medium sand	%	-	-	-	-	-	-	-
Sand	%	-	-	-	-	-	-	-
Sieve, #4	% passed	-	-	-	-	-	-	-
Sieve, #10	% passed	-	-	-	-	-	-	-
Sieve, #20	% passed	-	-	-	-	-	-	-
Sieve, #40	% passed	-	-	-	-	-	-	-
Sieve, #60	% passed	-	-	-	-	-	-	-
Sieve, #80	% passed	-	-	-	-	-	-	-
Sieve, #100	% passed	-	-	-	-	-	-	-
Sieve, #200	% passed	-	-	-	-	-	-	-
Sieve, 0.375 inch	% passed	-	-	-	-	-	-	-

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-20**	**SS-21**	**SS-22**	**SS-23**	**SS-24**	**SS-29**	**SS-30**
Sample ID:		**S-38443-103117-BW-005**	**SS-38443-111918-JC-021**	**S-38443-110717-BW-029**	**SS-38443-111918-JC-023**	**S-38443-110717-BW-026**	**S-38443-103117-BW-003**	**S-38443-110217-BW-019**
Sample Date:		**10/31/2017**	**11/19/2018**	**11/7/2017**	**11/19/2018**	**11/7/2017**	**10/31/2017**	**11/2/2017**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**							
Sieve, 0.75 inch	% passed	-	-	-	-	-	-	-
Sieve, 1 inch	% passed	-	-	-	-	-	-	-
Sieve, 1.5 inch	% passed	-	-	-	-	-	-	-
Sieve, 2 inch	% passed	-	-	-	-	-	-	-
Sieve, 3 inch	% passed	-	-	-	-	-	-	-
General Chemistry								
Cyanide (total)	mg/kg	0.68 U	0.35 J	0.59 UJ	0.24 U	0.51 UJ	0.60 U	0.53 U
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-

Notes
< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
D - Compounds at secondary dilution factor.
E - Estimated because of the presence of interference (Inorganics).
E - Exceed calibration range of GC/MS instrument (Organics).
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%. The
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-31**	**SS-35**	**SS-36**	**SS-106**	**SS-107**	**SS-108 (SS-22/TT-32)**	**SS-110 (SS-31/TT39)**
Sample ID:		**S-38443-110217-BW-017**	**S-38443-103017-BW-001**	**S-38443-103117-BW-007**	**SS-38443-111918-JC-106**	**SS-38443-111918-JC-107**	**SS-38443-111618-JC-108**	**SS-38443-111918-JC-110**
Sample Date:		**11/2/2017**	**10/30/2017**	**10/31/2017**	**11/19/2018**	**11/19/2018**	**11/16/2018**	**11/19/2018**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/kg	0.34 U	0.27 U	0.31 U	-	-	-	-
1,1,2,2-Tetrachloroethane	ug/kg	0.39 U	0.31 UJ	0.35 UJ	-	-	-	-
1,1,2-Trichloroethane	ug/kg	0.58 U	0.47 U	0.52 U	-	-	-	-
1,1-Dichloroethane	ug/kg	0.49 U	0.39 U	0.44 U	-	-	-	-
1,1-Dichloroethene	ug/kg	0.80 U	0.64 U	0.72 U	-	-	-	-
1,2,4-Trichlorobenzene	ug/kg	0.36 U	0.29 U	0.32 U	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	1.0 U	0.81 U	0.91 U	-	-	-	-
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	0.52 U	0.42 U	0.47 U	-	-	-	-
1,2-Dichlorobenzene	ug/kg	0.33 U	0.26 U	0.29 U	-	-	-	-
1,2-Dichloroethane	ug/kg	0.43 U	0.35 U	0.39 U	-	-	-	-
1,2-Dichloroethene (total)	ug/kg	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/kg	0.46 U	0.37 U	0.41 U	-	-	-	-
1,3-Dichlorobenzene	ug/kg	0.43 U	0.35 U	0.39 U	-	-	-	-
1,4-Dichlorobenzene	ug/kg	0.52 U	0.42 U	0.47 U	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	1.9 U	1.5 U	1.7 U	-	-	-	-
2-Hexanone	ug/kg	0.86 U	0.69 U	0.77 U	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	1.3 U	1.1 U	1.2 U	-	-	-	-
Acetone	ug/kg	4.5 U	3.7 U	4.1 U	-	-	-	-
Benzene	ug/kg	0.48 U	0.38 U	0.43 U	-	-	-	-
Bromodichloromethane	ug/kg	0.49 U	0.39 U	0.44 U	-	-	-	-
Bromoform	ug/kg	0.59 U	0.48 U	0.53 U	-	-	-	-
Bromomethane (Methyl bromide)	ug/kg	0.88 UJ	0.70 UJ	0.79 UJ	-	-	-	-
Carbon disulfide	ug/kg	0.31 U	0.25 U	0.28 U	-	-	-	-
Carbon tetrachloride	ug/kg	0.37 U	0.30 U	0.33 U	-	-	-	-
Chlorobenzene	ug/kg	0.49 U	0.39 U	0.44 U	-	-	-	-
Chloroethane	ug/kg	0.56 U	0.45 U	0.51 U	-	-	-	-
Chloroform (Trichloromethane)	ug/kg	0.34 U	0.27 U	0.31 U	-	-	-	-
Chloromethane (Methyl chloride)	ug/kg	0.56 U	0.45 U	0.51 U	-	-	-	-
cis-1,2-Dichloroethene	ug/kg	0.42 U	0.33 U	0.37 U	-	-	-	-
cis-1,3-Dichloropropene	ug/kg	0.39 U	0.31 U	0.35 U	-	-	-	-
Cyclohexane	ug/kg	0.31 U	0.25 U	0.28 U	-	-	-	-
Dibromochloromethane	ug/kg	0.45 U	0.36 U	0.40 U	-	-	-	-
Dichlorodifluoromethane (CFC-12)	ug/kg	0.52 U	0.42 U	0.47 U	-	-	-	-
Ethylbenzene	ug/kg	0.40 U	0.32 U	0.36 U	-	-	-	-
Isopropyl benzene	ug/kg	0.30 U	0.24 U	0.27 U	-	-	-	-
Methyl acetate	ug/kg	1.7 U	1.4 U	1.6 U	-	-	-	-
Methyl cyclohexane	ug/kg	0.34 U	0.27 U	0.31 U	-	-	-	-
Methyl tert butyl ether (MTBE)	ug/kg	0.40 U	0.32 U	0.36 U	-	-	-	-
Methylene chloride	ug/kg	0.36 U	0.29 U	0.32 U	-	-	-	-
Styrene	ug/kg	0.40 U	0.32 U	0.36 U	-	-	-	-
Tetrachloroethene	ug/kg	0.55 U	0.44 U	0.49 U	-	-	-	-
Toluene	ug/kg	0.50 U	0.41 U	0.45 U	-	-	-	-
trans-1,2-Dichloroethene	ug/kg	0.56 U	0.45 U	0.51 U	-	-	-	-
trans-1,3-Dichloropropene	ug/kg	0.31 U	0.25 U	0.28 U	-	-	-	-
Trichloroethene	ug/kg	0.61 U	0.49 U	0.55 U	-	-	-	-
Trichlorofluoromethane (CFC-11)	ug/kg	0.36 U	0.29 U	0.32 U	-	-	-	-
Trifluorotrichloroethane (CFC-113)	ug/kg	0.73 U	0.59 U	0.65 U	-	-	-	-

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-31**	**SS-35**	**SS-36**	**SS-106**	**SS-107**	**SS-108 (SS-22/TT-32)**	**SS-110 (SS-31/TT39)**
Sample ID:		**S-38443-110217-BW-017**	**S-38443-103017-BW-001**	**S-38443-103117-BW-007**	**SS-38443-111918-JC-106**	**SS-38443-111918-JC-107**	**SS-38443-111618-JC-108**	**SS-38443-111918-JC-110**
Sample Date:		**11/2/2017**	**10/30/2017**	**10/31/2017**	**11/19/2018**	**11/19/2018**	**11/16/2018**	**11/19/2018**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**							
Vinyl chloride	ug/kg	0.42 U	0.33 U	0.37 U	-	-	-	-
Xylenes (total)	ug/kg	0.59 U	0.48 U	0.53 U	-	-	-	-
Semi-Volatiles								
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	11 U	11 U	10 U	-	-	-	-
2,4,5-Trichlorophenol	ug/kg	28 U	28 U	27 U	-	-	-	-
2,4,6-Trichlorophenol	ug/kg	10 U	9.9 U	9.7 U	-	-	-	-
2,4-Dichlorophenol	ug/kg	22 U	22 U	22 U	-	-	-	-
2,4-Dimethylphenol	ug/kg	22 U	22 U	22 U	-	-	-	-
2,4-Dinitrophenol	ug/kg	24 U	23 U	23 U	-	-	-	-
2,4-Dinitrotoluene	ug/kg	19 U	19 U	19 U	-	-	-	-
2,6-Dinitrotoluene	ug/kg	24 U	23 U	23 U	-	-	-	-
2-Chloronaphthalene	ug/kg	0.50 U	0.50 U	0.49 U	-	-	-	-
2-Chlorophenol	ug/kg	9.2 U	9.1 U	8.9 U	-	-	-	-
2-Methylnaphthalene	ug/kg	4.1 J	11	16	-	-	-	-
2-Methylphenol	ug/kg	12 U	12 U	12 U	-	-	-	-
2-Nitroaniline	ug/kg	10 U	10 U	9.9 U	-	-	-	-
2-Nitrophenol	ug/kg	9.3 U	9.2 U	9.0 U	-	-	-	-
3&4-Methylphenol	ug/kg	22 U	22 U	22 U	-	-	-	-
3,3'-Dichlorobenzidine	ug/kg	20 U	20 U	20 U	-	-	-	-
3-Nitroaniline	ug/kg	18 U	18 U	17 U	-	-	-	-
4,6-Dinitro-2-methylphenol	ug/kg	10 U	10 U	10 U	-	-	-	-
4-Bromophenyl phenyl ether	ug/kg	15 U	14 U	14 U	-	-	-	-
4-Chloro-3-methylphenol	ug/kg	24 U	23 U	23 U	-	-	-	-
4-Chloroaniline	ug/kg	19 U	19 U	19 U	-	-	-	-
4-Chlorophenyl phenyl ether	ug/kg	15 U	14 U	14 U	-	-	-	-
4-Methylphenol	ug/kg	-	-	-	-	-	-	-
4-Nitroaniline	ug/kg	29 U	29 U	28 U	-	-	-	-
4-Nitrophenol	ug/kg	19 U	19 U	19 U	-	-	-	-
Acenaphthene	ug/kg	0.85 U	16	0.83 U	-	-	-	-
Acenaphthylene	ug/kg	0.39 U	200	45	-	-	-	-
Acetophenone	ug/kg	10 U	10 U	10 U	-	-	-	-
Anthracene	ug/kg	4.6 J	71	19	-	-	-	-
Atrazine	ug/kg	10 U	10 U	9.9 U	-	-	-	-
Benzaldehyde	ug/kg	13 U	13 U	13 U	-	-	-	-
Benzo(a)anthracene	ug/kg	23	430	160	-	-	-	-
Benzo(a)pyrene	ug/kg	23	530	180	-	-	-	-
Benzo(b)fluoranthene	ug/kg	33	560	340	-	-	-	-
Benzo(g,h,i)perylene	ug/kg	21	430	78	-	-	-	-
Benzo(k)fluoranthene	ug/kg	12	340	120	-	-	-	-
Biphenyl (1,1-Biphenyl)	ug/kg	3.9 U	3.9 U	3.8 U	-	-	-	-
bis(2-Chloroethoxy)methane	ug/kg	25 U	25 U	24 U	-	-	-	-
bis(2-Chloroethyl)ether	ug/kg	2.2 U	2.2 U	2.2 U	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	55 U	75 J	53 U	-	-	-	-
Butyl benzylphthalate (BBP)	ug/kg	11 U	11 U	11 U	-	-	-	-
Caprolactam	ug/kg	41 U	41 U	40 U	-	-	-	-
Carbazole	ug/kg	30 U	30 J	29 U	-	-	-	-
Chrysene	ug/kg	23	420	180	-	-	-	-

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-31**	**SS-35**	**SS-36**	**SS-106**	**SS-107**	**SS-108 (SS-22/TT-32)**	**SS-110 (SS-31/TT39)**
Sample ID:		**S-38443-110217-BW-017**	**S-38443-103017-BW-001**	**S-38443-103117-BW-007**	**SS-38443-111918-JC-106**	**SS-38443-111918-JC-107**	**SS-38443-111618-JC-108**	**SS-38443-111918-JC-110**
Sample Date:		**11/2/2017**	**10/30/2017**	**10/31/2017**	**11/19/2018**	**11/19/2018**	**11/16/2018**	**11/19/2018**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**							
Dibenz(a,h)anthracene	ug/kg	0.74 U	110	0.72 U	-	-	-	-
Dibenzofuran	ug/kg	0.74 U	11 J	0.72 U	-	-	-	-
Diethyl phthalate	ug/kg	18 U	18 U	17 U	-	-	-	-
Dimethyl phthalate	ug/kg	19 U	19 U	19 U	-	-	-	-
Di-n-butylphthalate (DBP)	ug/kg	17 U	17 U	31 J	-	-	-	-
Di-n-octyl phthalate (DnOP)	ug/kg	8.8 U	8.8 U	8.6 U	-	-	-	-
Fluoranthene	ug/kg	34	650	210	-	-	-	-
Fluorene	ug/kg	0.59 U	21	0.58 U	-	-	-	-
Hexachlorobenzene	ug/kg	2.4 U	2.3 UJ	2.3 U	-	-	-	-
Hexachlorobutadiene	ug/kg	6.3 U	6.2 U	6.1 U	-	-	-	-
Hexachlorocyclopentadiene	ug/kg	9.1 U	9.0 U	8.8 U	-	-	-	-
Hexachloroethane	ug/kg	10 U	10 U	9.8 U	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/kg	18	390	79	-	-	-	-
Isophorone	ug/kg	15 U	14 U	14 U	-	-	-	-
Naphthalene	ug/kg	0.92 U	15	11	-	-	-	-
Nitrobenzene	ug/kg	2.5 U	2.5 U	2.4 U	-	-	-	-
N-Nitrosodi-n-propylamine	ug/kg	7.1 U	7.0 U	6.9 U	-	-	-	-
N-Nitrosodiphenylamine	ug/kg	24 U	23 U	23 U	-	-	-	-
Pentachlorophenol	ug/kg	10 U	10 UJ	9.9 U	-	-	-	-
Phenanthrene	ug/kg	18	220	62	-	-	-	-
Phenol	ug/kg	8.2 U	8.1 U	8.0 U	-	-	-	-
Pyrene	ug/kg	32	610	220	-	-	-	-
Metals								
Aluminum	mg/kg	4700 J	7700 J	3400 J	-	-	-	-
Antimony	mg/kg	0.17 UJ	0.41 J	0.24 J	-	-	-	-
Arsenic	mg/kg	4.4	8.3	5.4	-	-	-	-
Barium	mg/kg	87	170	45	-	-	-	-
Beryllium	mg/kg	0.50	0.45	0.25	-	-	-	-
Cadmium	mg/kg	0.17 U	0.44	0.25	-	-	-	-
Calcium	mg/kg	110000	60000	100000	-	-	-	-
Chromium	mg/kg	8.5	14	6.3	-	-	-	-
Chromium III (trivalent)	mg/kg	-	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-	-
Cobalt	mg/kg	3.6	7.2	2.9	-	-	-	-
Copper	mg/kg	17	44	75	-	-	-	-
Iron	mg/kg	8900	15000	8200	-	-	-	-
Lead	mg/kg	53	120	42	-	-	-	-
Lead - coarse fraction	mg/kg	59	-	-	-	-	-	-
Lead - fine fraction	mg/kg	120	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	70	-	-	-	-	-	-
Magnesium	mg/kg	39000	21000	42000	-	-	-	-

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-31**	**SS-35**	**SS-36**	**SS-106**	**SS-107**	**SS-108 (SS-22/TT-32)**	**SS-110 (SS-31/TT39)**
Sample ID:		**S-38443-110217-BW-017**	**S-38443-103017-BW-001**	**S-38443-103117-BW-007**	**SS-38443-111918-JC-106**	**SS-38443-111918-JC-107**	**SS-38443-111618-JC-108**	**SS-38443-111918-JC-110**
Sample Date:		**11/2/2017**	**10/30/2017**	**10/31/2017**	**11/19/2018**	**11/19/2018**	**11/16/2018**	**11/19/2018**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**							
Manganese	mg/kg	360	620 J	260 J	-	-	-	-
Mercury	mg/kg	0.30	0.052 J	0.053 J	-	-	-	-
Nickel	mg/kg	9.7	14	7.3	-	-	-	-
Potassium	mg/kg	600	800	590	-	-	-	-
Selenium	mg/kg	0.46 J	1.5	0.82 U	-	-	-	-
Silver	mg/kg	0.067 J	0.078 J	0.060 J	-	-	-	-
Sodium	mg/kg	130 U	86 U	120 U	-	-	-	-
Thallium	mg/kg	0.12 J	0.18 J	0.10 J	-	-	-	-
Vanadium	mg/kg	13	21	11	-	-	-	-
Zinc	mg/kg	46	110	86	-	-	-	-
PCBs								
Aroclor-1016 (PCB-1016)	ug/kg	27 UJ	28 U	27 UJ	-	-	-	-
Aroclor-1221 (PCB-1221)	ug/kg	26 U	27 U	26 UJ	-	-	-	-
Aroclor-1232 (PCB-1232)	ug/kg	18 U	19 U	18 UJ	-	-	-	-
Aroclor-1242 (PCB-1242)	ug/kg	23 U	23 U	22 UJ	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/kg	19 U	20 U	19 UJ	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/kg	16 U	52 J	75	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/kg	21 U	21 U	20 U	-	-	-	-
Pesticides								
4,4'-DDD	ug/kg	19 U	3.7 U	3.6 U	-	-	-	-
4,4'-DDE	ug/kg	6.8 U	1.3 U	1.3 U	-	-	-	-
4,4'-DDT	ug/kg	8.0 U	3.4 J	3.8 J	-	-	-	-
Aldrin	ug/kg	14 U	2.7 U	2.6 U	-	-	-	-
alpha-BHC	ug/kg	9.1 U	1.8 U	1.7 U	-	-	-	-
alpha-Chlordane	ug/kg	22 U	4.3 U	4.1 U	-	-	-	-
beta-BHC	ug/kg	22 U	4.4 U	4.2 U	-	-	-	-
delta-BHC	ug/kg	7.4 U	1.5 U	1.4 U	-	-	-	-
Dieldrin	ug/kg	5.1 U	1.0 U	0.98 U	-	-	-	-
Endosulfan I	ug/kg	7.4 U	1.5 U	1.4 U	-	-	-	-
Endosulfan II	ug/kg	10 U	2.0 U	2.0 U	-	-	-	-
Endosulfan sulfate	ug/kg	6.8 U	1.7 J	1.3 U	-	-	-	-
Endrin	ug/kg	8.0 U	1.6 U	1.5 U	-	-	-	-
Endrin aldehyde	ug/kg	10 U	2.0 U	2.0 U	-	-	-	-
Endrin ketone	ug/kg	6.2 U	1.2 U	1.2 U	-	-	-	-
gamma-BHC (lindane)	ug/kg	16 U	3.3 U	3.2 U	-	-	-	-
gamma-Chlordane	ug/kg	8.5 U	1.7 U	1.6 U	-	-	-	-
Heptachlor	ug/kg	4.4 U	0.88 U	0.85 U	-	-	-	-
Heptachlor epoxide	ug/kg	14 U	2.7 U	2.6 U	-	-	-	-
Methoxychlor	ug/kg	6.8 U	1.3 U	1.3 U	-	-	-	-
Toxaphene	ug/kg	210 U	42 U	40 U	-	-	-	-
Herbicides								
2,4,5-T	ug/kg	-	-	-	19 U	16 U	17 U	15 U
2,4,5-TP (Silvex)	ug/kg	-	-	-	20 U	17 U	18 U	16 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	-	-	-	71 U	59 U	62 U	55 U

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-31**	**SS-35**	**SS-36**	**SS-106**	**SS-107**	**SS-108 (SS-22/TT-32)**	**SS-110 (SS-31/TT39)**
Sample ID:		**S-38443-110217-BW-017**	**S-38443-103017-BW-001**	**S-38443-103117-BW-007**	**SS-38443-111918-JC-106**	**SS-38443-111918-JC-107**	**SS-38443-111618-JC-108**	**SS-38443-111918-JC-110**
Sample Date:		**11/2/2017**	**10/30/2017**	**10/31/2017**	**11/19/2018**	**11/19/2018**	**11/16/2018**	**11/19/2018**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**							
Dioxin/Furans								
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	14	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	180	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	8.4	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	19	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	0.13 U	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	1.3 J	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	0.55 J	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	1.7 J	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	1.4 J	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	0.20 U	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	1.3 J	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	0.28 J	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	0.79 J	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	1.1 J	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	0.90 J	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	0.89 J	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	0.17 J	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	20 J	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	40 J	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	33 J	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	12 J	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	54 J	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	24 J	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	59 J	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	2.0 J	-	-	-	-	-
Asbestos								
Asbestos	%	-	-	-	-	-	-	-
Chrysotile asbestos	%	-	-	-	-	-	-	-
Geotechnical								
Coarse sand	%	-	-	-	-	-	-	-
Fine sand	%	-	-	-	-	-	-	-
Fines	%	-	-	-	-	-	-	-
Gravel	%	-	-	-	-	-	-	-
Medium sand	%	-	-	-	-	-	-	-
Sand	%	-	-	-	-	-	-	-
Sieve, #4	% passed	-	-	-	-	-	-	-
Sieve, #10	% passed	-	-	-	-	-	-	-
Sieve, #20	% passed	-	-	-	-	-	-	-
Sieve, #40	% passed	-	-	-	-	-	-	-
Sieve, #60	% passed	-	-	-	-	-	-	-
Sieve, #80	% passed	-	-	-	-	-	-	-
Sieve, #100	% passed	-	-	-	-	-	-	-
Sieve, #200	% passed	-	-	-	-	-	-	-
Sieve, 0.375 inch	% passed	-	-	-	-	-	-	-

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-31**	**SS-35**	**SS-36**	**SS-106**	**SS-107**	**SS-108 (SS-22/TT-32)**	**SS-110 (SS-31/TT39)**
Sample ID:		**S-38443-110217-BW-017**	**S-38443-103017-BW-001**	**S-38443-103117-BW-007**	**SS-38443-111918-JC-106**	**SS-38443-111918-JC-107**	**SS-38443-111618-JC-108**	**SS-38443-111918-JC-110**
Sample Date:		**11/2/2017**	**10/30/2017**	**10/31/2017**	**11/19/2018**	**11/19/2018**	**11/16/2018**	**11/19/2018**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**							
Sieve, 0.75 inch	% passed	-	-	-	-	-	-	-
Sieve, 1 inch	% passed	-	-	-	-	-	-	-
Sieve, 1.5 inch	% passed	-	-	-	-	-	-	-
Sieve, 2 inch	% passed	-	-	-	-	-	-	-
Sieve, 3 inch	% passed	-	-	-	-	-	-	-
General Chemistry								
Cyanide (total)	mg/kg	0.52 U	0.47 U	0.48 U	-	-	-	-
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-

Notes
< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
D - Compounds at secondary dilution factor.
E - Estimated because of the presence of interference (Inorganics).
E - Exceed calibration range of GC/MS instrument (Organics).
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%. The
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-110 (SS-31/TT39)**	**SS-111 (SS-30/TT-38)**	**SS-113 (SS-35/TP-15)**	**SS-181-AS**	**SS-182-AS**	**SS-183-AS**
Sample ID:		**SS-38443-111918-JC-126**	**SS-38443-111618-JC-111**	**SS-38443-111618-JC-113**	**SS-38443-111918-JC-181**	**SS-38443-111918-JC-182**	**SS-38443-111618-JC-183**
Sample Date:		**11/19/2018**	**11/16/2018**	**11/16/2018**	**11/19/2018**	**11/19/2018**	**11/16/2018**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**
		Duplicate					
Parameters	**Units**						
Volatiles							
1,1,1-Trichloroethane	ug/kg	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	ug/kg	-	-	-	-	-	-
1,1,2-Trichloroethane	ug/kg	-	-	-	-	-	-
1,1-Dichloroethane	ug/kg	-	-	-	-	-	-
1,1-Dichloroethene	ug/kg	-	-	-	-	-	-
1,2,4-Trichlorobenzene	ug/kg	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	-	-	-	-	-	-
1,2-Dichlorobenzene	ug/kg	-	-	-	-	-	-
1,2-Dichloroethane	ug/kg	-	-	-	-	-	-
1,2-Dichloroethene (total)	ug/kg	-	-	-	-	-	-
1,2-Dichloropropane	ug/kg	-	-	-	-	-	-
1,3-Dichlorobenzene	ug/kg	-	-	-	-	-	-
1,4-Dichlorobenzene	ug/kg	-	-	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	-	-	-	-	-	-
2-Hexanone	ug/kg	-	-	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	-	-	-	-	-	-
Acetone	ug/kg	-	-	-	-	-	-
Benzene	ug/kg	-	-	-	-	-	-
Bromodichloromethane	ug/kg	-	-	-	-	-	-
Bromoform	ug/kg	-	-	-	-	-	-
Bromomethane (Methyl bromide)	ug/kg	-	-	-	-	-	-
Carbon disulfide	ug/kg	-	-	-	-	-	-
Carbon tetrachloride	ug/kg	-	-	-	-	-	-
Chlorobenzene	ug/kg	-	-	-	-	-	-
Chloroethane	ug/kg	-	-	-	-	-	-
Chloroform (Trichloromethane)	ug/kg	-	-	-	-	-	-
Chloromethane (Methyl chloride)	ug/kg	-	-	-	-	-	-
cis-1,2-Dichloroethene	ug/kg	-	-	-	-	-	-
cis-1,3-Dichloropropene	ug/kg	-	-	-	-	-	-
Cyclohexane	ug/kg	-	-	-	-	-	-
Dibromochloromethane	ug/kg	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	ug/kg	-	-	-	-	-	-
Ethylbenzene	ug/kg	-	-	-	-	-	-
Isopropyl benzene	ug/kg	-	-	-	-	-	-
Methyl acetate	ug/kg	-	-	-	-	-	-
Methyl cyclohexane	ug/kg	-	-	-	-	-	-
Methyl tert butyl ether (MTBE)	ug/kg	-	-	-	-	-	-
Methylene chloride	ug/kg	-	-	-	-	-	-
Styrene	ug/kg	-	-	-	-	-	-
Tetrachloroethene	ug/kg	-	-	-	-	-	-
Toluene	ug/kg	-	-	-	-	-	-
trans-1,2-Dichloroethene	ug/kg	-	-	-	-	-	-
trans-1,3-Dichloropropene	ug/kg	-	-	-	-	-	-
Trichloroethene	ug/kg	-	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	ug/kg	-	-	-	-	-	-
Trifluorotrichloroethane (CFC-113)	ug/kg	-	-	-	-	-	-

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-110 (SS-31/TT39)**	**SS-111 (SS-30/TT-38)**	**SS-113 (SS-35/TP-15)**	**SS-181-AS**	**SS-182-AS**	**SS-183-AS**
Sample ID:		**SS-38443-111918-JC-126**	**SS-38443-111618-JC-111**	**SS-38443-111618-JC-113**	**SS-38443-111918-JC-181**	**SS-38443-111918-JC-182**	**SS-38443-111618-JC-183**
Sample Date:		**11/19/2018**	**11/16/2018**	**11/16/2018**	**11/19/2018**	**11/19/2018**	**11/16/2018**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**
		Duplicate					
Parameters	**Units**						
Vinyl chloride	ug/kg	-	-	-	-	-	-
Xylenes (total)	ug/kg	-	-	-	-	-	-
Semi-Volatiles							
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	-	-	-	-	-	-
2,4,5-Trichlorophenol	ug/kg	-	-	-	-	-	-
2,4,6-Trichlorophenol	ug/kg	-	-	-	-	-	-
2,4-Dichlorophenol	ug/kg	-	-	-	-	-	-
2,4-Dimethylphenol	ug/kg	-	-	-	-	-	-
2,4-Dinitrophenol	ug/kg	-	-	-	-	-	-
2,4-Dinitrotoluene	ug/kg	-	-	-	-	-	-
2,6-Dinitrotoluene	ug/kg	-	-	-	-	-	-
2-Chloronaphthalene	ug/kg	-	-	-	-	-	-
2-Chlorophenol	ug/kg	-	-	-	-	-	-
2-Methylnaphthalene	ug/kg	-	-	-	-	-	-
2-Methylphenol	ug/kg	-	-	-	-	-	-
2-Nitroaniline	ug/kg	-	-	-	-	-	-
2-Nitrophenol	ug/kg	-	-	-	-	-	-
3&4-Methylphenol	ug/kg	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/kg	-	-	-	-	-	-
3-Nitroaniline	ug/kg	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	ug/kg	-	-	-	-	-	-
4-Bromophenyl phenyl ether	ug/kg	-	-	-	-	-	-
4-Chloro-3-methylphenol	ug/kg	-	-	-	-	-	-
4-Chloroaniline	ug/kg	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	ug/kg	-	-	-	-	-	-
4-Methylphenol	ug/kg	-	-	-	-	-	-
4-Nitroaniline	ug/kg	-	-	-	-	-	-
4-Nitrophenol	ug/kg	-	-	-	-	-	-
Acenaphthene	ug/kg	-	-	-	-	-	-
Acenaphthylene	ug/kg	-	-	-	-	-	-
Acetophenone	ug/kg	-	-	-	-	-	-
Anthracene	ug/kg	-	-	-	-	-	-
Atrazine	ug/kg	-	-	-	-	-	-
Benzaldehyde	ug/kg	-	-	-	-	-	-
Benzo(a)anthracene	ug/kg	-	-	-	-	-	-
Benzo(a)pyrene	ug/kg	-	-	-	-	-	-
Benzo(b)fluoranthene	ug/kg	-	-	-	-	-	-
Benzo(g,h,i)perylene	ug/kg	-	-	-	-	-	-
Benzo(k)fluoranthene	ug/kg	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	ug/kg	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	ug/kg	-	-	-	-	-	-
bis(2-Chloroethyl)ether	ug/kg	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	ug/kg	-	-	-	-	-	-
Caprolactam	ug/kg	-	-	-	-	-	-
Carbazole	ug/kg	-	-	-	-	-	-
Chrysene	ug/kg	-	-	-	-	-	-

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-110 (SS-31/TT39)**	**SS-111 (SS-30/TT-38)**	**SS-113 (SS-35/TP-15)**	**SS-181-AS**	**SS-182-AS**	**SS-183-AS**
Sample ID:		**SS-38443-111918-JC-126**	**SS-38443-111618-JC-111**	**SS-38443-111618-JC-113**	**SS-38443-111918-JC-181**	**SS-38443-111918-JC-182**	**SS-38443-111618-JC-183**
Sample Date:		**11/19/2018**	**11/16/2018**	**11/16/2018**	**11/19/2018**	**11/19/2018**	**11/16/2018**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**
		Duplicate					
Parameters	**Units**						
Dibenz(a,h)anthracene	ug/kg	-	-	-	-	-	-
Dibenzofuran	ug/kg	-	-	-	-	-	-
Diethyl phthalate	ug/kg	-	-	-	-	-	-
Dimethyl phthalate	ug/kg	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	ug/kg	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	ug/kg	-	-	-	-	-	-
Fluoranthene	ug/kg	-	-	-	-	-	-
Fluorene	ug/kg	-	-	-	-	-	-
Hexachlorobenzene	ug/kg	-	-	-	-	-	-
Hexachlorobutadiene	ug/kg	-	-	-	-	-	-
Hexachlorocyclopentadiene	ug/kg	-	-	-	-	-	-
Hexachloroethane	ug/kg	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/kg	-	-	-	-	-	-
Isophorone	ug/kg	-	-	-	-	-	-
Naphthalene	ug/kg	-	-	-	-	-	-
Nitrobenzene	ug/kg	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	ug/kg	-	-	-	-	-	-
N-Nitrosodiphenylamine	ug/kg	-	-	-	-	-	-
Pentachlorophenol	ug/kg	-	-	-	-	-	-
Phenanthrene	ug/kg	-	-	-	-	-	-
Phenol	ug/kg	-	-	-	-	-	-
Pyrene	ug/kg	-	-	-	-	-	-
Metals							
Aluminum	mg/kg	-	-	-	-	-	-
Antimony	mg/kg	-	-	-	-	-	-
Arsenic	mg/kg	-	-	-	-	-	-
Barium	mg/kg	-	-	-	-	-	-
Beryllium	mg/kg	-	-	-	-	-	-
Cadmium	mg/kg	-	-	-	-	-	-
Calcium	mg/kg	-	-	-	-	-	-
Chromium	mg/kg	-	-	-	-	-	-
Chromium III (trivalent)	mg/kg	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-
Cobalt	mg/kg	-	-	-	-	-	-
Copper	mg/kg	-	-	-	-	-	-
Iron	mg/kg	-	-	-	-	-	-
Lead	mg/kg	-	-	-	-	-	-
Lead - coarse fraction	mg/kg	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-
Magnesium	mg/kg	-	-	-	-	-	-

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-110 (SS-31/TT39)**	**SS-111 (SS-30/TT-38)**	**SS-113 (SS-35/TP-15)**	**SS-181-AS**	**SS-182-AS**	**SS-183-AS**
Sample ID:		**SS-38443-111918-JC-126**	**SS-38443-111618-JC-111**	**SS-38443-111618-JC-113**	**SS-38443-111918-JC-181**	**SS-38443-111918-JC-182**	**SS-38443-111618-JC-183**
Sample Date:		**11/19/2018**	**11/16/2018**	**11/16/2018**	**11/19/2018**	**11/19/2018**	**11/16/2018**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**
		Duplicate					
Parameters	**Units**						
Manganese	mg/kg	-	-	-	-	-	-
Mercury	mg/kg	-	-	-	-	-	-
Nickel	mg/kg	-	-	-	-	-	-
Potassium	mg/kg	-	-	-	-	-	-
Selenium	mg/kg	-	-	-	-	-	-
Silver	mg/kg	-	-	-	-	-	-
Sodium	mg/kg	-	-	-	-	-	-
Thallium	mg/kg	-	-	-	-	-	-
Vanadium	mg/kg	-	-	-	-	-	-
Zinc	mg/kg	-	-	-	-	-	-
PCBs							
Aroclor-1016 (PCB-1016)	ug/kg	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	ug/kg	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	ug/kg	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	ug/kg	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/kg	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/kg	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/kg	-	-	-	-	-	-
Pesticides							
4,4'-DDD	ug/kg	-	-	-	-	-	-
4,4'-DDE	ug/kg	-	-	-	-	-	-
4,4'-DDT	ug/kg	-	-	-	-	-	-
Aldrin	ug/kg	-	-	-	-	-	-
alpha-BHC	ug/kg	-	-	-	-	-	-
alpha-Chlordane	ug/kg	-	-	-	-	-	-
beta-BHC	ug/kg	-	-	-	-	-	-
delta-BHC	ug/kg	-	-	-	-	-	-
Dieldrin	ug/kg	-	-	-	-	-	-
Endosulfan I	ug/kg	-	-	-	-	-	-
Endosulfan II	ug/kg	-	-	-	-	-	-
Endosulfan sulfate	ug/kg	-	-	-	-	-	-
Endrin	ug/kg	-	-	-	-	-	-
Endrin aldehyde	ug/kg	-	-	-	-	-	-
Endrin ketone	ug/kg	-	-	-	-	-	-
gamma-BHC (lindane)	ug/kg	-	-	-	-	-	-
gamma-Chlordane	ug/kg	-	-	-	-	-	-
Heptachlor	ug/kg	-	-	-	-	-	-
Heptachlor epoxide	ug/kg	-	-	-	-	-	-
Methoxychlor	ug/kg	-	-	-	-	-	-
Toxaphene	ug/kg	-	-	-	-	-	-
Herbicides							
2,4,5-T	ug/kg	14 U	16 U	16 U	-	-	-
2,4,5-TP (Silvex)	ug/kg	15 U	17 U	18 U	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	51 U	60 U	61 U	-	-	-

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-110 (SS-31/TT39)**	**SS-111 (SS-30/TT-38)**	**SS-113 (SS-35/TP-15)**	**SS-181-AS**	**SS-182-AS**	**SS-183-AS**
Sample ID:		**SS-38443-111918-JC-126**	**SS-38443-111618-JC-111**	**SS-38443-111618-JC-113**	**SS-38443-111918-JC-181**	**SS-38443-111918-JC-182**	**SS-38443-111618-JC-183**
Sample Date:		**11/19/2018**	**11/16/2018**	**11/16/2018**	**11/19/2018**	**11/19/2018**	**11/16/2018**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**
		Duplicate					
Parameters	**Units**						
Dioxin/Furans							
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-
Asbestos							
Asbestos	%	-	-	-	-	-	-
Chrysotile asbestos	%	-	-	-	0.25	0.25 <	0.25 <
Geotechnical							
Coarse sand	%	-	-	-	-	-	-
Fine sand	%	-	-	-	-	-	-
Fines	%	-	-	-	-	-	-
Gravel	%	-	-	-	-	-	-
Medium sand	%	-	-	-	-	-	-
Sand	%	-	-	-	-	-	-
Sieve, #4	% passed	-	-	-	-	-	-
Sieve, #10	% passed	-	-	-	-	-	-
Sieve, #20	% passed	-	-	-	-	-	-
Sieve, #40	% passed	-	-	-	-	-	-
Sieve, #60	% passed	-	-	-	-	-	-
Sieve, #80	% passed	-	-	-	-	-	-
Sieve, #100	% passed	-	-	-	-	-	-
Sieve, #200	% passed	-	-	-	-	-	-
Sieve, 0.375 inch	% passed	-	-	-	-	-	-

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-110 (SS-31/TT39)**	**SS-111 (SS-30/TT-38)**	**SS-113 (SS-35/TP-15)**	**SS-181-AS**	**SS-182-AS**	**SS-183-AS**
Sample ID:		**SS-38443-111918-JC-126**	**SS-38443-111618-JC-111**	**SS-38443-111618-JC-113**	**SS-38443-111918-JC-181**	**SS-38443-111918-JC-182**	**SS-38443-111618-JC-183**
Sample Date:		**11/19/2018**	**11/16/2018**	**11/16/2018**	**11/19/2018**	**11/19/2018**	**11/16/2018**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**
		Duplicate					
Parameters	**Units**						
Sieve, 0.75 inch	% passed	-	-	-	-	-	-
Sieve, 1 inch	% passed	-	-	-	-	-	-
Sieve, 1.5 inch	% passed	-	-	-	-	-	-
Sieve, 2 inch	% passed	-	-	-	-	-	-
Sieve, 3 inch	% passed	-	-	-	-	-	-
General Chemistry							
Cyanide (total)	mg/kg	-	-	-	-	-	-
Fraction organic carbon (FOC)	%	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-

Notes
< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
D - Compounds at secondary dilution factor.
E - Estimated because of the presence of interference (Inorganics).
E - Exceed calibration range of GC/MS instrument (Organics).
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%. The
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-184-AS**	**SS-185-AS**	**SS-186-AS**	**SS-187-AS**	**SS-188-AS**	**SS-189-AS**	**SS-190-AS**
Sample ID:		**SS-38443-111618-JC-184**	**SS-38443-111618-JC-185**	**SS-38443-111918-JC-186**	**SS-38443-111618-JC-187**	**SS-38443-101618-JC-188**	**SS-38443-111618-JC-189**	**SS-38443-111918-JC-190**
Sample Date:		**11/16/2018**	**11/16/2018**	**11/19/2018**	**11/16/2018**	**10/16/2018**	**11/16/2018**	**11/19/2018**
Sample Depth:		**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/kg	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	ug/kg	-	-	-	-	-	-	-
1,1,2-Trichloroethane	ug/kg	-	-	-	-	-	-	-
1,1-Dichloroethane	ug/kg	-	-	-	-	-	-	-
1,1-Dichloroethene	ug/kg	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	ug/kg	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	-	-	-	-	-	-	-
1,2-Dichlorobenzene	ug/kg	-	-	-	-	-	-	-
1,2-Dichloroethane	ug/kg	-	-	-	-	-	-	-
1,2-Dichloroethene (total)	ug/kg	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/kg	-	-	-	-	-	-	-
1,3-Dichlorobenzene	ug/kg	-	-	-	-	-	-	-
1,4-Dichlorobenzene	ug/kg	-	-	-	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	-	-	-	-	-	-	-
2-Hexanone	ug/kg	-	-	-	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	-	-	-	-	-	-	-
Acetone	ug/kg	-	-	-	-	-	-	-
Benzene	ug/kg	-	-	-	-	-	-	-
Bromodichloromethane	ug/kg	-	-	-	-	-	-	-
Bromoform	ug/kg	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	ug/kg	-	-	-	-	-	-	-
Carbon disulfide	ug/kg	-	-	-	-	-	-	-
Carbon tetrachloride	ug/kg	-	-	-	-	-	-	-
Chlorobenzene	ug/kg	-	-	-	-	-	-	-
Chloroethane	ug/kg	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	ug/kg	-	-	-	-	-	-	-
Chloromethane (Methyl chloride)	ug/kg	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	ug/kg	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	ug/kg	-	-	-	-	-	-	-
Cyclohexane	ug/kg	-	-	-	-	-	-	-
Dibromochloromethane	ug/kg	-	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	ug/kg	-	-	-	-	-	-	-
Ethylbenzene	ug/kg	-	-	-	-	-	-	-
Isopropyl benzene	ug/kg	-	-	-	-	-	-	-
Methyl acetate	ug/kg	-	-	-	-	-	-	-
Methyl cyclohexane	ug/kg	-	-	-	-	-	-	-
Methyl tert butyl ether (MTBE)	ug/kg	-	-	-	-	-	-	-
Methylene chloride	ug/kg	-	-	-	-	-	-	-
Styrene	ug/kg	-	-	-	-	-	-	-
Tetrachloroethene	ug/kg	-	-	-	-	-	-	-
Toluene	ug/kg	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	ug/kg	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	ug/kg	-	-	-	-	-	-	-
Trichloroethene	ug/kg	-	-	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	ug/kg	-	-	-	-	-	-	-
Trifluorotrichloroethane (CFC-113)	ug/kg	-	-	-	-	-	-	-

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-184-AS**	**SS-185-AS**	**SS-186-AS**	**SS-187-AS**	**SS-188-AS**	**SS-189-AS**	**SS-190-AS**
Sample ID:		**SS-38443-111618-JC-184**	**SS-38443-111618-JC-185**	**SS-38443-111918-JC-186**	**SS-38443-111618-JC-187**	**SS-38443-101618-JC-188**	**SS-38443-111618-JC-189**	**SS-38443-111918-JC-190**
Sample Date:		**11/16/2018**	**11/16/2018**	**11/19/2018**	**11/16/2018**	**10/16/2018**	**11/16/2018**	**11/19/2018**
Sample Depth:		**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**
Parameters	**Units**							
Vinyl chloride	ug/kg	-	-	-	-	-	-	-
Xylenes (total)	ug/kg	-	-	-	-	-	-	-
Semi-Volatiles								
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	ug/kg	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	ug/kg	-	-	-	-	-	-	-
2,4-Dichlorophenol	ug/kg	-	-	-	-	-	-	-
2,4-Dimethylphenol	ug/kg	-	-	-	-	-	-	-
2,4-Dinitrophenol	ug/kg	-	-	-	-	-	-	-
2,4-Dinitrotoluene	ug/kg	-	-	-	-	-	-	-
2,6-Dinitrotoluene	ug/kg	-	-	-	-	-	-	-
2-Chloronaphthalene	ug/kg	-	-	-	-	-	-	-
2-Chlorophenol	ug/kg	-	-	-	-	-	-	-
2-Methylnaphthalene	ug/kg	-	-	-	-	-	-	-
2-Methylphenol	ug/kg	-	-	-	-	-	-	-
2-Nitroaniline	ug/kg	-	-	-	-	-	-	-
2-Nitrophenol	ug/kg	-	-	-	-	-	-	-
3&4-Methylphenol	ug/kg	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/kg	-	-	-	-	-	-	-
3-Nitroaniline	ug/kg	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	ug/kg	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	ug/kg	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	ug/kg	-	-	-	-	-	-	-
4-Chloroaniline	ug/kg	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	ug/kg	-	-	-	-	-	-	-
4-Methylphenol	ug/kg	-	-	-	-	-	-	-
4-Nitroaniline	ug/kg	-	-	-	-	-	-	-
4-Nitrophenol	ug/kg	-	-	-	-	-	-	-
Acenaphthene	ug/kg	-	-	-	-	-	-	-
Acenaphthylene	ug/kg	-	-	-	-	-	-	-
Acetophenone	ug/kg	-	-	-	-	-	-	-
Anthracene	ug/kg	-	-	-	-	-	-	-
Atrazine	ug/kg	-	-	-	-	-	-	-
Benzaldehyde	ug/kg	-	-	-	-	-	-	-
Benzo(a)anthracene	ug/kg	-	-	-	-	-	-	-
Benzo(a)pyrene	ug/kg	-	-	-	-	-	-	-
Benzo(b)fluoranthene	ug/kg	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	ug/kg	-	-	-	-	-	-	-
Benzo(k)fluoranthene	ug/kg	-	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	ug/kg	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	ug/kg	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	ug/kg	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	ug/kg	-	-	-	-	-	-	-
Caprolactam	ug/kg	-	-	-	-	-	-	-
Carbazole	ug/kg	-	-	-	-	-	-	-
Chrysene	ug/kg	-	-	-	-	-	-	-

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-184-AS**	**SS-185-AS**	**SS-186-AS**	**SS-187-AS**	**SS-188-AS**	**SS-189-AS**	**SS-190-AS**
Sample ID:		**SS-38443-111618-JC-184**	**SS-38443-111618-JC-185**	**SS-38443-111918-JC-186**	**SS-38443-111618-JC-187**	**SS-38443-101618-JC-188**	**SS-38443-111618-JC-189**	**SS-38443-111918-JC-190**
Sample Date:		**11/16/2018**	**11/16/2018**	**11/19/2018**	**11/16/2018**	**10/16/2018**	**11/16/2018**	**11/19/2018**
Sample Depth:		**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**
Parameters	**Units**							
Dibenz(a,h)anthracene	ug/kg	-	-	-	-	-	-	-
Dibenzofuran	ug/kg	-	-	-	-	-	-	-
Diethyl phthalate	ug/kg	-	-	-	-	-	-	-
Dimethyl phthalate	ug/kg	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	ug/kg	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	ug/kg	-	-	-	-	-	-	-
Fluoranthene	ug/kg	-	-	-	-	-	-	-
Fluorene	ug/kg	-	-	-	-	-	-	-
Hexachlorobenzene	ug/kg	-	-	-	-	-	-	-
Hexachlorobutadiene	ug/kg	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	ug/kg	-	-	-	-	-	-	-
Hexachloroethane	ug/kg	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/kg	-	-	-	-	-	-	-
Isophorone	ug/kg	-	-	-	-	-	-	-
Naphthalene	ug/kg	-	-	-	-	-	-	-
Nitrobenzene	ug/kg	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	ug/kg	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	ug/kg	-	-	-	-	-	-	-
Pentachlorophenol	ug/kg	-	-	-	-	-	-	-
Phenanthrene	ug/kg	-	-	-	-	-	-	-
Phenol	ug/kg	-	-	-	-	-	-	-
Pyrene	ug/kg	-	-	-	-	-	-	-
Metals								
Aluminum	mg/kg	-	-	-	-	-	-	-
Antimony	mg/kg	-	-	-	-	-	-	-
Arsenic	mg/kg	-	-	-	-	-	-	-
Barium	mg/kg	-	-	-	-	-	-	-
Beryllium	mg/kg	-	-	-	-	-	-	-
Cadmium	mg/kg	-	-	-	-	-	-	-
Calcium	mg/kg	-	-	-	-	-	-	-
Chromium	mg/kg	-	-	-	-	-	-	-
Chromium III (trivalent)	mg/kg	-	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-	-
Cobalt	mg/kg	-	-	-	-	-	-	-
Copper	mg/kg	-	-	-	-	-	-	-
Iron	mg/kg	-	-	-	-	-	-	-
Lead	mg/kg	-	-	-	-	-	-	-
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-
Magnesium	mg/kg	-	-	-	-	-	-	-

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-184-AS**	**SS-185-AS**	**SS-186-AS**	**SS-187-AS**	**SS-188-AS**	**SS-189-AS**	**SS-190-AS**
Sample ID:		**SS-38443-111618-JC-184**	**SS-38443-111618-JC-185**	**SS-38443-111918-JC-186**	**SS-38443-111618-JC-187**	**SS-38443-101618-JC-188**	**SS-38443-111618-JC-189**	**SS-38443-111918-JC-190**
Sample Date:		**11/16/2018**	**11/16/2018**	**11/19/2018**	**11/16/2018**	**10/16/2018**	**11/16/2018**	**11/19/2018**
Sample Depth:		**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**
Parameters	**Units**							
Manganese	mg/kg	-	-	-	-	-	-	-
Mercury	mg/kg	-	-	-	-	-	-	-
Nickel	mg/kg	-	-	-	-	-	-	-
Potassium	mg/kg	-	-	-	-	-	-	-
Selenium	mg/kg	-	-	-	-	-	-	-
Silver	mg/kg	-	-	-	-	-	-	-
Sodium	mg/kg	-	-	-	-	-	-	-
Thallium	mg/kg	-	-	-	-	-	-	-
Vanadium	mg/kg	-	-	-	-	-	-	-
Zinc	mg/kg	-	-	-	-	-	-	-
PCBs								
Aroclor-1016 (PCB-1016)	ug/kg	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	ug/kg	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	ug/kg	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	ug/kg	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/kg	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/kg	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/kg	-	-	-	-	-	-	-
Pesticides								
4,4'-DDD	ug/kg	-	-	-	-	-	-	-
4,4'-DDE	ug/kg	-	-	-	-	-	-	-
4,4'-DDT	ug/kg	-	-	-	-	-	-	-
Aldrin	ug/kg	-	-	-	-	-	-	-
alpha-BHC	ug/kg	-	-	-	-	-	-	-
alpha-Chlordane	ug/kg	-	-	-	-	-	-	-
beta-BHC	ug/kg	-	-	-	-	-	-	-
delta-BHC	ug/kg	-	-	-	-	-	-	-
Dieldrin	ug/kg	-	-	-	-	-	-	-
Endosulfan I	ug/kg	-	-	-	-	-	-	-
Endosulfan II	ug/kg	-	-	-	-	-	-	-
Endosulfan sulfate	ug/kg	-	-	-	-	-	-	-
Endrin	ug/kg	-	-	-	-	-	-	-
Endrin aldehyde	ug/kg	-	-	-	-	-	-	-
Endrin ketone	ug/kg	-	-	-	-	-	-	-
gamma-BHC (lindane)	ug/kg	-	-	-	-	-	-	-
gamma-Chlordane	ug/kg	-	-	-	-	-	-	-
Heptachlor	ug/kg	-	-	-	-	-	-	-
Heptachlor epoxide	ug/kg	-	-	-	-	-	-	-
Methoxychlor	ug/kg	-	-	-	-	-	-	-
Toxaphene	ug/kg	-	-	-	-	-	-	-
Herbicides								
2,4,5-T	ug/kg	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/kg	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	-	-	-	-	-	-	-

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-184-AS**	**SS-185-AS**	**SS-186-AS**	**SS-187-AS**	**SS-188-AS**	**SS-189-AS**	**SS-190-AS**
Sample ID:		**SS-38443-111618-JC-184**	**SS-38443-111618-JC-185**	**SS-38443-111918-JC-186**	**SS-38443-111618-JC-187**	**SS-38443-101618-JC-188**	**SS-38443-111618-JC-189**	**SS-38443-111918-JC-190**
Sample Date:		**11/16/2018**	**11/16/2018**	**11/19/2018**	**11/16/2018**	**10/16/2018**	**11/16/2018**	**11/19/2018**
Sample Depth:		**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**
Parameters	**Units**							
Dioxin/Furans								
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Asbestos								
Asbestos	%	-	-	ND	-	-	-	-
Chrysotile asbestos	%	0.25 <	0.25	-	0.25 <	0.5	0.25 <	0.25 <
Geotechnical								
Coarse sand	%	-	-	-	-	-	-	-
Fine sand	%	-	-	-	-	-	-	-
Fines	%	-	-	-	-	-	-	-
Gravel	%	-	-	-	-	-	-	-
Medium sand	%	-	-	-	-	-	-	-
Sand	%	-	-	-	-	-	-	-
Sieve, #4	% passed	-	-	-	-	-	-	-
Sieve, #10	% passed	-	-	-	-	-	-	-
Sieve, #20	% passed	-	-	-	-	-	-	-
Sieve, #40	% passed	-	-	-	-	-	-	-
Sieve, #60	% passed	-	-	-	-	-	-	-
Sieve, #80	% passed	-	-	-	-	-	-	-
Sieve, #100	% passed	-	-	-	-	-	-	-
Sieve, #200	% passed	-	-	-	-	-	-	-
Sieve, 0.375 inch	% passed	-	-	-	-	-	-	-

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-184-AS**	**SS-185-AS**	**SS-186-AS**	**SS-187-AS**	**SS-188-AS**	**SS-189-AS**	**SS-190-AS**
Sample ID:		**SS-38443-111618-JC-184**	**SS-38443-111618-JC-185**	**SS-38443-111918-JC-186**	**SS-38443-111618-JC-187**	**SS-38443-101618-JC-188**	**SS-38443-111618-JC-189**	**SS-38443-111918-JC-190**
Sample Date:		**11/16/2018**	**11/16/2018**	**11/19/2018**	**11/16/2018**	**10/16/2018**	**11/16/2018**	**11/19/2018**
Sample Depth:		**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**
Parameters	**Units**							
Sieve, 0.75 inch	% passed	-	-	-	-	-	-	-
Sieve, 1 inch	% passed	-	-	-	-	-	-	-
Sieve, 1.5 inch	% passed	-	-	-	-	-	-	-
Sieve, 2 inch	% passed	-	-	-	-	-	-	-
Sieve, 3 inch	% passed	-	-	-	-	-	-	-
General Chemistry								
Cyanide (total)	mg/kg	-	-	-	-	-	-	-
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-

Notes
< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
D - Compounds at secondary dilution factor.
E - Estimated because of the presence of interference (Inorganics).
E - Exceed calibration range of GC/MS instrument (Organics).
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%. The
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-191-AS**	**SS-192-AS**	**TP-1**	**TP-1**	**TP-1**	**TP-1**
Sample ID:		**SS-38443-111618-JC-191**	**SS-38443-111618-JC-192**	**S-38443-092308-KMV-004**	**S-38443-092308-KMV-003**	**S-38443-092308-KMV-002**	**S-38443-092308-KMV-001**
Sample Date:		**11/16/2018**	**11/16/2018**	**9/23/2008**	**9/23/2008**	**9/23/2008**	**9/23/2008**
Sample Depth:		**0-0.5 ft BGS**	**0-0.5 ft BGS**	**4 ft BGS**	**6 ft BGS**	**8 ft BGS**	**13 ft BGS**
Parameters	**Units**						
Volatiles							
1,1,1-Trichloroethane	ug/kg	-	-	5.2 U	6.2 U	7.0 U	6.0 U
1,1,2,2-Tetrachloroethane	ug/kg	-	-	5.2 U	6.2 U	7.0 U	6.0 UJ
1,1,2-Trichloroethane	ug/kg	-	-	5.2 U	6.2 U	7.0 U	6.0 U
1,1-Dichloroethane	ug/kg	-	-	5.2 U	6.2 U	7.0 U	6.0 U
1,1-Dichloroethene	ug/kg	-	-	5.2 U	6.2 U	7.0 U	6.0 U
1,2,4-Trichlorobenzene	ug/kg	-	-	5.2 U	6.2 U	7.0 U	6.0 UJ
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	-	-	10 U	12 U	14 U	12 UJ
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	-	-	5.2 U	6.2 U	7.0 U	6.0 U
1,2-Dichlorobenzene	ug/kg	-	-	5.2 U	6.2 U	7.0 U	6.0 UJ
1,2-Dichloroethane	ug/kg	-	-	5.2 U	6.2 U	7.0 U	6.0 U
1,2-Dichloroethene (total)	ug/kg	-	-	-	-	-	-
1,2-Dichloropropane	ug/kg	-	-	5.2 U	6.2 U	7.0 U	6.0 U
1,3-Dichlorobenzene	ug/kg	-	-	5.2 U	6.2 U	7.0 U	6.0 UJ
1,4-Dichlorobenzene	ug/kg	-	-	5.2 U	6.2 U	7.0 U	0.87 J
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	-	-	21 U	3.4 J	4.4 J	24 U
2-Hexanone	ug/kg	-	-	21 U	25 U	28 U	24 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	-	-	21 U	25 U	28 U	24 U
Acetone	ug/kg	-	-	21 U	9.3 J	13 J	24 U
Benzene	ug/kg	-	-	5.2 U	6.2 U	7.0 U	6.0 U
Bromodichloromethane	ug/kg	-	-	5.2 U	6.2 U	7.0 U	6.0 U
Bromoform	ug/kg	-	-	5.2 U	6.2 U	7.0 U	6.0 U
Bromomethane (Methyl bromide)	ug/kg	-	-	5.2 U	6.2 U	7.0 U	6.0 U
Carbon disulfide	ug/kg	-	-	5.2 U	6.2 U	7.0 U	6.0 U
Carbon tetrachloride	ug/kg	-	-	5.2 U	6.2 U	7.0 U	6.0 U
Chlorobenzene	ug/kg	-	-	5.2 U	6.2 U	7.0 U	6.0 U
Chloroethane	ug/kg	-	-	5.2 U	6.2 U	7.0 U	6.0 U
Chloroform (Trichloromethane)	ug/kg	-	-	5.2 U	6.2 U	7.0 U	6.0 U
Chloromethane (Methyl chloride)	ug/kg	-	-	5.2 U	6.2 U	7.0 U	6.0 U
cis-1,2-Dichloroethene	ug/kg	-	-	5.2 U	6.2 U	7.0 U	6.0 U
cis-1,3-Dichloropropene	ug/kg	-	-	5.2 U	6.2 U	7.0 U	6.0 U
Cyclohexane	ug/kg	-	-	10 U	12 U	14 U	12 U
Dibromochloromethane	ug/kg	-	-	5.2 U	6.2 U	7.0 U	6.0 U
Dichlorodifluoromethane (CFC-12)	ug/kg	-	-	5.2 U	6.2 U	7.0 U	6.0 U
Ethylbenzene	ug/kg	-	-	5.2 U	6.2 U	7.0 U	6.0 U
Isopropyl benzene	ug/kg	-	-	5.2 U	6.2 U	7.0 U	6.0 U
Methyl acetate	ug/kg	-	-	10 U	12 U	14 U	12 U
Methyl cyclohexane	ug/kg	-	-	10 U	12 U	14 U	12 U
Methyl tert butyl ether (MTBE)	ug/kg	-	-	21 U	25 U	28 U	24 U
Methylene chloride	ug/kg	-	-	5.2 U	6.2 U	2.6 J	6.0 U
Styrene	ug/kg	-	-	5.2 U	6.2 U	7.0 U	6.0 U
Tetrachloroethene	ug/kg	-	-	5.2 U	6.2 U	7.0 U	6.0 U
Toluene	ug/kg	-	-	5.2 U	6.2 U	7.0 U	6.0 U
trans-1,2-Dichloroethene	ug/kg	-	-	5.2 U	6.2 U	7.0 U	6.0 U
trans-1,3-Dichloropropene	ug/kg	-	-	5.2 U	6.2 U	7.0 U	6.0 U
Trichloroethene	ug/kg	-	-	5.2 U	6.2 U	7.0 U	6.0 U
Trichlorofluoromethane (CFC-11)	ug/kg	-	-	5.2 U	6.2 U	7.0 U	6.0 U
Trifluorotrichloroethane (CFC-113)	ug/kg	-	-	5.2 U	6.2 U	7.0 U	6.0 U

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-191-AS**	**SS-192-AS**	**TP-1**	**TP-1**	**TP-1**	**TP-1**
Sample ID:		**SS-38443-111618-JC-191**	**SS-38443-111618-JC-192**	**S-38443-092308-KMV-004**	**S-38443-092308-KMV-003**	**S-38443-092308-KMV-002**	**S-38443-092308-KMV-001**
Sample Date:		**11/16/2018**	**11/16/2018**	**9/23/2008**	**9/23/2008**	**9/23/2008**	**9/23/2008**
Sample Depth:		**0-0.5 ft BGS**	**0-0.5 ft BGS**	**4 ft BGS**	**6 ft BGS**	**8 ft BGS**	**13 ft BGS**
Parameters	**Units**						
Vinyl chloride	ug/kg	-	-	5.2 U	6.2 U	7.0 U	6.0 U
Xylenes (total)	ug/kg	-	-	10 U	12 U	14 U	12 U
Semi-Volatiles							
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	-	-	110 U	110 U	130 U	120 U
2,4,5-Trichlorophenol	ug/kg	-	-	160 U	170 U	190 U	180 U
2,4,6-Trichlorophenol	ug/kg	-	-	160 U	170 U	190 U	180 U
2,4-Dichlorophenol	ug/kg	-	-	160 U	170 U	190 U	180 U
2,4-Dimethylphenol	ug/kg	-	-	160 U	170 U	190 U	180 U
2,4-Dinitrophenol	ug/kg	-	-	360 U	370 U	430 U	R
2,4-Dinitrotoluene	ug/kg	-	-	220 U	230 U	260 U	240 U
2,6-Dinitrotoluene	ug/kg	-	-	220 U	230 U	260 U	240 U
2-Chloronaphthalene	ug/kg	-	-	55 U	57 U	65 U	60 U
2-Chlorophenol	ug/kg	-	-	55 U	57 U	65 U	60 U
2-Methylnaphthalene	ug/kg	-	-	13	12	16	28
2-Methylphenol	ug/kg	-	-	220 U	230 U	260 U	240 U
2-Nitroaniline	ug/kg	-	-	220 U	230 U	260 U	240 U
2-Nitrophenol	ug/kg	-	-	55 U	57 U	65 U	60 U
3&4-Methylphenol	ug/kg	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/kg	-	-	110 U	110 U	130 U	120 U
3-Nitroaniline	ug/kg	-	-	220 U	230 U	260 U	240 U
4,6-Dinitro-2-methylphenol	ug/kg	-	-	160 U	170 U	190 U	R
4-Bromophenyl phenyl ether	ug/kg	-	-	55 U	57 U	65 U	60 U
4-Chloro-3-methylphenol	ug/kg	-	-	160 U	170 U	190 U	180 U
4-Chloroaniline	ug/kg	-	-	160 U	170 U	190 U	180 U
4-Chlorophenyl phenyl ether	ug/kg	-	-	55 U	57 U	65 U	60 U
4-Methylphenol	ug/kg	-	-	220 U	230 U	260 U	240 U
4-Nitroaniline	ug/kg	-	-	220 U	230 U	260 U	240 U
4-Nitrophenol	ug/kg	-	-	360 U	370 U	430 U	400 U
Acenaphthene	ug/kg	-	-	9.7	7.5 U	8.6 U	14
Acenaphthylene	ug/kg	-	-	22	7.5 U	8.6 U	37
Acetophenone	ug/kg	-	-	110 U	110 U	130 U	120 U
Anthracene	ug/kg	-	-	83	8.6	8.6 U	39
Atrazine	ug/kg	-	-	220 U	230 U	260 U	240 U
Benzaldehyde	ug/kg	-	-	110 U	110 U	130 U	120 U
Benzo(a)anthracene	ug/kg	-	-	1100	7.5 U	8.6 U	140
Benzo(a)pyrene	ug/kg	-	-	980	7.5 U	8.6 U	140
Benzo(b)fluoranthene	ug/kg	-	-	1800	7.5 U	8.6 U	180 J
Benzo(g,h,i)perylene	ug/kg	-	-	920	7.5 U	8.6 U	120 J
Benzo(k)fluoranthene	ug/kg	-	-	710	7.5 U	8.6 U	52
Biphenyl (1,1-Biphenyl)	ug/kg	-	-	55 U	57 U	65 U	60 U
bis(2-Chloroethoxy)methane	ug/kg	-	-	110 U	110 U	130 U	120 U
bis(2-Chloroethyl)ether	ug/kg	-	-	110 U	110 U	130 U	120 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	-	-	55 U	57 U	46 J	110
Butyl benzylphthalate (BBP)	ug/kg	-	-	55 U	57 U	65 U	60 U
Caprolactam	ug/kg	-	-	360 U	370 U	430 U	400 U
Carbazole	ug/kg	-	-	22 J	57 U	65 U	60 U
Chrysene	ug/kg	-	-	1300	7.5 U	11	150

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-191-AS**	**SS-192-AS**	**TP-1**	**TP-1**	**TP-1**	**TP-1**
Sample ID:		**SS-38443-111618-JC-191**	**SS-38443-111618-JC-192**	**S-38443-092308-KMV-004**	**S-38443-092308-KMV-003**	**S-38443-092308-KMV-002**	**S-38443-092308-KMV-001**
Sample Date:		**11/16/2018**	**11/16/2018**	**9/23/2008**	**9/23/2008**	**9/23/2008**	**9/23/2008**
Sample Depth:		**0-0.5 ft BGS**	**0-0.5 ft BGS**	**4 ft BGS**	**6 ft BGS**	**8 ft BGS**	**13 ft BGS**
Parameters	**Units**						
Dibenz(a,h)anthracene	ug/kg	-	-	270	7.5 U	8.6 U	22
Dibenzofuran	ug/kg	-	-	55 U	57 U	65 U	60 U
Diethyl phthalate	ug/kg	-	-	55 U	57 U	65 U	60 U
Dimethyl phthalate	ug/kg	-	-	55 U	57 U	65 U	60 U
Di-n-butylphthalate (DBP)	ug/kg	-	-	55 U	57 U	65 U	60 U
Di-n-octyl phthalate (DnOP)	ug/kg	-	-	55 U	57 U	65 U	60 U
Fluoranthene	ug/kg	-	-	1400	18	15	230 J
Fluorene	ug/kg	-	-	8.2	9.3	8.6 U	23
Hexachlorobenzene	ug/kg	-	-	7.3 U	7.5 U	8.6 U	8.0 U
Hexachlorobutadiene	ug/kg	-	-	55 U	57 U	65 U	60 U
Hexachlorocyclopentadiene	ug/kg	-	-	360 U	370 U	430 U	R
Hexachloroethane	ug/kg	-	-	55 U	57 U	65 U	60 U
Indeno(1,2,3-cd)pyrene	ug/kg	-	-	850	7.5 U	8.6 U	73 J
Isophorone	ug/kg	-	-	55 U	57 U	65 U	60 U
Naphthalene	ug/kg	-	-	13	7.5 U	8.7	21
Nitrobenzene	ug/kg	-	-	110 U	110 U	130 U	120 U
N-Nitrosodi-n-propylamine	ug/kg	-	-	55 U	57 U	65 U	60 U
N-Nitrosodiphenylamine	ug/kg	-	-	55 U	57 U	65 U	60 U
Pentachlorophenol	ug/kg	-	-	160 U	170 U	190 U	180 U
Phenanthrene	ug/kg	-	-	370	25	14	140
Phenol	ug/kg	-	-	55 U	57 U	65 U	60 U
Pyrene	ug/kg	-	-	1100	15	16	250
Metals							
Aluminum	mg/kg	-	-	4380	7780	7800	5540
Antimony	mg/kg	-	-	0.44 J	0.78 J	4.2 J	1.1 J
Arsenic	mg/kg	-	-	5.2 J	35.4 J	43.2 J	14.9 J
Barium	mg/kg	-	-	49.1	172	215	98.8
Beryllium	mg/kg	-	-	0.27 J	1.8 J	2.1 J	1.1 J
Cadmium	mg/kg	-	-	0.28 J	0.35 J	0.39 J	0.42 J
Calcium	mg/kg	-	-	47600	16800	12500	57500
Chromium	mg/kg	-	-	8.7 J	20.0 J	21.8 J	15.0 J
Chromium III (trivalent)	mg/kg	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-
Cobalt	mg/kg	-	-	2.9 J	6.6 J	6.4 J	4.8 J
Copper	mg/kg	-	-	22.0	28.0	34.5	25.8
Iron	mg/kg	-	-	8520	13400	16000	12500
Lead	mg/kg	-	-	32.2	15.5	23.1	17.7
Lead - coarse fraction	mg/kg	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-
Magnesium	mg/kg	-	-	15800	6050	4540	33400

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-191-AS**	**SS-192-AS**	**TP-1**	**TP-1**	**TP-1**	**TP-1**
Sample ID:		**SS-38443-111618-JC-191**	**SS-38443-111618-JC-192**	**S-38443-092308-KMV-004**	**S-38443-092308-KMV-003**	**S-38443-092308-KMV-002**	**S-38443-092308-KMV-001**
Sample Date:		**11/16/2018**	**11/16/2018**	**9/23/2008**	**9/23/2008**	**9/23/2008**	**9/23/2008**
Sample Depth:		**0-0.5 ft BGS**	**0-0.5 ft BGS**	**4 ft BGS**	**6 ft BGS**	**8 ft BGS**	**13 ft BGS**
Parameters	**Units**						
Manganese	mg/kg	-	-	321	66.4	79.3	136
Mercury	mg/kg	-	-	0.048 J	0.072 J	0.054 J	0.068 J
Nickel	mg/kg	-	-	9.1	14.6	16.3	11.9
Potassium	mg/kg	-	-	533 J	1290	1220	908
Selenium	mg/kg	-	-	27.3 U	6.6 J	8.9 J	7.2 J
Silver	mg/kg	-	-	1.1 U	1.1 U	1.3 U	1.2 U
Sodium	mg/kg	-	-	547 U	566 U	646 U	602 U
Thallium	mg/kg	-	-	0.15	1.8	2.0	1.2
Vanadium	mg/kg	-	-	10.9	39.7	41.9	30.2
Zinc	mg/kg	-	-	60.0 J	30.8 J	37.6 J	40.1 J
PCBs							
Aroclor-1016 (PCB-1016)	ug/kg	-	-	36 U	190 U	210 U	200 U
Aroclor-1221 (PCB-1221)	ug/kg	-	-	36 U	190 U	210 U	200 U
Aroclor-1232 (PCB-1232)	ug/kg	-	-	36 U	190 U	210 U	200 U
Aroclor-1242 (PCB-1242)	ug/kg	-	-	36 U	190 U	210 U	200 U
Aroclor-1248 (PCB-1248)	ug/kg	-	-	36 U	1000	990	2700
Aroclor-1254 (PCB-1254)	ug/kg	-	-	36 U	190 U	210 U	200 U
Aroclor-1260 (PCB-1260)	ug/kg	-	-	36 U	160 J	180 J	270
Pesticides							
4,4'-DDD	ug/kg	-	-	93 U	96 U	110 U	100 U
4,4'-DDE	ug/kg	-	-	93 U	46 J	27 J	69 J
4,4'-DDT	ug/kg	-	-	93 UJ	96 UJ	110 UJ	100 UJ
Aldrin	ug/kg	-	-	93 U	96 U	110 U	100 U
alpha-BHC	ug/kg	-	-	93 U	96 U	110 U	100 U
alpha-Chlordane	ug/kg	-	-	93 U	96 U	110 U	100 U
beta-BHC	ug/kg	-	-	93 U	96 U	110 U	100 U
delta-BHC	ug/kg	-	-	93 U	96 U	110 U	100 U
Dieldrin	ug/kg	-	-	93 U	96 U	110 U	100 U
Endosulfan I	ug/kg	-	-	93 U	96 U	110 U	100 U
Endosulfan II	ug/kg	-	-	93 U	96 U	110 U	100 U
Endosulfan sulfate	ug/kg	-	-	93 U	96 U	110 U	100 U
Endrin	ug/kg	-	-	93 U	96 U	110 U	100 U
Endrin aldehyde	ug/kg	-	-	93 U	96 U	110 U	100 U
Endrin ketone	ug/kg	-	-	93 U	96 U	110 U	100 U
gamma-BHC (lindane)	ug/kg	-	-	93 U	96 U	110 U	100 U
gamma-Chlordane	ug/kg	-	-	93 U	43 J	36 J	100 U
Heptachlor	ug/kg	-	-	93 U	96 U	110 U	100 U
Heptachlor epoxide	ug/kg	-	-	93 U	96 U	110 U	100 U
Methoxychlor	ug/kg	-	-	180 U	190 U	210 U	200 U
Toxaphene	ug/kg	-	-	3700 UJ	3800 UJ	4300 UJ	4000 UJ
Herbicides							
2,4,5-T	ug/kg	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/kg	-	-	22 U	23 U	26 U	24 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	-	-	87 U	91 U	100 U	96 U

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-191-AS**	**SS-192-AS**	**TP-1**	**TP-1**	**TP-1**	**TP-1**
Sample ID:		**SS-38443-111618-JC-191**	**SS-38443-111618-JC-192**	**S-38443-092308-KMV-004**	**S-38443-092308-KMV-003**	**S-38443-092308-KMV-002**	**S-38443-092308-KMV-001**
Sample Date:		**11/16/2018**	**11/16/2018**	**9/23/2008**	**9/23/2008**	**9/23/2008**	**9/23/2008**
Sample Depth:		**0-0.5 ft BGS**	**0-0.5 ft BGS**	**4 ft BGS**	**6 ft BGS**	**8 ft BGS**	**13 ft BGS**
Parameters	**Units**						
Dioxin/Furans							
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-
Asbestos							
Asbestos	%	ND	-	-	-	-	-
Chrysotile asbestos	%	-	0.25 <	-	-	-	-
Geotechnical							
Coarse sand	%	-	-	-	-	-	-
Fine sand	%	-	-	-	-	-	-
Fines	%	-	-	-	-	-	-
Gravel	%	-	-	-	-	-	-
Medium sand	%	-	-	-	-	-	-
Sand	%	-	-	-	-	-	-
Sieve, #4	% passed	-	-	-	-	-	-
Sieve, #10	% passed	-	-	-	-	-	-
Sieve, #20	% passed	-	-	-	-	-	-
Sieve, #40	% passed	-	-	-	-	-	-
Sieve, #60	% passed	-	-	-	-	-	-
Sieve, #80	% passed	-	-	-	-	-	-
Sieve, #100	% passed	-	-	-	-	-	-
Sieve, #200	% passed	-	-	-	-	-	-
Sieve, 0.375 inch	% passed	-	-	-	-	-	-

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-191-AS**	**SS-192-AS**	**TP-1**	**TP-1**	**TP-1**	**TP-1**
Sample ID:		**SS-38443-111618-JC-191**	**SS-38443-111618-JC-192**	**S-38443-092308-KMV-004**	**S-38443-092308-KMV-003**	**S-38443-092308-KMV-002**	**S-38443-092308-KMV-001**
Sample Date:		**11/16/2018**	**11/16/2018**	**9/23/2008**	**9/23/2008**	**9/23/2008**	**9/23/2008**
Sample Depth:		**0-0.5 ft BGS**	**0-0.5 ft BGS**	**4 ft BGS**	**6 ft BGS**	**8 ft BGS**	**13 ft BGS**
Parameters	**Units**						
Sieve, 0.75 inch	% passed	-	-	-	-	-	-
Sieve, 1 inch	% passed	-	-	-	-	-	-
Sieve, 1.5 inch	% passed	-	-	-	-	-	-
Sieve, 2 inch	% passed	-	-	-	-	-	-
Sieve, 3 inch	% passed	-	-	-	-	-	-
General Chemistry							
Cyanide (total)	mg/kg	-	-	0.55 U	0.57 U	0.65 U	0.60 U
Fraction organic carbon (FOC)	%	-	-	-	-	-	-
Total solids	%	-	-	91.5	88.4	77.4	83.0

Notes
< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
D - Compounds at secondary dilution factor.
E - Estimated because of the presence of interference (Inorganics).
E - Exceed calibration range of GC/MS instrument (Organics).
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%. The
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TP-2**	**TP-2**	**TP-3**	**TP-3**	**TP-3**	**TP-3**
Sample ID:		**S-38443-092408-KMV-005**	**S-38443-092408-KMV-006**	**S-38443-092408-KMV-007**	**S-38443-092408-KMV-008**	**S-38443-092408-KMV-009**	**F-38443-092408-KMV-010**
Sample Date:		**9/24/2008**	**9/24/2008**	**9/24/2008**	**9/24/2008**	**9/24/2008**	**9/24/2008**
Sample Depth:		**1 ft BGS**	**5 ft BGS**	**4 ft BGS**	**8.7 ft BGS**	**10.4 ft BGS**	**13.5 ft BGS**
Parameters	**Units**						
Volatiles							
1,1,1-Trichloroethane	ug/kg	4.8 U	2.1 J	4.9 U	320 U	390 UJ	-
1,1,2,2-Tetrachloroethane	ug/kg	4.8 U	R	4.9 U	320 U	390 UJ	-
1,1,2-Trichloroethane	ug/kg	4.8 U	8.5 UJ	4.9 U	320 U	390 UJ	-
1,1-Dichloroethane	ug/kg	4.8 U	8.5 UJ	4.9 U	320 U	220 J	-
1,1-Dichloroethene	ug/kg	4.8 U	8.5 UJ	4.9 U	320 U	390 UJ	-
1,2,4-Trichlorobenzene	ug/kg	4.8 U	R	4.9 U	320 U	390 UJ	-
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	9.6 U	R	9.9 U	640 U	770 UJ	-
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	4.8 U	8.5 UJ	4.9 U	320 U	390 UJ	-
1,2-Dichlorobenzene	ug/kg	4.8 U	R	4.9 U	320 U	390 UJ	-
1,2-Dichloroethane	ug/kg	4.8 U	8.5 UJ	4.9 U	320 U	390 UJ	-
1,2-Dichloroethene (total)	ug/kg	-	-	-	-	-	-
1,2-Dichloropropane	ug/kg	4.8 U	8.5 UJ	4.9 U	320 U	390 UJ	-
1,3-Dichlorobenzene	ug/kg	4.8 U	R	4.9 U	320 U	390 UJ	-
1,4-Dichlorobenzene	ug/kg	4.8 U	2.0 J	4.9 U	320 U	390 UJ	-
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	19 U	34 UJ	20 U	1900	230 J	-
2-Hexanone	ug/kg	19 U	34 UJ	20 U	1300 U	1500 UJ	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	19 U	34 UJ	20 U	1300 U	1500 UJ	-
Acetone	ug/kg	19 U	34 UJ	20 U	1300 U	1500 UJ	-
Benzene	ug/kg	4.8 U	8.5 UJ	4.9 U	23 J	21 J	-
Bromodichloromethane	ug/kg	4.8 U	8.5 UJ	4.9 U	320 U	390 UJ	-
Bromoform	ug/kg	4.8 U	8.5 UJ	4.9 U	320 U	390 UJ	-
Bromomethane (Methyl bromide)	ug/kg	4.8 U	8.5 UJ	4.9 U	320 U	390 UJ	-
Carbon disulfide	ug/kg	4.8 U	8.5 UJ	4.9 U	320 U	390 UJ	-
Carbon tetrachloride	ug/kg	4.8 U	8.5 UJ	4.9 U	320 U	390 UJ	-
Chlorobenzene	ug/kg	4.8 U	8.5 UJ	3.3 J	930	8500 J	-
Chloroethane	ug/kg	4.8 U	8.5 UJ	4.9 U	320 U	390 UJ	-
Chloroform (Trichloromethane)	ug/kg	4.8 U	8.5 UJ	4.9 U	320 U	390 UJ	-
Chloromethane (Methyl chloride)	ug/kg	4.8 U	8.5 UJ	4.9 U	320 U	390 UJ	-
cis-1,2-Dichloroethene	ug/kg	4.8 U	8.5 UJ	4.9 U	320 U	390 UJ	-
cis-1,3-Dichloropropene	ug/kg	4.8 U	8.5 UJ	4.9 U	320 U	390 UJ	-
Cyclohexane	ug/kg	9.6 U	17 UJ	9.9 U	78 J	71 J	-
Dibromochloromethane	ug/kg	4.8 U	8.5 UJ	4.9 U	320 U	390 UJ	-
Dichlorodifluoromethane (CFC-12)	ug/kg	4.8 U	8.5 UJ	4.9 U	320 U	390 UJ	-
Ethylbenzene	ug/kg	4.8 U	8.5 UJ	4.9 U	25 J	31 J	-
Isopropyl benzene	ug/kg	4.8 U	8.5 UJ	4.9 U	75 J	390 UJ	-
Methyl acetate	ug/kg	9.6 U	17 UJ	9.9 U	220 J	170 J	-
Methyl cyclohexane	ug/kg	9.6 U	17 UJ	9.9 U	130 J	110 J	-
Methyl tert butyl ether (MTBE)	ug/kg	19 U	34 UJ	20 U	1300 U	1500 UJ	-
Methylene chloride	ug/kg	4.8 U	7.7 J	4.9 U	320 U	390 UJ	-
Styrene	ug/kg	4.8 U	8.5 UJ	4.9 U	320 UJ	390 UJ	-
Tetrachloroethene	ug/kg	4.8 U	8.5 UJ	4.9 U	320 U	25 J	-
Toluene	ug/kg	4.8 U	8.5 UJ	4.9 U	69 J	54 J	-
trans-1,2-Dichloroethene	ug/kg	4.8 U	8.5 UJ	4.9 U	320 U	390 UJ	-
trans-1,3-Dichloropropene	ug/kg	4.8 U	8.5 UJ	4.9 U	320 U	390 UJ	-
Trichloroethene	ug/kg	4.8 U	8.5 UJ	4.9 U	320 U	390 UJ	-
Trichlorofluoromethane (CFC-11)	ug/kg	4.8 U	8.5 UJ	4.9 U	320 U	390 UJ	-
Trifluorotrichloroethane (CFC-113)	ug/kg	4.8 U	21 J	4.9 U	320 U	390 UJ	-

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TP-2**	**TP-2**	**TP-3**	**TP-3**	**TP-3**	**TP-3**
Sample ID:		**S-38443-092408-KMV-005**	**S-38443-092408-KMV-006**	**S-38443-092408-KMV-007**	**S-38443-092408-KMV-008**	**S-38443-092408-KMV-009**	**F-38443-092408-KMV-010**
Sample Date:		**9/24/2008**	**9/24/2008**	**9/24/2008**	**9/24/2008**	**9/24/2008**	**9/24/2008**
Sample Depth:		**1 ft BGS**	**5 ft BGS**	**4 ft BGS**	**8.7 ft BGS**	**10.4 ft BGS**	**13.5 ft BGS**
Parameters	**Units**						
Vinyl chloride	ug/kg	4.8 U	8.5 UJ	4.9 U	320 U	390 UJ	-
Xylenes (total)	ug/kg	9.6 U	17 UJ	9.9 U	290 J	260 J	-
Semi-Volatiles							
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	110 U	160 U	110 U	2800 U	2800 U	-
2,4,5-Trichlorophenol	ug/kg	160 U	240 U	170 U	4200 U	4200 U	-
2,4,6-Trichlorophenol	ug/kg	160 U	240 U	170 U	4200 U	4200 U	-
2,4-Dichlorophenol	ug/kg	160 U	240 U	170 U	4200 U	4200 U	-
2,4-Dimethylphenol	ug/kg	160 U	240 U	170 U	4200 U	4200 U	-
2,4-Dinitrophenol	ug/kg	360 U	520 U	370 U	9200 U	9200 U	-
2,4-Dinitrotoluene	ug/kg	220 U	320 U	220 U	5600 U	5600 U	-
2,6-Dinitrotoluene	ug/kg	220 U	320 U	220 U	5600 U	5600 U	-
2-Chloronaphthalene	ug/kg	55 U	79 U	56 U	1400 U	1400 U	-
2-Chlorophenol	ug/kg	55 U	79 U	56 U	1400 U	1400 U	-
2-Methylnaphthalene	ug/kg	7.3 U	11 U	13	190 U	190 U	-
2-Methylphenol	ug/kg	220 U	320 U	220 U	5600 U	5600 U	-
2-Nitroaniline	ug/kg	220 U	320 U	220 U	5600 U	5600 U	-
2-Nitrophenol	ug/kg	55 U	79 U	56 U	1400 U	1400 U	-
3&4-Methylphenol	ug/kg	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/kg	110 U	160 U	110 U	2800 U	2800 U	-
3-Nitroaniline	ug/kg	220 U	320 U	220 U	5600 U	5600 U	-
4,6-Dinitro-2-methylphenol	ug/kg	160 U	240 U	170 U	4200 U	4200 U	-
4-Bromophenyl phenyl ether	ug/kg	55 U	79 U	56 U	1400 U	1400 U	-
4-Chloro-3-methylphenol	ug/kg	160 U	240 U	170 U	4200 U	4200 U	-
4-Chloroaniline	ug/kg	160 U	240 U	170 U	4200 U	4200 U	-
4-Chlorophenyl phenyl ether	ug/kg	55 U	79 U	56 U	1400 U	1400 U	-
4-Methylphenol	ug/kg	220 U	320 U	220 U	5600 U	5600 U	-
4-Nitroaniline	ug/kg	220 U	320 U	220 U	5600 U	5600 U	-
4-Nitrophenol	ug/kg	360 U	520 U	370 U	9200 U	9200 U	-
Acenaphthene	ug/kg	7.3 U	11 U	18	190 U	190 U	-
Acenaphthylene	ug/kg	7.3 U	11 U	7.4 U	190 U	190 U	-
Acetophenone	ug/kg	110 U	160 U	110 U	2800 U	2800 U	-
Anthracene	ug/kg	7.3 U	11 U	45	430	500	-
Atrazine	ug/kg	220 U	320 U	220 U	5600 U	5600 U	-
Benzaldehyde	ug/kg	110 U	160 U	110 U	2800 U	2800 U	-
Benzo(a)anthracene	ug/kg	33	11 U	160	490	190 U	-
Benzo(a)pyrene	ug/kg	35	11 U	120	320	190 U	-
Benzo(b)fluoranthene	ug/kg	46	11 U	180	530	190 U	-
Benzo(g,h,i)perylene	ug/kg	22	11 U	97	200	190 U	-
Benzo(k)fluoranthene	ug/kg	21	11 U	85	200	190 U	-
Biphenyl (1,1-Biphenyl)	ug/kg	55 U	79 U	56 U	1400 U	1400 U	-
bis(2-Chloroethoxy)methane	ug/kg	110 U	160 U	110 U	2800 U	2800 U	-
bis(2-Chloroethyl)ether	ug/kg	110 U	160 U	110 U	2800 U	2800 U	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	55 U	79 U	32 J	3800	6200	-
Butyl benzylphthalate (BBP)	ug/kg	55 U	79 U	56 U	1400 U	1400 U	-
Caprolactam	ug/kg	360 U	520 U	370 U	9200 U	9200 U	-
Carbazole	ug/kg	55 U	79 U	31 J	1400 U	1400 U	-
Chrysene	ug/kg	41	11 U	140	620	360	-

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TP-2**	**TP-2**	**TP-3**	**TP-3**	**TP-3**	**TP-3**
Sample ID:		**S-38443-092408-KMV-005**	**S-38443-092408-KMV-006**	**S-38443-092408-KMV-007**	**S-38443-092408-KMV-008**	**S-38443-092408-KMV-009**	**F-38443-092408-KMV-010**
Sample Date:		**9/24/2008**	**9/24/2008**	**9/24/2008**	**9/24/2008**	**9/24/2008**	**9/24/2008**
Sample Depth:		**1 ft BGS**	**5 ft BGS**	**4 ft BGS**	**8.7 ft BGS**	**10.4 ft BGS**	**13.5 ft BGS**
Parameters	**Units**						
Dibenz(a,h)anthracene	ug/kg	7.3 U	11 U	23	190 U	190 U	-
Dibenzofuran	ug/kg	55 U	79 U	56 U	1400 U	1400 U	-
Diethyl phthalate	ug/kg	55 U	79 U	56 U	1400 U	1400 U	-
Dimethyl phthalate	ug/kg	55 U	79 U	56 U	2000	1400 U	-
Di-n-butylphthalate (DBP)	ug/kg	55 U	79 U	56 U	1400 U	1400 U	-
Di-n-octyl phthalate (DnOP)	ug/kg	55 U	79 U	56 U	1400 U	1400 U	-
Fluoranthene	ug/kg	73	11 U	360	1600	720	-
Fluorene	ug/kg	7.3 U	11 U	16	1700	3900	-
Hexachlorobenzene	ug/kg	7.3 U	11 U	7.4 U	190 U	190 U	-
Hexachlorobutadiene	ug/kg	55 U	79 U	56 U	1400 U	1400 U	-
Hexachlorocyclopentadiene	ug/kg	360 U	520 U	370 U	9200 U	9200 U	-
Hexachloroethane	ug/kg	55 U	79 U	56 U	1400 U	1400 U	-
Indeno(1,2,3-cd)pyrene	ug/kg	20	11 U	78	190 U	190 U	-
Isophorone	ug/kg	55 U	79 U	56 U	1400 U	1400 U	-
Naphthalene	ug/kg	7.3 U	11 U	10	190 U	190 U	-
Nitrobenzene	ug/kg	110 U	160 U	110 U	2800 U	2800 U	-
N-Nitrosodi-n-propylamine	ug/kg	55 U	79 U	56 U	1400 U	1400 U	-
N-Nitrosodiphenylamine	ug/kg	55 U	79 U	56 U	1400 U	1400 U	-
Pentachlorophenol	ug/kg	160 U	240 U	170 U	4200 U	4200 U	-
Phenanthrene	ug/kg	26	11 U	210	2100	2700	-
Phenol	ug/kg	55 U	79 U	56 U	1400 U	1400 U	-
Pyrene	ug/kg	61	11 U	270	1000	630	-
Metals							
Aluminum	mg/kg	6250	5620	4610	4500	3740	-
Antimony	mg/kg	6.6 U	9.5 U	6.7 U	6.7 U	16.1	-
Arsenic	mg/kg	8.3	22.6	8.9	9.1	8.6	-
Barium	mg/kg	56.7	173	54.7	180	279	-
Beryllium	mg/kg	0.32 J	2.7 J	0.18 J	0.38 J	0.73 J	-
Cadmium	mg/kg	0.29 J	0.20 J	0.89	6.2	4.7	-
Calcium	mg/kg	38700	1360	55100	55700	36500	-
Chromium	mg/kg	9.9	14.9	73.2	59.6	28.5	-
Chromium III (trivalent)	mg/kg	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-
Cobalt	mg/kg	5.1 J	8.1	7.4	6.7	7.1	-
Copper	mg/kg	15.8	34.4	147	446	4030	-
Iron	mg/kg	13500	4960	49400	36700	33800	-
Lead	mg/kg	17.3	14.3 J	47.0	316	1390	-
Lead - coarse fraction	mg/kg	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-
Magnesium	mg/kg	18600	489 J	19300	31900	11500	-

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TP-2**	**TP-2**	**TP-3**	**TP-3**	**TP-3**	**TP-3**
Sample ID:		**S-38443-092408-KMV-005**	**S-38443-092408-KMV-006**	**S-38443-092408-KMV-007**	**S-38443-092408-KMV-008**	**S-38443-092408-KMV-009**	**F-38443-092408-KMV-010**
Sample Date:		**9/24/2008**	**9/24/2008**	**9/24/2008**	**9/24/2008**	**9/24/2008**	**9/24/2008**
Sample Depth:		**1 ft BGS**	**5 ft BGS**	**4 ft BGS**	**8.7 ft BGS**	**10.4 ft BGS**	**13.5 ft BGS**
Parameters	**Units**						
Manganese	mg/kg	445	64.0	542	386	222	-
Mercury	mg/kg	0.079 J	0.16	0.084 J	0.068 J	0.089 J	-
Nickel	mg/kg	11.8	16.6	46.7	52.1	58.5	-
Potassium	mg/kg	735	1250	788	747	624 J	-
Selenium	mg/kg	27.5 U	7.9 J	27.8 U	27.9 U	34.9 U	-
Silver	mg/kg	1.1 U	1.6 U	0.15 J	0.20 J	0.78 J	-
Sodium	mg/kg	550 U	791 U	103 J	131 J	185 J	-
Thallium	mg/kg	0.17	0.61	0.15	0.17	0.70 U	-
Vanadium	mg/kg	17.1	48.6	16.0	19.4	22.5	-
Zinc	mg/kg	53.7 J	20.7 J	97.6 J	189 J	259 J	-
PCBs							
Aroclor-1016 (PCB-1016)	ug/kg	36 U	52 U	37 U	37 U	46 U	-
Aroclor-1221 (PCB-1221)	ug/kg	36 U	52 U	37 U	37 U	46 U	-
Aroclor-1232 (PCB-1232)	ug/kg	36 U	52 U	37 U	37 U	46 U	-
Aroclor-1242 (PCB-1242)	ug/kg	36 U	52 U	37 U	37 U	46 U	-
Aroclor-1248 (PCB-1248)	ug/kg	36 U	52 U	37 U	37 U	46 U	-
Aroclor-1254 (PCB-1254)	ug/kg	36 U	52 U	37 U	37 U	80	-
Aroclor-1260 (PCB-1260)	ug/kg	23 J	47 J	86	110 J	46 U	-
Pesticides							
4,4'-DDD	ug/kg	9.3 U	2.7 U	19 U	95 U	24 U	-
4,4'-DDE	ug/kg	9.3 U	2.7 U	8.4 J	95 U	12 J	-
4,4'-DDT	ug/kg	9.3 UJ	2.7 UJ	19 UJ	95 U	24 UJ	-
Aldrin	ug/kg	9.3 U	2.7 U	19 U	95 U	24 U	-
alpha-BHC	ug/kg	9.3 U	2.7 U	19 U	95 U	24 U	-
alpha-Chlordane	ug/kg	9.3 U	2.7 U	19 U	95 U	24 U	-
beta-BHC	ug/kg	9.3 U	2.7 U	19 U	95 U	24 U	-
delta-BHC	ug/kg	9.3 U	2.7 U	19 U	95 U	24 U	-
Dieldrin	ug/kg	9.3 U	2.7 U	19 U	95 U	24 U	-
Endosulfan I	ug/kg	9.3 U	2.7 U	19 U	95 U	24 U	-
Endosulfan II	ug/kg	9.3 U	2.7 U	19 U	95 U	24 U	-
Endosulfan sulfate	ug/kg	9.3 U	2.7 U	19 U	95 U	24 U	-
Endrin	ug/kg	9.3 U	2.7 U	19 U	95 U	24 U	-
Endrin aldehyde	ug/kg	9.3 U	2.7 U	19 U	95 U	24 U	-
Endrin ketone	ug/kg	9.3 U	2.7 U	19 U	95 U	24 U	-
gamma-BHC (lindane)	ug/kg	9.3 U	2.7 U	19 U	95 U	24 U	-
gamma-Chlordane	ug/kg	9.3 U	2.7 U	19 U	95 U	24 U	-
Heptachlor	ug/kg	9.3 U	2.7 U	19 U	95 U	24 U	-
Heptachlor epoxide	ug/kg	9.3 U	2.7 U	19 U	95 U	24 U	-
Methoxychlor	ug/kg	18 UJ	5.2 UJ	37 UJ	180 U	46 UJ	-
Toxaphene	ug/kg	370 UJ	110 UJ	740 UJ	3700 UJ	940 UJ	-
Herbicides							
2,4,5-T	ug/kg	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/kg	22 U	32 U	22 U	22 U	28 U	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	88 U	130 U	89 U	89 U	110 UJ	-

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TP-2**	**TP-2**	**TP-3**	**TP-3**	**TP-3**	**TP-3**
Sample ID:		**S-38443-092408-KMV-005**	**S-38443-092408-KMV-006**	**S-38443-092408-KMV-007**	**S-38443-092408-KMV-008**	**S-38443-092408-KMV-009**	**F-38443-092408-KMV-010**
Sample Date:		**9/24/2008**	**9/24/2008**	**9/24/2008**	**9/24/2008**	**9/24/2008**	**9/24/2008**
Sample Depth:		**1 ft BGS**	**5 ft BGS**	**4 ft BGS**	**8.7 ft BGS**	**10.4 ft BGS**	**13.5 ft BGS**
Parameters	**Units**						
Dioxin/Furans							
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-
Asbestos							
Asbestos	%	-	-	-	-	-	ND
Chrysotile asbestos	%	-	-	-	-	-	-
Geotechnical							
Coarse sand	%	-	-	-	-	-	-
Fine sand	%	-	-	-	-	-	-
Fines	%	-	-	-	-	-	-
Gravel	%	-	-	-	-	-	-
Medium sand	%	-	-	-	-	-	-
Sand	%	-	-	-	-	-	-
Sieve, #4	% passed	-	-	-	-	-	-
Sieve, #10	% passed	-	-	-	-	-	-
Sieve, #20	% passed	-	-	-	-	-	-
Sieve, #40	% passed	-	-	-	-	-	-
Sieve, #60	% passed	-	-	-	-	-	-
Sieve, #80	% passed	-	-	-	-	-	-
Sieve, #100	% passed	-	-	-	-	-	-
Sieve, #200	% passed	-	-	-	-	-	-
Sieve, 0.375 inch	% passed	-	-	-	-	-	-

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TP-2**	**TP-2**	**TP-3**	**TP-3**	**TP-3**	**TP-3**
Sample ID:		**S-38443-092408-KMV-005**	**S-38443-092408-KMV-006**	**S-38443-092408-KMV-007**	**S-38443-092408-KMV-008**	**S-38443-092408-KMV-009**	**F-38443-092408-KMV-010**
Sample Date:		**9/24/2008**	**9/24/2008**	**9/24/2008**	**9/24/2008**	**9/24/2008**	**9/24/2008**
Sample Depth:		**1 ft BGS**	**5 ft BGS**	**4 ft BGS**	**8.7 ft BGS**	**10.4 ft BGS**	**13.5 ft BGS**
Parameters	**Units**						
Sieve, 0.75 inch	% passed	-	-	-	-	-	-
Sieve, 1 inch	% passed	-	-	-	-	-	-
Sieve, 1.5 inch	% passed	-	-	-	-	-	-
Sieve, 2 inch	% passed	-	-	-	-	-	-
Sieve, 3 inch	% passed	-	-	-	-	-	-
General Chemistry							
Cyanide (total)	mg/kg	0.55 U	0.79 U	0.56 U	0.20 J	0.58 J	-
Fraction organic carbon (FOC)	%	-	-	-	-	-	-
Total solids	%	91.0	63.3	90.1	89.6	71.6	-

Notes
< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
D - Compounds at secondary dilution factor.
E - Estimated because of the presence of interference (Inorganics).
E - Exceed calibration range of GC/MS instrument (Organics).
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%. The
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TP-3**	**TP-4**	**TP-4**	**TP-4**	**TP-11**	**TP-12**	**TP-12**
Sample ID:		**S-38443-092408-KMV-011**	**S-38443-092408-KMV-012**	**S-38443-092408-KMV-013**	**S-38443-092408-KMV-014**	**S-38443-103117-BW-006**	**S-38443-110117-BW-009**	**S-38443-110117-BW-010**
Sample Date:		**9/24/2008**	**9/24/2008**	**9/24/2008**	**9/24/2008**	**10/31/2017**	**11/1/2017**	**11/1/2017**
Sample Depth:		**16 ft BGS**	**5 ft BGS**	**10 ft BGS**	**18.6 ft BGS**	**8-10 ft BGS**	**8-10 ft BGS**	**8-10 ft BGS**
								Duplicate
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/kg	18000 U	11 U	11 U	6.9 U	6.8 J	35 J	29 U
1,1,2,2-Tetrachloroethane	ug/kg	18000 U	11 U	11 U	6.9 U	R	30 U	25 U
1,1,2-Trichloroethane	ug/kg	18000 U	11 U	11 U	6.9 U	0.67 UJ	29 U	24 U
1,1-Dichloroethane	ug/kg	18000 U	11 U	11 U	1.0 J	0.57 U	490	45 J
1,1-Dichloroethene	ug/kg	18000 U	11 U	11 U	6.9 U	0.93 U	45 U	37 U
1,2,4-Trichlorobenzene	ug/kg	18000 U	11 U	11 U	6.9 U	R	32 U	27 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	36000 U	23 U	21 U	14 U	R	60 U	50 U
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	18000 U	11 U	11 U	6.9 U	0.60 U	29 U	24 U
1,2-Dichlorobenzene	ug/kg	18000 U	11 U	11 U	6.9 U	R	22 U	19 U
1,2-Dichloroethane	ug/kg	18000 U	11 U	11 U	6.9 U	0.50 U	37 U	31 U
1,2-Dichloroethene (total)	ug/kg	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/kg	18000 U	11 U	11 U	6.9 U	0.53 U	37 U	31 U
1,3-Dichlorobenzene	ug/kg	18000 U	11 U	11 U	6.9 U	R	47 U	39 U
1,4-Dichlorobenzene	ug/kg	18000 U	11 U	11 U	6.9 U	R	34 U	28 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	72000 U	46 U	43 U	27 U	2.2 U	93 J	58 J
2-Hexanone	ug/kg	72000 U	46 U	43 U	27 U	1.0 UJ	110 U	89 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	72000 U	46 U	43 U	27 U	1.5 UJ	150 J	41 U
Acetone	ug/kg	72000 U	46 U	43 U	19 J	5.3 U	120 U	100 U
Benzene	ug/kg	18000 U	11 U	11 U	6.9 U	0.55 U	63 J	25 U
Bromodichloromethane	ug/kg	18000 U	11 U	11 U	6.9 U	0.57 U	22 U	19 U
Bromoform	ug/kg	18000 U	11 U	11 U	6.9 U	0.69 UJ	29 U	24 U
Bromomethane (Methyl bromide)	ug/kg	18000 U	11 U	11 U	6.9 U	1.0 UJ	35 UJ	29 UJ
Carbon disulfide	ug/kg	18000 U	11 U	11 U	6.9 U	0.36 U	22 U	19 U
Carbon tetrachloride	ug/kg	18000 U	11 U	11 U	6.9 U	0.43 U	34 U	28 U
Chlorobenzene	ug/kg	560000	11 U	11 U	6.9 U	0.57 UJ	1600	1300
Chloroethane	ug/kg	18000 U	11 U	11 U	6.9 U	0.65 U	35 U	29 U
Chloroform (Trichloromethane)	ug/kg	18000 U	11 U	11 U	6.9 U	0.40 U	30 U	25 U
Chloromethane (Methyl chloride)	ug/kg	18000 U	11 U	11 U	6.9 U	0.65 U	22 U	19 U
cis-1,2-Dichloroethene	ug/kg	18000 U	11 U	11 U	6.9 U	0.48 U	44 U	47 J
cis-1,3-Dichloropropene	ug/kg	18000 U	11 U	11 U	6.9 U	0.45 U	29 U	24 U
Cyclohexane	ug/kg	36000 U	23 U	21 U	14 U	0.36 U	66 J	31 U
Dibromochloromethane	ug/kg	18000 U	11 U	11 U	6.9 U	0.52 UJ	42 U	35 U
Dichlorodifluoromethane (CFC-12)	ug/kg	18000 U	11 U	11 U	6.9 U	0.60 U	27 U	23 U
Ethylbenzene	ug/kg	18000 U	11 U	11 U	6.9 U	0.46 UJ	280 J	270
Isopropyl benzene	ug/kg	18000 U	11 U	11 U	6.9 U	0.34 UJ	1800	1200
Methyl acetate	ug/kg	36000 U	23 U	21 U	14 U	2.0 U	210 J	190 J
Methyl cyclohexane	ug/kg	36000 U	23 U	21 U	1.1 J	0.40 U	220 J	66 J
Methyl tert butyl ether (MTBE)	ug/kg	72000 U	46 U	43 U	27 U	0.46 U	32 U	27 U
Methylene chloride	ug/kg	18000 U	11 U	3.6 J	1.5 J	0.41 U	81 U	67 U
Styrene	ug/kg	18000 UJ	11 U	11 U	6.9 U	0.46 UJ	12 U	10 U
Tetrachloroethene	ug/kg	18000 U	11 U	11 U	6.9 U	51 J	53 J	22 U
Toluene	ug/kg	18000 U	11 U	1.2 J	6.9 U	0.58 U	1000	1400
trans-1,2-Dichloroethene	ug/kg	18000 U	11 U	11 U	6.9 U	0.65 U	44 U	36 U
trans-1,3-Dichloropropene	ug/kg	18000 U	11 U	11 U	6.9 U	0.36 UJ	19 U	15 U
Trichloroethene	ug/kg	18000 U	11 U	11 U	6.9 U	4.0 J	46 U	38 U
Trichlorofluoromethane (CFC-11)	ug/kg	18000 U	11 U	11 U	6.9 U	0.41 U	42 U	35 U
Trifluorotrichloroethane (CFC-113)	ug/kg	18000 U	11 U	11 U	6.9 U	0.84 U	29 U	24 U

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TP-3**	**TP-4**	**TP-4**	**TP-4**	**TP-11**	**TP-12**	**TP-12**
Sample ID:		**S-38443-092408-KMV-011**	**S-38443-092408-KMV-012**	**S-38443-092408-KMV-013**	**S-38443-092408-KMV-014**	**S-38443-103117-BW-006**	**S-38443-110117-BW-009**	**S-38443-110117-BW-010**
Sample Date:		**9/24/2008**	**9/24/2008**	**9/24/2008**	**9/24/2008**	**10/31/2017**	**11/1/2017**	**11/1/2017**
Sample Depth:		**16 ft BGS**	**5 ft BGS**	**10 ft BGS**	**18.6 ft BGS**	**8-10 ft BGS**	**8-10 ft BGS**	**8-10 ft BGS**
								Duplicate
Parameters	**Units**							
Vinyl chloride	ug/kg	18000 U	11 U	11 U	6.9 U	0.48 U	21 U	18 U
Xylenes (total)	ug/kg	36000 U	23 U	2.6 J	14 U	0.69 UJ	1600	1300
Semi-Volatiles								
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	170 U	110 U	110 U	600 U	100 U	1000 U	510 U
2,4,5-Trichlorophenol	ug/kg	250 U	160 U	170 U	900 U	270 U	2700 U	1300 U
2,4,6-Trichlorophenol	ug/kg	250 U	160 U	170 U	900 U	95 U	960 U	480 U
2,4-Dichlorophenol	ug/kg	250 U	160 U	170 U	900 U	210 U	2200 U	1100 U
2,4-Dimethylphenol	ug/kg	250 U	160 U	170 U	900 U	210 U	2200 U	1100 U
2,4-Dinitrophenol	ug/kg	550 U	360 U	370 U	2000 U	220 U	2300 U	1100 U
2,4-Dinitrotoluene	ug/kg	330 U	220 U	230 U	1200 U	180 U	1800 U	920 U
2,6-Dinitrotoluene	ug/kg	330 U	220 U	230 U	1200 U	220 U	2300 U	1100 U
2-Chloronaphthalene	ug/kg	84 U	55 U	56 U	300 U	4.8 U	48 U	24 U
2-Chlorophenol	ug/kg	50 J	55 U	56 U	300 U	88 U	880 U	440 U
2-Methylnaphthalene	ug/kg	31	36	1100	120	530	600 J	1600
2-Methylphenol	ug/kg	330 U	220 U	230 U	1200 U	120 U	1200 U	590 U
2-Nitroaniline	ug/kg	330 U	220 U	230 U	1200 U	97 U	980 U	490 U
2-Nitrophenol	ug/kg	84 U	55 U	56 U	300 U	89 U	890 U	450 U
3&4-Methylphenol	ug/kg	-	-	-	-	210 U	2200 U	1100 U
3,3'-Dichlorobenzidine	ug/kg	170 U	110 U	110 U	600 U	190 U	1900 U	970 U
3-Nitroaniline	ug/kg	330 U	220 U	230 U	1200 U	170 U	1700 U	860 U
4,6-Dinitro-2-methylphenol	ug/kg	250 U	160 U	170 U	900 U	98 U	990 U	500 U
4-Bromophenyl phenyl ether	ug/kg	84 U	55 U	56 U	300 U	140 U	1400 U	700 U
4-Chloro-3-methylphenol	ug/kg	250 U	160 U	170 U	900 U	220 U	2300 U	1100 U
4-Chloroaniline	ug/kg	250 U	160 U	170 U	900 U	180 U	1800 U	920 U
4-Chlorophenyl phenyl ether	ug/kg	84 U	55 U	56 U	300 U	140 U	1400 U	700 U
4-Methylphenol	ug/kg	330 U	220 U	230 U	1200 U	-	-	-
4-Nitroaniline	ug/kg	330 U	220 U	230 U	1200 U	280 U	2800 U	1400 U
4-Nitrophenol	ug/kg	550 U	360 U	370 U	2000 U	180 U	1800 U	920 U
Acenaphthene	ug/kg	11 U	7.3 U	7.5 U	40 U	190	82 U	41 U
Acenaphthylene	ug/kg	11 U	7.3 U	7.5 U	40 U	53 J	38 U	19 U
Acetophenone	ug/kg	170 U	110 U	110 U	600 U	98 U	990 U	940 J
Anthracene	ug/kg	57	7.3 U	7.5 U	40 U	370	84 U	350 J
Atrazine	ug/kg	330 U	220 U	230 U	1200 U	97 U	980 U	490 U
Benzaldehyde	ug/kg	170 U	110 U	110 U	600 U	130 U	1300 U	650 U
Benzo(a)anthracene	ug/kg	120	16	100	40 U	1100	68 U	450
Benzo(a)pyrene	ug/kg	88	13	44	40 U	1000	69 U	35 U
Benzo(b)fluoranthene	ug/kg	120	21	110	68	1400	64 U	32 U
Benzo(g,h,i)perylene	ug/kg	55	11	47	40 U	780	38 U	19 U
Benzo(k)fluoranthene	ug/kg	41	7.3 U	7.5 U	40 U	510	73 U	37 U
Biphenyl (1,1-Biphenyl)	ug/kg	84 U	55 U	64	300 U	95 J	380 U	190 U
bis(2-Chloroethoxy)methane	ug/kg	170 U	110 U	110 U	600 U	240 U	2400 U	1200 U
bis(2-Chloroethyl)ether	ug/kg	170 U	110 U	110 U	600 U	21 U	220 U	110 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	82 J	55 U	56 U	160 J	230 J	4400 U	4000
Butyl benzylphthalate (BBP)	ug/kg	84 U	55 U	56 U	300 U	110 U	1100 U	540 U
Caprolactam	ug/kg	550 U	360 U	370 U	2000 U	400 U	4000 U	2000 U
Carbazole	ug/kg	84 U	55 U	56 U	300 U	290 U	2900 U	1500 U
Chrysene	ug/kg	110	18	120	40 U	1200	120 U	610

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TP-3**	**TP-4**	**TP-4**	**TP-4**	**TP-11**	**TP-12**	**TP-12**
Sample ID:		**S-38443-092408-KMV-011**	**S-38443-092408-KMV-012**	**S-38443-092408-KMV-013**	**S-38443-092408-KMV-014**	**S-38443-103117-BW-006**	**S-38443-110117-BW-009**	**S-38443-110117-BW-010**
Sample Date:		**9/24/2008**	**9/24/2008**	**9/24/2008**	**9/24/2008**	**10/31/2017**	**11/1/2017**	**11/1/2017**
Sample Depth:		**16 ft BGS**	**5 ft BGS**	**10 ft BGS**	**18.6 ft BGS**	**8-10 ft BGS**	**8-10 ft BGS**	**8-10 ft BGS**
								Duplicate
Parameters	**Units**							
Dibenz(a,h)anthracene	ug/kg	12	7.3 U	7.5 U	40 U	230	71 U	36 U
Dibenzofuran	ug/kg	84 U	55 U	310	300 U	220 J	71 U	470 J
Diethyl phthalate	ug/kg	84 U	55 U	56 U	300 U	530 J	1700 U	860 U
Dimethyl phthalate	ug/kg	84 U	55 U	56 U	300 U	180 U	1800 U	920 U
Di-n-butylphthalate (DBP)	ug/kg	84 U	55 U	56 U	300 U	160 U	1600 U	810 U
Di-n-octyl phthalate (DnOP)	ug/kg	84 U	55 U	56 U	300 U	84 U	850 U	430 U
Fluoranthene	ug/kg	270	30	120	110	2300	1100	2100
Fluorene	ug/kg	11 U	7.3 U	7.5 U	40 U	180	57 U	920
Hexachlorobenzene	ug/kg	11 U	7.3 U	7.5 U	40 U	22 U	230 U	110 U
Hexachlorobutadiene	ug/kg	84 U	55 U	56 U	300 U	60 U	600 U	300 U
Hexachlorocyclopentadiene	ug/kg	550 U	360 U	370 U	2000 U	87 U	870 U	440 U
Hexachloroethane	ug/kg	84 U	55 U	56 U	300 U	96 U	970 U	490 U
Indeno(1,2,3-cd)pyrene	ug/kg	41	8.1	19	40 U	650	38 U	19 U
Isophorone	ug/kg	84 U	55 U	56 U	300 U	140 U	1400 U	700 U
Naphthalene	ug/kg	22	27	620	64	400	510 J	3100 J
Nitrobenzene	ug/kg	170 U	110 U	110 U	600 U	24 U	240 U	120 U
N-Nitrosodi-n-propylamine	ug/kg	84 U	55 U	56 U	300 U	67 U	680 U	340 U
N-Nitrosodiphenylamine	ug/kg	84 U	55 U	56 U	300 U	220 U	2300 U	1100 U
Pentachlorophenol	ug/kg	250 U	160 U	170 U	900 U	97 U	980 U	490 U
Phenanthrene	ug/kg	180	32	610	110	1600	1700 J	4000 J
Phenol	ug/kg	84 U	55 U	56 U	300 U	310 J	790 U	390 J
Pyrene	ug/kg	210	24	120	110	1900	1000	1900
Metals								
Aluminum	mg/kg	3640	1050	2210	5440	4300 J	1900 J	1800 J
Antimony	mg/kg	10.0 U	6.6 U	6.8 U	56.6	2.4 J	4.4 J	1.1 J
Arsenic	mg/kg	10	2.4	5.5	14.3	15	6.0	5.5
Barium	mg/kg	215	59.4	189	1180	960	150 J	200 J
Beryllium	mg/kg	1.5 J	0.18 J	0.46 J	0.37 J	0.80	0.49	0.46
Cadmium	mg/kg	0.22 J	0.069 J	0.096 J	11.4	1.2	0.55	0.43
Calcium	mg/kg	2350	6700	1980	47100	78000	3500	1400
Chromium	mg/kg	4.3	2.5	6.2	65.8	280	25	24
Chromium III (trivalent)	mg/kg	-	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-	-
Cobalt	mg/kg	4.2 J	2.4 J	5.6	14.2	10	3.2	3.8
Copper	mg/kg	31.7	7.9	20.8	626	1700	690	270
Iron	mg/kg	11200	2190	1860	38900	31000	21000	24000
Lead	mg/kg	7.8 J	3.7 J	7.6 J	549	2000	270 J	250 J
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-
Magnesium	mg/kg	587 J	2770	419 J	9910	40000	930	510

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TP-3**	**TP-4**	**TP-4**	**TP-4**	**TP-11**	**TP-12**	**TP-12**
Sample ID:		**S-38443-092408-KMV-011**	**S-38443-092408-KMV-012**	**S-38443-092408-KMV-013**	**S-38443-092408-KMV-014**	**S-38443-103117-BW-006**	**S-38443-110117-BW-009**	**S-38443-110117-BW-010**
Sample Date:		**9/24/2008**	**9/24/2008**	**9/24/2008**	**9/24/2008**	**10/31/2017**	**11/1/2017**	**11/1/2017**
Sample Depth:		**16 ft BGS**	**5 ft BGS**	**10 ft BGS**	**18.6 ft BGS**	**8-10 ft BGS**	**8-10 ft BGS**	**8-10 ft BGS**
								Duplicate
Parameters	**Units**							
Manganese	mg/kg	22.2	36.8	6.9	364	380 J	190	160
Mercury	mg/kg	0.17 U	0.11 U	0.058 J	0.17	0.12	0.026 J	0.053 J
Nickel	mg/kg	14.3	4.5	11.3	95.8	120	70 J	49 J
Potassium	mg/kg	781 J	160 J	980	683	630	330	280
Selenium	mg/kg	41.9 U	27.5 U	1.1 J	0.64 J	1.3	0.63 U	0.64 U
Silver	mg/kg	1.7 U	0.11 J	1.1 U	1.9	0.29	0.18	0.14 J
Sodium	mg/kg	175 J	550 U	92.4 J	527 J	170 U	150	140 U
Thallium	mg/kg	0.19	0.11 U	0.27	0.16	0.43	0.091 J	0.11 J
Vanadium	mg/kg	15.6	6.4	16.6	19.0	20	6.2	14
Zinc	mg/kg	18.4 J	7.7 J	12.7 J	1030 J	510	150	190
PCBs								
Aroclor-1016 (PCB-1016)	ug/kg	55 U	36 U	37 U	40 U	26 UJ	260 U	130 U
Aroclor-1221 (PCB-1221)	ug/kg	55 U	36 U	37 U	40 U	24 UJ	250 U	120 U
Aroclor-1232 (PCB-1232)	ug/kg	55 U	36 U	37 U	40 U	17 UJ	180 U	85 U
Aroclor-1242 (PCB-1242)	ug/kg	55 U	36 U	37 U	40 U	21 UJ	220 U	110 U
Aroclor-1248 (PCB-1248)	ug/kg	55 U	36 U	37 U	40 U	18 UJ	190 U	91 U
Aroclor-1254 (PCB-1254)	ug/kg	55 U	36 U	37 U	140	290 J	8400 J	2500 J
Aroclor-1260 (PCB-1260)	ug/kg	55 U	36 U	37 U	40 U	19 U	200 U	96 U
Pesticides								
4,4'-DDD	ug/kg	28 U	37 U	38 U	41 U	17 U	70 U	72 U
4,4'-DDE	ug/kg	16 J	12 J	17 J	17 J	16 NJ	25 U	26 U
4,4'-DDT	ug/kg	28 UJ	37 UJ	38 U	41 UJ	23 J	30 U	30 U
Aldrin	ug/kg	28 U	37 U	38 U	41 U	13 U	51 U	52 U
alpha-BHC	ug/kg	28 U	37 U	38 U	41 U	8.4 U	34 U	35 U
alpha-Chlordane	ug/kg	28 U	37 U	38 U	41 U	20 U	80 U	83 U
beta-BHC	ug/kg	28 U	37 U	38 U	41 U	20 U	82 U	85 U
delta-BHC	ug/kg	28 U	37 U	38 U	41 U	6.8 U	27 U	28 U
Dieldrin	ug/kg	28 U	37 U	24 J	41 U	4.7 U	19 U	20 U
Endosulfan I	ug/kg	28 U	37 U	38 U	41 U	6.8 U	27 U	28 U
Endosulfan II	ug/kg	28 U	37 U	22 J	41 U	9.4 U	38 U	39 U
Endosulfan sulfate	ug/kg	28 U	37 U	38 U	41 U	6.3 U	25 U	26 U
Endrin	ug/kg	28 U	37 U	38 U	41 U	7.3 U	30 U	30 U
Endrin aldehyde	ug/kg	28 U	37 U	38 U	41 U	9.4 U	38 U	39 U
Endrin ketone	ug/kg	28 U	37 U	38 U	41 U	5.8 U	23 U	24 U
gamma-BHC (lindane)	ug/kg	28 U	37 U	38 U	41 U	15 U	61 U	63 U
gamma-Chlordane	ug/kg	28 U	37 U	38 U	41 U	7.8 U	32 U	33 U
Heptachlor	ug/kg	28 U	37 U	38 U	41 U	4.1 U	16 U	17 U
Heptachlor epoxide	ug/kg	28 U	37 U	38 U	41 U	13 U	51 U	52 U
Methoxychlor	ug/kg	55 UJ	73 UJ	74 U	80 UJ	6.3 U	25 U	26 U
Toxaphene	ug/kg	1100 UJ	1500 UJ	1500 U	1600 UJ	190 U	780 U	800 U
Herbicides								
2,4,5-T	ug/kg	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/kg	170 U	22 U	23 U	24 U	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	670 U	88 UJ	90 UJ	96 UJ	-	-	-

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TP-3**	**TP-4**	**TP-4**	**TP-4**	**TP-11**	**TP-12**	**TP-12**
Sample ID:		**S-38443-092408-KMV-011**	**S-38443-092408-KMV-012**	**S-38443-092408-KMV-013**	**S-38443-092408-KMV-014**	**S-38443-103117-BW-006**	**S-38443-110117-BW-009**	**S-38443-110117-BW-010**
Sample Date:		**9/24/2008**	**9/24/2008**	**9/24/2008**	**9/24/2008**	**10/31/2017**	**11/1/2017**	**11/1/2017**
Sample Depth:		**16 ft BGS**	**5 ft BGS**	**10 ft BGS**	**18.6 ft BGS**	**8-10 ft BGS**	**8-10 ft BGS**	**8-10 ft BGS**
								Duplicate
Parameters	**Units**							
Dioxin/Furans								
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	150	9.2 U	11 U
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	4500	350	550
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	130	8.2 J	9.0 J
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	390	31	53
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	4.5 J	0.55 U	1.3 J
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	17 J	5.8 J	6.7 J
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	0.23 U	1.2 J	1.9 J
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	14 J	2.2 J	2.5 J
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	16 J	4.7 J	4.8 J
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	1.7 U	0.31 U	0.31 U
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	9.8 J	3.6 J	5.3 J
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	2.5 J	0.66 J	0.75 J
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	5.5 J	6.5 J	6.0 J
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	7.5 J	1.2 J	1.2 J
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	5.8 J	1.9 J	2.0 J
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	16	3.5	3.7
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	0.74 J	0.21 U	0.19 U
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	350 J	20 J	24 J
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	730 J	66 J	110 J
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	200 J	24 J	27 J
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	120 J	40 J	55 J
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	340 J	20 J	20 J
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	450 J	1700 J	610 J
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	650 J	37 J	43 J
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	28 J	6.1 J	7.2 J
Asbestos								
Asbestos	%	-	-	-	-	-	-	-
Chrysotile asbestos	%	-	-	-	-	-	-	-
Geotechnical								
Coarse sand	%	-	-	-	-	-	-	-
Fine sand	%	-	-	-	-	-	-	-
Fines	%	-	-	-	-	-	-	-
Gravel	%	-	-	-	-	-	-	-
Medium sand	%	-	-	-	-	-	-	-
Sand	%	-	-	-	-	-	-	-
Sieve, #4	% passed	-	-	-	-	-	-	-
Sieve, #10	% passed	-	-	-	-	-	-	-
Sieve, #20	% passed	-	-	-	-	-	-	-
Sieve, #40	% passed	-	-	-	-	-	-	-
Sieve, #60	% passed	-	-	-	-	-	-	-
Sieve, #80	% passed	-	-	-	-	-	-	-
Sieve, #100	% passed	-	-	-	-	-	-	-
Sieve, #200	% passed	-	-	-	-	-	-	-
Sieve, 0.375 inch	% passed	-	-	-	-	-	-	-

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TP-3**	**TP-4**	**TP-4**	**TP-4**	**TP-11**	**TP-12**	**TP-12**
Sample ID:		**S-38443-092408-KMV-011**	**S-38443-092408-KMV-012**	**S-38443-092408-KMV-013**	**S-38443-092408-KMV-014**	**S-38443-103117-BW-006**	**S-38443-110117-BW-009**	**S-38443-110117-BW-010**
Sample Date:		**9/24/2008**	**9/24/2008**	**9/24/2008**	**9/24/2008**	**10/31/2017**	**11/1/2017**	**11/1/2017**
Sample Depth:		**16 ft BGS**	**5 ft BGS**	**10 ft BGS**	**18.6 ft BGS**	**8-10 ft BGS**	**8-10 ft BGS**	**8-10 ft BGS**
								Duplicate
Parameters	**Units**							
Sieve, 0.75 inch	% passed	-	-	-	-	-	-	-
Sieve, 1 inch	% passed	-	-	-	-	-	-	-
Sieve, 1.5 inch	% passed	-	-	-	-	-	-	-
Sieve, 2 inch	% passed	-	-	-	-	-	-	-
Sieve, 3 inch	% passed	-	-	-	-	-	-	-
General Chemistry								
Cyanide (total)	mg/kg	0.84 U	0.55 U	0.56 U	0.60 U	0.45 U	0.45 U	0.51 U
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-
Total solids	%	59.7	91.0	88.7	83.0	-	-	-

Notes
< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
D - Compounds at secondary dilution factor.
E - Estimated because of the presence of interference (Inorganics).
E - Exceed calibration range of GC/MS instrument (Organics).
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%. The
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TP-14**	**TP-15**	**TP-16**	**TT-15**	**TT-15**	**TT-31**	**TT-31**
Sample ID:		**S-38443-103117-BW-004**	**S-38443-103017-BW-002**	**S-38443-103117-BW-008**	**S-38443-092508-KMV-016**	**S-38443-092508-KMV-016-D**	**TT-31**	**S-38443-110717-BW-028**
Sample Date:		**10/31/2017**	**10/30/2017**	**10/31/2017**	**9/25/2008**	**9/25/2008**	**11/7/2017**	**11/7/2017**
Sample Depth:		**8-10 ft BGS**	**10-12 ft BGS**	**4-6 ft BGS**	**8.6 ft BGS**	**8.6 ft BGS**	**8-10 ft BGS**	**14-15 ft BGS**
						Duplicate		
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/kg	0.39 UJ	R	0.30 U	5.0 U	4.8 U	-	1.2 J
1,1,2,2-Tetrachloroethane	ug/kg	R	R	0.34 UJ	5.0 U	4.8 U	-	0.53 U
1,1,2-Trichloroethane	ug/kg	R	R	0.50 U	5.0 U	4.8 U	-	0.79 U
1,1-Dichloroethane	ug/kg	0.56 UJ	R	0.43 U	5.0 U	4.8 U	-	33
1,1-Dichloroethene	ug/kg	0.92 UJ	R	0.70 U	5.0 U	4.8 U	-	1.1 U
1,2,4-Trichlorobenzene	ug/kg	R	R	0.31 U	5.0 U	4.8 U	-	0.49 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	R	R	0.88 U	10 U	9.5 U	-	1.4 U
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	R	R	0.45 U	5.0 U	4.8 U	-	0.71 U
1,2-Dichlorobenzene	ug/kg	R	R	0.28 U	5.0 U	4.8 U	-	0.45 U
1,2-Dichloroethane	ug/kg	0.49 UJ	R	0.37 U	5.0 U	4.8 U	-	0.59 U
1,2-Dichloroethene (total)	ug/kg	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/kg	0.53 UJ	R	0.40 U	5.0 U	4.8 U	-	0.63 U
1,3-Dichlorobenzene	ug/kg	R	R	0.37 U	5.0 U	4.8 U	-	0.59 U
1,4-Dichlorobenzene	ug/kg	R	R	0.45 U	5.0 U	4.8 U	-	0.71 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	4.9 J	4.0 J	1.6 U	20 U	19 U	-	2.6 U
2-Hexanone	ug/kg	R	R	0.75 U	20 U	19 U	-	1.2 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	R	R	1.1 U	20 U	19 U	-	1.8 U
Acetone	ug/kg	5.2 UJ	R	3.9 U	20 U	19 U	-	22 U
Benzene	ug/kg	0.54 UJ	R	0.41 U	5.0 U	4.8 U	-	1.0 J
Bromodichloromethane	ug/kg	0.56 UJ	R	0.43 U	5.0 U	4.8 U	-	0.67 U
Bromoform	ug/kg	R	R	0.52 U	5.0 U	4.8 U	-	0.81 U
Bromomethane (Methyl bromide)	ug/kg	1.0 UJ	R	0.76 UJ	5.0 U	4.8 U	-	1.2 U
Carbon disulfide	ug/kg	0.60 J	0.54 J	0.27 U	5.0 U	4.8 U	-	0.43 U
Carbon tetrachloride	ug/kg	0.43 UJ	R	0.32 U	5.0 U	4.8 U	-	0.51 U
Chlorobenzene	ug/kg	R	4.3 J	0.43 U	5.0 U	4.8 U	-	0.67 U
Chloroethane	ug/kg	0.65 UJ	R	0.49 U	5.0 U	4.8 U	-	0.77 U
Chloroform (Trichloromethane)	ug/kg	0.39 UJ	R	0.30 U	5.0 U	4.8 U	-	0.47 U
Chloromethane (Methyl chloride)	ug/kg	0.65 UJ	R	0.49 U	5.0 U	4.8 U	-	0.77 U
cis-1,2-Dichloroethene	ug/kg	0.48 UJ	R	0.36 U	5.0 U	4.8 U	-	0.57 U
cis-1,3-Dichloropropene	ug/kg	R	R	0.34 U	5.0 U	4.8 U	-	0.53 U
Cyclohexane	ug/kg	0.36 UJ	R	0.27 U	10 U	9.5 U	-	0.43 U
Dibromochloromethane	ug/kg	R	R	0.39 U	5.0 U	4.8 U	-	0.61 U
Dichlorodifluoromethane (CFC-12)	ug/kg	0.60 UJ	R	0.45 U	5.0 U	4.8 U	-	0.71 U
Ethylbenzene	ug/kg	R	R	0.35 U	5.0 U	4.8 U	-	0.55 U
Isopropyl benzene	ug/kg	R	R	0.26 U	5.0 U	4.8 U	-	0.41 U
Methyl acetate	ug/kg	2.0 UJ	R	1.5 U	10 U	9.5 U	-	2.4 U
Methyl cyclohexane	ug/kg	0.39 UJ	R	0.30 U	10 U	9.5 U	-	0.47 U
Methyl tert butyl ether (MTBE)	ug/kg	0.46 UJ	R	0.35 U	20 U	19 U	-	0.55 U
Methylene chloride	ug/kg	0.41 UJ	R	0.31 U	5.0 U	4.8 U	-	6.3 U
Styrene	ug/kg	R	R	0.35 U	5.0 U	4.8 U	-	0.55 U
Tetrachloroethene	ug/kg	R	R	0.48 U	5.0 U	4.8 U	-	0.75 U
Toluene	ug/kg	0.70 J	0.42 J	0.44 U	5.0 U	4.8 U	-	0.80 J
trans-1,2-Dichloroethene	ug/kg	0.65 UJ	R	0.49 U	5.0 U	4.8 U	-	0.77 U
trans-1,3-Dichloropropene	ug/kg	R	R	0.27 U	5.0 U	4.8 U	-	0.43 U
Trichloroethene	ug/kg	0.70 UJ	R	0.53 U	5.0 U	4.8 U	-	0.83 U
Trichlorofluoromethane (CFC-11)	ug/kg	0.41 UJ	R	0.31 U	5.0 U	4.8 U	-	0.49 U
Trifluorotrichloroethane (CFC-113)	ug/kg	R	R	0.63 U	5.0 U	4.8 U	-	1.0 U

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TP-14**	**TP-15**	**TP-16**	**TT-15**	**TT-15**	**TT-31**	**TT-31**
Sample ID:		**S-38443-103117-BW-004**	**S-38443-103017-BW-002**	**S-38443-103117-BW-008**	**S-38443-092508-KMV-016**	**S-38443-092508-KMV-016-D**	**TT-31**	**S-38443-110717-BW-028**
Sample Date:		**10/31/2017**	**10/30/2017**	**10/31/2017**	**9/25/2008**	**9/25/2008**	**11/7/2017**	**11/7/2017**
Sample Depth:		**8-10 ft BGS**	**10-12 ft BGS**	**4-6 ft BGS**	**8.6 ft BGS**	**8.6 ft BGS**	**8-10 ft BGS**	**14-15 ft BGS**
						Duplicate		
Parameters	**Units**							
Vinyl chloride	ug/kg	0.48 UJ	R	0.36 U	5.0 U	4.8 U	-	0.57 U
Xylenes (total)	ug/kg	R	R	0.52 U	10 U	9.5 U	-	1.4 J
Semi-Volatiles								
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	12 U	11 U	10 U	1100 U	1200 U	-	24 U
2,4,5-Trichlorophenol	ug/kg	30 U	30 U	27 U	1700 U	1700 U	-	62 U
2,4,6-Trichlorophenol	ug/kg	11 U	11 U	9.4 U	1700 U	1700 U	-	22 U
2,4-Dichlorophenol	ug/kg	24 U	24 U	21 U	1700 U	1700 U	-	50 U
2,4-Dimethylphenol	ug/kg	33 J	24 U	21 U	1700 U	1700 U	-	50 U
2,4-Dinitrophenol	ug/kg	25 U	25 U	22 U	3800 U	3800 U	-	52 U
2,4-Dinitrotoluene	ug/kg	21 U	20 U	18 U	2300 U	2300 U	-	42 U
2,6-Dinitrotoluene	ug/kg	25 U	25 U	22 U	2300 U	2300 U	-	52 U
2-Chloronaphthalene	ug/kg	0.55 U	0.54 U	0.48 U	570 U	580 U	-	1.1 U
2-Chlorophenol	ug/kg	9.9 U	9.8 U	8.7 U	570 U	580 U	-	20 U
2-Methylnaphthalene	ug/kg	440	130	9.0	77 U	77 U	-	170
2-Methylphenol	ug/kg	15 J	20 J	12 U	2300 U	2300 U	-	27 U
2-Nitroaniline	ug/kg	11 U	11 U	9.7 U	2300 U	2300 U	-	23 U
2-Nitrophenol	ug/kg	10 U	9.9 U	8.8 U	570 U	580 U	-	21 U
3&4-Methylphenol	ug/kg	29 J	28 J	21 U	-	-	-	50 U
3,3'-Dichlorobenzidine	ug/kg	22 U	21 U	19 U	1100 U	1200 U	-	45 U
3-Nitroaniline	ug/kg	19 U	19 U	17 U	2300 U	2300 U	-	40 U
4,6-Dinitro-2-methylphenol	ug/kg	11 U	11 U	9.8 U	1700 U	1700 U	-	23 U
4-Bromophenyl phenyl ether	ug/kg	16 U	15 U	14 U	570 U	580 U	-	32 U
4-Chloro-3-methylphenol	ug/kg	25 U	25 U	22 U	1700 U	1700 U	-	52 U
4-Chloroaniline	ug/kg	21 U	20 U	18 U	1700 U	1700 U	-	42 U
4-Chlorophenyl phenyl ether	ug/kg	16 U	15 U	14 U	570 U	580 U	-	32 U
4-Methylphenol	ug/kg	-	-	-	2300 U	2300 U	-	-
4-Nitroaniline	ug/kg	32 U	31 U	28 U	2300 U	2300 U	-	65 U
4-Nitrophenol	ug/kg	21 U	20 U	18 U	3800 U	3800 U	-	42 U
Acenaphthene	ug/kg	43	23	0.81 U	77 U	77 U	-	1.9 U
Acenaphthylene	ug/kg	17	31	11	77 U	77 U	-	15 J
Acetophenone	ug/kg	43 J	19 J	9.8 U	1100 U	1200 U	-	190 J
Anthracene	ug/kg	27	36	16	77 U	77 U	-	51
Atrazine	ug/kg	11 U	11 U	9.7 U	2300 U	2300 U	-	23 U
Benzaldehyde	ug/kg	38 J	21 J	13 U	1100 U	1200 U	-	140 J
Benzo(a)anthracene	ug/kg	61	130	86	77 U	77 U	-	230
Benzo(a)pyrene	ug/kg	46	120	97	77 U	77 U	-	230
Benzo(b)fluoranthene	ug/kg	72	170	170	77 U	77 U	-	510
Benzo(g,h,i)perylene	ug/kg	44	98	48	77 U	77 U	-	290
Benzo(k)fluoranthene	ug/kg	21	77	67	77 U	77 U	-	150
Biphenyl (1,1-Biphenyl)	ug/kg	45 J	17 J	3.7 U	570 U	580 U	-	130
bis(2-Chloroethoxy)methane	ug/kg	27 U	26 U	23 U	1100 U	1200 U	-	55 U
bis(2-Chloroethyl)ether	ug/kg	2.4 U	2.4 U	2.1 U	1100 U	1200 U	-	5.0 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	67 J	75 J	45 U	570 U	580 U	-	2100
Butyl benzylphthalate (BBP)	ug/kg	12 U	12 U	11 U	570 U	580 U	-	25 U
Caprolactam	ug/kg	45 U	44 U	39 U	3800 U	3800 U	-	92 U
Carbazole	ug/kg	33 U	32 U	29 U	570 U	580 U	-	67 U
Chrysene	ug/kg	89	160	91	77 U	77 U	-	410

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TP-14**	**TP-15**	**TP-16**	**TT-15**	**TT-15**	**TT-31**	**TT-31**
Sample ID:		**S-38443-103117-BW-004**	**S-38443-103017-BW-002**	**S-38443-103117-BW-008**	**S-38443-092508-KMV-016**	**S-38443-092508-KMV-016-D**	**TT-31**	**S-38443-110717-BW-028**
Sample Date:		**10/31/2017**	**10/30/2017**	**10/31/2017**	**9/25/2008**	**9/25/2008**	**11/7/2017**	**11/7/2017**
Sample Depth:		**8-10 ft BGS**	**10-12 ft BGS**	**4-6 ft BGS**	**8.6 ft BGS**	**8.6 ft BGS**	**8-10 ft BGS**	**14-15 ft BGS**
						Duplicate		
Parameters	**Units**							
Dibenz(a,h)anthracene	ug/kg	15	26	0.70 U	77 U	77 U	-	76
Dibenzofuran	ug/kg	120	40 J	0.70 U	570 U	580 U	-	150
Diethyl phthalate	ug/kg	19 U	19 U	17 U	570 U	580 U	-	43 J
Dimethyl phthalate	ug/kg	21 U	20 U	18 U	570 U	580 U	-	42 U
Di-n-butylphthalate (DBP)	ug/kg	18 U	18 U	28 J	570 U	580 U	-	37 U
Di-n-octyl phthalate (DnOP)	ug/kg	9.6 U	9.4 U	8.4 U	570 U	580 U	-	20 U
Fluoranthene	ug/kg	100	290	150	120	110	-	540
Fluorene	ug/kg	63	26	4.8 J	77 U	77 U	-	18
Hexachlorobenzene	ug/kg	2.5 U	2.5 UJ	2.2 U	77 U	77 U	-	5.2 U
Hexachlorobutadiene	ug/kg	6.8 U	6.7 U	5.9 U	570 U	580 U	-	14 U
Hexachlorocyclopentadiene	ug/kg	9.8 U	9.6 U	8.6 U	3800 U	3800 U	-	20 U
Hexachloroethane	ug/kg	11 U	11 U	9.6 U	570 U	580 U	-	22 U
Indeno(1,2,3-cd)pyrene	ug/kg	22	78	37	77 U	77 U	-	230
Isophorone	ug/kg	16 U	15 U	14 U	570 U	580 U	-	32 U
Naphthalene	ug/kg	230	76	8.0	77 U	77 U	-	270
Nitrobenzene	ug/kg	2.7 U	2.6 U	2.3 U	1100 U	1200 U	-	5.5 U
N-Nitrosodi-n-propylamine	ug/kg	7.6 U	7.5 U	6.7 U	570 U	580 U	-	16 U
N-Nitrosodiphenylamine	ug/kg	25 U	25 U	22 U	570 U	580 U	-	52 U
Pentachlorophenol	ug/kg	11 U	11 UJ	9.7 U	1700 U	1700 U	-	23 U
Phenanthrene	ug/kg	360	230	61	77 U	77 U	-	470
Phenol	ug/kg	8.9 U	27 J	7.7 U	570 U	580 U	-	18 U
Pyrene	ug/kg	110	270	170	89	78	-	450
Metals								
Aluminum	mg/kg	5300 J	5800 J	3000 J	3670	3990	-	16000
Antimony	mg/kg	0.28 J	0.37 J	0.18 J	34.4 UJ	34.5 UJ	-	97
Arsenic	mg/kg	12	12	4.0	11.0 J	7.2 J	-	20
Barium	mg/kg	120	130	31	31.8	27.7	-	2300
Beryllium	mg/kg	1.4	0.67	0.18	0.088 J	0.099 J	-	0.59
Cadmium	mg/kg	0.21	5.1	0.17	4.5	3.4	-	30
Calcium	mg/kg	46000	65000	120000	15100	20200	-	65000
Chromium	mg/kg	11	12	6.0	132 J	75.6 J	-	170
Chromium III (trivalent)	mg/kg	-	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-	-
Cobalt	mg/kg	7.1	5.3	3.2	9.6 J	7.0 J	-	19
Copper	mg/kg	27	72	14	163	108	-	8600
Iron	mg/kg	9300	10000	8400	124000	77000	-	58000
Lead	mg/kg	20	180	23	70.4	64.2	-	3500
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-
Magnesium	mg/kg	21000	25000	45000	7050	11000	-	22000

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TP-14**	**TP-15**	**TP-16**	**TT-15**	**TT-15**	**TT-31**	**TT-31**
Sample ID:		**S-38443-103117-BW-004**	**S-38443-103017-BW-002**	**S-38443-103117-BW-008**	**S-38443-092508-KMV-016**	**S-38443-092508-KMV-016-D**	**TT-31**	**S-38443-110717-BW-028**
Sample Date:		**10/31/2017**	**10/30/2017**	**10/31/2017**	**9/25/2008**	**9/25/2008**	**11/7/2017**	**11/7/2017**
Sample Depth:		**8-10 ft BGS**	**10-12 ft BGS**	**4-6 ft BGS**	**8.6 ft BGS**	**8.6 ft BGS**	**8-10 ft BGS**	**14-15 ft BGS**
						Duplicate		
Parameters	**Units**							
Manganese	mg/kg	140 J	270 J	280 J	2200	1690	-	700
Mercury	mg/kg	0.15	0.064 J	0.039 J	0.023 J	0.023 J	-	0.17
Nickel	mg/kg	15	20	7.5	105	57.8	-	150
Potassium	mg/kg	1100	610	410	388 J	375 J	-	1700
Selenium	mg/kg	2.4	4.3	0.70 U	143 U	144 U	-	2.1
Silver	mg/kg	0.044 J	0.062 J	0.024 J	1.1 U	1.2 U	-	6.5
Sodium	mg/kg	170 U	140 U	130 U	574 U	575 U	-	1400
Thallium	mg/kg	0.51	0.40 J	0.098 J	0.11 U	0.12 U	-	0.19 J
Vanadium	mg/kg	22	19	11	11.8 J	13.1 J	-	30
Zinc	mg/kg	37	310	34	430 J	353 J	-	9000
PCBs								
Aroclor-1016 (PCB-1016)	ug/kg	150 U	29 U	25 UJ	38 U	38 U	-	150 U
Aroclor-1221 (PCB-1221)	ug/kg	140 U	27 U	24 UJ	38 U	38 U	-	140 U
Aroclor-1232 (PCB-1232)	ug/kg	98 U	19 U	17 UJ	38 U	38 U	-	99 U
Aroclor-1242 (PCB-1242)	ug/kg	120 U	24 U	21 UJ	38 U	38 U	-	1900
Aroclor-1248 (PCB-1248)	ug/kg	2700	20 U	18 UJ	38 U	38 U	-	110 U
Aroclor-1254 (PCB-1254)	ug/kg	86 U	28 J	15 U	38 U	38 U	-	3800
Aroclor-1260 (PCB-1260)	ug/kg	110 U	22 U	19 U	35 J	38 U	-	110 U
Pesticides								
4,4'-DDD	ug/kg	40 U	19 U	3.6 U	39 U	39 U	-	41 U
4,4'-DDE	ug/kg	15 U	6.9 U	1.3 U	39 U	39 U	-	15 U
4,4'-DDT	ug/kg	17 U	8.1 U	1.5 U	39 U	39 U	-	17 U
Aldrin	ug/kg	29 U	14 U	2.6 U	39 U	39 U	-	30 U
alpha-BHC	ug/kg	19 U	9.2 U	1.7 U	39 U	39 U	-	20 U
alpha-Chlordane	ug/kg	46 U	22 U	4.1 U	39 U	39 U	-	47 U
beta-BHC	ug/kg	47 U	22 U	4.2 U	39 U	39 U	-	48 U
delta-BHC	ug/kg	16 U	7.5 U	1.4 U	39 U	39 U	-	16 U
Dieldrin	ug/kg	11 U	5.2 U	0.97 U	39 U	39 U	-	11 U
Endosulfan I	ug/kg	16 U	7.5 U	1.4 U	39 U	39 U	-	16 U
Endosulfan II	ug/kg	22 U	10 U	1.9 U	39 U	39 U	-	22 U
Endosulfan sulfate	ug/kg	15 U	6.9 U	1.3 U	39 U	39 U	-	15 U
Endrin	ug/kg	17 U	8.1 U	1.5 U	39 U	39 U	-	49 NJ
Endrin aldehyde	ug/kg	22 U	10 U	1.9 U	39 U	39 U	-	40 J
Endrin ketone	ug/kg	13 U	6.3 U	1.2 U	39 U	39 U	-	14 U
gamma-BHC (lindane)	ug/kg	35 U	17 U	3.1 U	39 U	39 U	-	36 U
gamma-Chlordane	ug/kg	18 U	8.7 U	1.6 U	39 U	39 U	-	19 U
Heptachlor	ug/kg	9.4 U	4.5 U	0.84 U	39 U	39 U	-	9.7 U
Heptachlor epoxide	ug/kg	29 U	14 U	2.6 U	39 U	39 U	-	34 NJ
Methoxychlor	ug/kg	15 U	9.5 J	2.1 J	76 U	76 U	-	19 J
Toxaphene	ug/kg	450 U	210 U	40 U	1500 U	1500 U	-	460 U
Herbicides								
2,4,5-T	ug/kg	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/kg	-	-	-	23 U	23 U	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	-	-	-	92 UJ	92 UJ	-	-

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TP-14**	**TP-15**	**TP-16**	**TT-15**	**TT-15**	**TT-31**	**TT-31**
Sample ID:		**S-38443-103117-BW-004**	**S-38443-103017-BW-002**	**S-38443-103117-BW-008**	**S-38443-092508-KMV-016**	**S-38443-092508-KMV-016-D**	**TT-31**	**S-38443-110717-BW-028**
Sample Date:		**10/31/2017**	**10/30/2017**	**10/31/2017**	**9/25/2008**	**9/25/2008**	**11/7/2017**	**11/7/2017**
Sample Depth:		**8-10 ft BGS**	**10-12 ft BGS**	**4-6 ft BGS**	**8.6 ft BGS**	**8.6 ft BGS**	**8-10 ft BGS**	**14-15 ft BGS**
						Duplicate		
Parameters	**Units**							
Dioxin/Furans								
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	7.4 U	-	18	-	-	-	2300
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	71	-	220	-	-	-	2200
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	4.8 J	-	7.0	-	-	-	1800
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	9.9	-	19	-	-	-	700
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	0.55 J	-	0.49 J	-	-	-	240
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	2.9 J	-	1.9 J	-	-	-	960
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	0.41 J	-	0.34 J	-	-	-	51 U
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	1.6 J	-	4.2 J	-	-	-	330
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	0.78 J	-	1.2 J	-	-	-	100
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	0.094 U	-	0.049 U	-	-	-	25 U
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	1.0 J	-	0.88 J	-	-	-	140
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	1.1 J	-	0.064 U	-	-	-	210
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	1.3 J	-	0.65 J	-	-	-	110 J
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	0.82 J	-	1.3 J	-	-	-	330
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	2.6 J	-	1.3 J	-	-	-	440
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	2.1 J	-	1.3	-	-	-	280
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	0.17 J	-	0.27 J	-	-	-	21 J
Total heptachlorodibenzofuran (HpCDF)	pg/g	11 J	-	23 J	-	-	-	2700 J
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	19 J	-	35 J	-	-	-	1400 J
Total hexachlorodibenzofuran (HxCDF)	pg/g	21 J	-	57 J	-	-	-	3200 J
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	9.7 J	-	11 J	-	-	-	1600 J
Total pentachlorodibenzofuran (PeCDF)	pg/g	43 J	-	140 J	-	-	-	4800 J
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	250 J	-	16 J	-	-	-	13000 J
Total tetrachlorodibenzofuran (TCDF)	pg/g	54 J	-	130 J	-	-	-	8300 J
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	5.6 J	-	3.6 J	-	-	-	1400 J
Asbestos								
Asbestos	%	-	-	-	-	-	-	-
Chrysotile asbestos	%	-	-	-	-	-	1 <	-
Geotechnical								
Coarse sand	%	-	-	-	-	-	-	-
Fine sand	%	-	-	-	-	-	-	-
Fines	%	-	-	-	-	-	-	-
Gravel	%	-	-	-	-	-	-	-
Medium sand	%	-	-	-	-	-	-	-
Sand	%	-	-	-	-	-	-	-
Sieve, #4	% passed	-	-	-	-	-	-	-
Sieve, #10	% passed	-	-	-	-	-	-	-
Sieve, #20	% passed	-	-	-	-	-	-	-
Sieve, #40	% passed	-	-	-	-	-	-	-
Sieve, #60	% passed	-	-	-	-	-	-	-
Sieve, #80	% passed	-	-	-	-	-	-	-
Sieve, #100	% passed	-	-	-	-	-	-	-
Sieve, #200	% passed	-	-	-	-	-	-	-
Sieve, 0.375 inch	% passed	-	-	-	-	-	-	-

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TP-14**	**TP-15**	**TP-16**	**TT-15**	**TT-15**	**TT-31**	**TT-31**
Sample ID:		**S-38443-103117-BW-004**	**S-38443-103017-BW-002**	**S-38443-103117-BW-008**	**S-38443-092508-KMV-016**	**S-38443-092508-KMV-016-D**	**TT-31**	**S-38443-110717-BW-028**
Sample Date:		**10/31/2017**	**10/30/2017**	**10/31/2017**	**9/25/2008**	**9/25/2008**	**11/7/2017**	**11/7/2017**
Sample Depth:		**8-10 ft BGS**	**10-12 ft BGS**	**4-6 ft BGS**	**8.6 ft BGS**	**8.6 ft BGS**	**8-10 ft BGS**	**14-15 ft BGS**
						Duplicate		
Parameters	**Units**							
Sieve, 0.75 inch	% passed	-	-	-	-	-	-	-
Sieve, 1 inch	% passed	-	-	-	-	-	-	-
Sieve, 1.5 inch	% passed	-	-	-	-	-	-	-
Sieve, 2 inch	% passed	-	-	-	-	-	-	-
Sieve, 3 inch	% passed	-	-	-	-	-	-	-
General Chemistry								
Cyanide (total)	mg/kg	0.50 U	0.53 U	0.49 U	0.57 U	0.58 U	-	0.57 UJ
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-
Total solids	%	-	-	-	87.2	86.9	-	-

Notes
< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
D - Compounds at secondary dilution factor.
E - Estimated because of the presence of interference (Inorganics).
E - Exceed calibration range of GC/MS instrument (Organics).
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%. The
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-32**	**TT-33**	**TT-33**	**TT-34**	**TT-35**	**TT-36**	**TT-36**	**TT-37**
Sample ID:		**S-38443-110717-BW-030**	**TT-33**	**S-38443-110317-BW-020**	**S-38443-110717-BW-027**	**S-38443-110617-BW-025**	**S-38443-110617-BW-024**	**TT-36**	**TT-37**
Sample Date:		**11/7/2017**	**11/3/2017**	**11/3/2017**	**11/7/2017**	**11/6/2017**	**11/6/2017**	**11/6/2017**	**11/6/2017**
Sample Depth:		**12-14 ft BGS**	**2-4 ft BGS**	**12-14 ft BGS**	**8-10 ft BGS**	**12-14 ft BGS**	**2-4 ft BGS**	**8-10 ft BGS**	**4-6 ft BGS**
Parameters	**Units**								
Volatiles									
1,1,1-Trichloroethane	ug/kg	0.40 U	-	42 U	1.1 J	1.8 J	69 J	-	-
1,1,2,2-Tetrachloroethane	ug/kg	0.45 UJ	-	36 U	0.65 U	0.56 UJ	47 U	-	-
1,1,2-Trichloroethane	ug/kg	0.68 U	-	35 U	0.98 U	R	45 U	-	-
1,1-Dichloroethane	ug/kg	0.57 U	-	390	0.83 U	0.71 U	60 U	-	-
1,1-Dichloroethene	ug/kg	0.94 U	-	55 U	1.4 U	1.2 U	70 U	-	-
1,2,4-Trichlorobenzene	ug/kg	0.42 U	-	61 J	0.60 U	0.52 UJ	83 J	-	-
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	1.2 U	-	73 U	1.7 U	1.5 UJ	93 U	-	-
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	0.61 U	-	35 U	0.88 U	R	45 U	-	-
1,2-Dichlorobenzene	ug/kg	0.38 U	-	27 U	0.55 U	0.47 UJ	250 J	-	-
1,2-Dichloroethane	ug/kg	0.50 U	-	45 U	0.73 U	0.62 U	58 U	-	-
1,2-Dichloroethene (total)	ug/kg	-	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/kg	0.54 U	-	45 U	0.78 U	0.67 U	58 U	-	-
1,3-Dichlorobenzene	ug/kg	0.50 U	-	58 U	0.73 U	0.62 UJ	74 U	-	-
1,4-Dichlorobenzene	ug/kg	0.61 U	-	41 U	0.88 U	0.75 UJ	12000	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	2.2 U	-	91 J	3.2 U	2.7 U	1900	-	-
2-Hexanone	ug/kg	1.0 U	-	130 U	1.5 U	R	170 UJ	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	1.5 U	-	140 J	2.2 U	R	940 J	-	-
Acetone	ug/kg	17 U	-	150 U	17 U	27 U	190 U	-	-
Benzene	ug/kg	0.56 U	-	36 U	0.80 U	0.69 U	47 U	-	-
Bromodichloromethane	ug/kg	0.57 U	-	27 U	0.83 U	0.71 U	35 U	-	-
Bromoform	ug/kg	0.70 U	-	35 U	1.0 U	R	45 U	-	-
Bromomethane (Methyl bromide)	ug/kg	1.0 UJ	-	42 UJ	1.5 U	1.3 U	54 U	-	-
Carbon disulfide	ug/kg	0.37 U	-	27 U	0.53 U	2.6 J	35 U	-	-
Carbon tetrachloride	ug/kg	0.43 U	-	41 U	0.63 U	2.7 J	52 U	-	-
Chlorobenzene	ug/kg	0.57 U	-	45 U	0.83 U	R	170 J	-	-
Chloroethane	ug/kg	0.66 U	-	42 U	0.95 U	0.82 U	54 U	-	-
Chloroform (Trichloromethane)	ug/kg	0.40 U	-	36 U	0.58 U	0.49 U	47 U	-	-
Chloromethane (Methyl chloride)	ug/kg	0.66 U	-	27 U	0.95 U	0.82 U	35 U	-	-
cis-1,2-Dichloroethene	ug/kg	0.49 U	-	53 U	0.70 U	0.60 U	68 U	-	-
cis-1,3-Dichloropropene	ug/kg	0.45 U	-	35 U	0.65 U	0.56 U	45 U	-	-
Cyclohexane	ug/kg	0.37 U	-	45 J	0.53 U	0.45 U	160 J	-	-
Dibromochloromethane	ug/kg	0.52 U	-	52 U	0.75 U	R	66 U	-	-
Dichlorodifluoromethane (CFC-12)	ug/kg	0.61 U	-	33 U	0.88 U	0.75 U	43 U	-	-
Ethylbenzene	ug/kg	0.47 U	-	53 U	0.68 U	R	2200	-	-
Isopropyl benzene	ug/kg	0.35 U	-	52 U	0.50 U	R	430 J	-	-
Methyl acetate	ug/kg	2.0 U	-	340 J	2.9 U	2.5 U	240 J	-	-
Methyl cyclohexane	ug/kg	0.40 U	-	130 J	0.58 U	0.49 U	380 J	-	-
Methyl tert butyl ether (MTBE)	ug/kg	0.47 U	-	39 U	0.68 U	0.58 U	50 U	-	-
Methylene chloride	ug/kg	6.3 U	-	99 U	9.8 U	6.7 U	130 U	-	-
Styrene	ug/kg	0.47 U	-	16 J	0.68 U	R	19 U	-	-
Tetrachloroethene	ug/kg	0.64 U	-	32 U	2.5 J	5.0 J	180 J	-	-
Toluene	ug/kg	0.89 J	-	74 U	0.85 U	R	1600	-	-
trans-1,2-Dichloroethene	ug/kg	0.66 U	-	53 U	0.95 U	0.82 U	68 U	-	-
trans-1,3-Dichloropropene	ug/kg	0.37 U	-	23 U	0.53 U	R	29 U	-	-
Trichloroethene	ug/kg	0.71 U	-	56 U	1.0 U	17 J	72 U	-	-
Trichlorofluoromethane (CFC-11)	ug/kg	0.42 U	-	52 U	0.60 U	0.52 U	79 J	-	-
Trifluorotrichloroethane (CFC-113)	ug/kg	0.85 U	-	35 U	1.2 U	1.1 U	45 U	-	-

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-32**	**TT-33**	**TT-33**	**TT-34**	**TT-35**	**TT-36**	**TT-36**	**TT-37**
Sample ID:		**S-38443-110717-BW-030**	**TT-33**	**S-38443-110317-BW-020**	**S-38443-110717-BW-027**	**S-38443-110617-BW-025**	**S-38443-110617-BW-024**	**TT-36**	**TT-37**
Sample Date:		**11/7/2017**	**11/3/2017**	**11/3/2017**	**11/7/2017**	**11/6/2017**	**11/6/2017**	**11/6/2017**	**11/6/2017**
Sample Depth:		**12-14 ft BGS**	**2-4 ft BGS**	**12-14 ft BGS**	**8-10 ft BGS**	**12-14 ft BGS**	**2-4 ft BGS**	**8-10 ft BGS**	**4-6 ft BGS**
Parameters	**Units**								
Vinyl chloride	ug/kg	0.49 U	-	26 U	0.70 U	0.60 U	33 U	-	-
Xylenes (total)	ug/kg	0.89 J	-	200 J	1.0 U	R	19000	-	-
Semi-Volatiles									
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	58 U	-	110 U	48 U	47 U	290 U	-	-
2,4,5-Trichlorophenol	ug/kg	150 U	-	300 U	130 U	120 U	770 U	-	-
2,4,6-Trichlorophenol	ug/kg	54 U	-	110 U	45 U	44 U	280 U	-	-
2,4-Dichlorophenol	ug/kg	120 U	-	240 U	100 U	98 U	620 U	-	-
2,4-Dimethylphenol	ug/kg	120 U	-	240 U	100 U	98 U	620 U	-	-
2,4-Dinitrophenol	ug/kg	130 U	-	250 U	110 U	100 U	650 U	-	-
2,4-Dinitrotoluene	ug/kg	100 U	-	200 U	86 U	83 U	530 U	-	-
2,6-Dinitrotoluene	ug/kg	130 U	-	250 U	110 U	100 U	650 U	-	-
2-Chloronaphthalene	ug/kg	2.7 U	-	5.3 U	2.3 U	2.2 U	14 U	-	-
2-Chlorophenol	ug/kg	50 U	-	97 U	41 U	40 U	250 U	-	-
2-Methylnaphthalene	ug/kg	930	-	3600	380	140	9300	-	-
2-Methylphenol	ug/kg	67 U	-	130 U	56 U	54 U	340 U	-	-
2-Nitroaniline	ug/kg	55 U	-	110 U	46 U	45 U	280 U	-	-
2-Nitrophenol	ug/kg	50 U	-	99 U	42 U	41 U	260 U	-	-
3&4-Methylphenol	ug/kg	120 U	-	490 J	100 U	98 U	620 U	-	-
3,3'-Dichlorobenzidine	ug/kg	110 U	-	210 U	91 U	88 U	560 U	-	-
3-Nitroaniline	ug/kg	97 U	-	190 U	81 U	78 U	500 U	-	-
4,6-Dinitro-2-methylphenol	ug/kg	56 U	-	110 U	46 U	45 U	280 U	-	-
4-Bromophenyl phenyl ether	ug/kg	79 U	-	150 U	66 U	64 U	400 U	-	-
4-Chloro-3-methylphenol	ug/kg	130 U	-	250 U	110 U	100 U	650 U	-	-
4-Chloroaniline	ug/kg	100 U	-	200 U	86 U	83 U	530 U	-	-
4-Chlorophenyl phenyl ether	ug/kg	79 U	-	150 U	66 U	64 U	400 U	-	-
4-Methylphenol	ug/kg	-	-	-	-	-	-	-	-
4-Nitroaniline	ug/kg	160 U	-	310 U	130 U	130 U	800 U	-	-
4-Nitrophenol	ug/kg	100 U	-	200 U	86 U	83 U	530 U	-	-
Acenaphthene	ug/kg	4.6 U	-	110	43	3.7 U	760	-	-
Acenaphthylene	ug/kg	210	-	4.2 U	40	1.7 U	230	-	-
Acetophenone	ug/kg	290 J	-	110 U	74 J	49 J	3900	-	-
Anthracene	ug/kg	220	-	110	97	26 J	490	-	-
Atrazine	ug/kg	55 U	-	110 U	46 U	45 U	280 U	-	-
Benzaldehyde	ug/kg	200 J	-	140 U	130 J	65 J	370 U	-	-
Benzo(a)anthracene	ug/kg	770	-	130	930	86	430	-	-
Benzo(a)pyrene	ug/kg	810	-	130	950	71	230	-	-
Benzo(b)fluoranthene	ug/kg	1100	-	150	1300	110	350	-	-
Benzo(g,h,i)perylene	ug/kg	930	-	4.2 U	840	72	210	-	-
Benzo(k)fluoranthene	ug/kg	380	-	8.1 U	420	33	110 J	-	-
Biphenyl (1,1-Biphenyl)	ug/kg	100 J	-	290 J	54 J	32 J	1300 J	-	-
bis(2-Chloroethoxy)methane	ug/kg	130 U	-	260 U	110 U	110 U	680 U	-	-
bis(2-Chloroethyl)ether	ug/kg	12 U	-	24 U	10 U	9.8 U	62 U	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	370 J	-	400 U	1300	170 J	5300	-	-
Butyl benzylphthalate (BBP)	ug/kg	160 J	-	120 U	180 J	49 U	1700 J	-	-
Caprolactam	ug/kg	220 U	-	440 U	190 U	180 U	1100 U	-	-
Carbazole	ug/kg	160 U	-	320 U	140 U	130 U	840 U	-	-
Chrysene	ug/kg	870	-	190	950	130	520	-	-

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-32**	**TT-33**	**TT-33**	**TT-34**	**TT-35**	**TT-36**	**TT-36**	**TT-37**
Sample ID:		**S-38443-110717-BW-030**	**TT-33**	**S-38443-110317-BW-020**	**S-38443-110717-BW-027**	**S-38443-110617-BW-025**	**S-38443-110617-BW-024**	**TT-36**	**TT-37**
Sample Date:		**11/7/2017**	**11/3/2017**	**11/3/2017**	**11/7/2017**	**11/6/2017**	**11/6/2017**	**11/6/2017**	**11/6/2017**
Sample Depth:		**12-14 ft BGS**	**2-4 ft BGS**	**12-14 ft BGS**	**8-10 ft BGS**	**12-14 ft BGS**	**2-4 ft BGS**	**8-10 ft BGS**	**4-6 ft BGS**
Parameters	**Units**								
Dibenz(a,h)anthracene	ug/kg	210	-	7.8 U	220	3.2 U	20 U	-	-
Dibenzofuran	ug/kg	340	-	230 J	130 J	55 J	1000 J	-	-
Diethyl phthalate	ug/kg	97 U	-	190 U	95 J	78 U	500 U	-	-
Dimethyl phthalate	ug/kg	100 U	-	200 U	86 U	83 U	530 U	-	-
Di-n-butylphthalate (DBP)	ug/kg	260 J	-	540 J	95 J	73 U	460 U	-	-
Di-n-octyl phthalate (DnOP)	ug/kg	48 U	-	94 U	40 U	39 U	240 U	-	-
Fluoranthene	ug/kg	1400	-	320	1400	160	1500	-	-
Fluorene	ug/kg	88	-	280	20 J	2.6 U	1100	-	-
Hexachlorobenzene	ug/kg	13 U	-	25 U	11 U	10 U	65 U	-	-
Hexachlorobutadiene	ug/kg	34 U	-	67 U	28 U	27 U	170 U	-	-
Hexachlorocyclopentadiene	ug/kg	49 U	-	96 U	41 U	40 U	250 U	-	-
Hexachloroethane	ug/kg	55 U	-	110 U	45 U	44 U	280 U	-	-
Indeno(1,2,3-cd)pyrene	ug/kg	620	-	4.2 U	720	46	11 U	-	-
Isophorone	ug/kg	79 U	-	150 U	66 U	64 U	400 U	-	-
Naphthalene	ug/kg	730	-	3300	290	110	3800	-	-
Nitrobenzene	ug/kg	13 U	-	26 U	11 U	11 U	68 U	-	-
N-Nitrosodi-n-propylamine	ug/kg	38 U	-	75 U	32 U	31 U	190 U	-	-
N-Nitrosodiphenylamine	ug/kg	130 U	-	250 U	110 U	100 U	650 U	-	-
Pentachlorophenol	ug/kg	55 U	-	110 U	46 U	45 U	280 U	-	-
Phenanthrene	ug/kg	1300	-	1000	520	230	3800	-	-
Phenol	ug/kg	44 U	-	87 U	37 U	36 U	1400 J	-	-
Pyrene	ug/kg	1200	-	260	1200	170	1600	-	-
Metals									
Aluminum	mg/kg	2700	-	2100 J	8200	6900	6900	-	-
Antimony	mg/kg	3.5	-	0.40 J	120	6.3	8.2	-	-
Arsenic	mg/kg	6.4	-	8.3	21	27	29	-	-
Barium	mg/kg	150	-	43	230	1300	1600	-	-
Beryllium	mg/kg	0.47	-	0.20	1.4	2.7	0.71	-	-
Cadmium	mg/kg	3.8	-	0.29	22	7.9	54	-	-
Calcium	mg/kg	27000	-	970	45000	20000	10000	-	-
Chromium	mg/kg	34	-	19	57	55	380	-	-
Chromium III (trivalent)	mg/kg	-	-	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-	-	-
Cobalt	mg/kg	4.8	-	2.4	35	17	240	-	-
Copper	mg/kg	310	-	44	2500	480	1300	-	-
Iron	mg/kg	18000	-	20000	78000	30000	210000	-	-
Lead	mg/kg	440	-	23	3500	590	920	-	-
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-	-
Magnesium	mg/kg	9300	-	540	13000	7400	4300	-	-

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-32**	**TT-33**	**TT-33**	**TT-34**	**TT-35**	**TT-36**	**TT-36**	**TT-37**
Sample ID:		**S-38443-110717-BW-030**	**TT-33**	**S-38443-110317-BW-020**	**S-38443-110717-BW-027**	**S-38443-110617-BW-025**	**S-38443-110617-BW-024**	**TT-36**	**TT-37**
Sample Date:		**11/7/2017**	**11/3/2017**	**11/3/2017**	**11/7/2017**	**11/6/2017**	**11/6/2017**	**11/6/2017**	**11/6/2017**
Sample Depth:		**12-14 ft BGS**	**2-4 ft BGS**	**12-14 ft BGS**	**8-10 ft BGS**	**12-14 ft BGS**	**2-4 ft BGS**	**8-10 ft BGS**	**4-6 ft BGS**
Parameters	**Units**								
Manganese	mg/kg	220	-	450	930	450	1600	-	-
Mercury	mg/kg	0.22	-	0.019 U	1.2	0.21	0.035 J	-	-
Nickel	mg/kg	29	-	15	360	73	420	-	-
Potassium	mg/kg	290	-	180 U	700	650	2600	-	-
Selenium	mg/kg	1.2	-	3.4	1.1	14	3.7	-	-
Silver	mg/kg	0.43	-	0.072 J	2.2	3.5	0.71	-	-
Sodium	mg/kg	92 U	-	240	240	280	3000	-	-
Thallium	mg/kg	0.15 J	-	0.11 J	0.24 J	0.93	0.46 J	-	-
Vanadium	mg/kg	10	-	4.5	21	51	36	-	-
Zinc	mg/kg	280	-	26	1700	610	1800	-	-
PCBs									
Aroclor-1016 (PCB-1016)	ug/kg	140 U	-	28 UJ	15000 U	29 U	29 U	-	-
Aroclor-1221 (PCB-1221)	ug/kg	140 U	-	27 U	14000 U	28 U	28 U	-	-
Aroclor-1232 (PCB-1232)	ug/kg	95 U	-	19 U	9900 U	19 U	20 U	-	-
Aroclor-1242 (PCB-1242)	ug/kg	120 J	-	24 U	12000 U	51 J	620	-	-
Aroclor-1248 (PCB-1248)	ug/kg	100 U	-	20 U	11000 U	20 U	21 U	-	-
Aroclor-1254 (PCB-1254)	ug/kg	2600	-	50 J	450000	300	1000	-	-
Aroclor-1260 (PCB-1260)	ug/kg	110 U	-	21 U	11000 U	22 U	22 U	-	-
Pesticides									
4,4'-DDD	ug/kg	78 U	-	40 U	2000 U	40 U	21 U	-	-
4,4'-DDE	ug/kg	29 U	-	14 U	740 U	15 U	7.5 U	-	-
4,4'-DDT	ug/kg	33 U	-	17 U	870 U	17 U	8.7 U	-	-
Aldrin	ug/kg	57 U	-	29 U	1500 U	29 U	15 U	-	-
alpha-BHC	ug/kg	38 U	-	19 U	990 U	20 U	10 U	-	-
alpha-Chlordane	ug/kg	90 U	-	46 U	2400 U	46 U	24 U	-	-
beta-BHC	ug/kg	93 U	-	47 U	2400 U	48 U	24 U	-	-
delta-BHC	ug/kg	31 U	-	16 U	810 U	16 U	8.1 U	-	-
Dieldrin	ug/kg	21 U	-	11 U	560 NJ	11 U	5.6 U	-	-
Endosulfan I	ug/kg	31 U	-	16 U	810 U	16 U	8.1 U	-	-
Endosulfan II	ug/kg	43 U	-	22 U	1100 U	22 U	11 U	-	-
Endosulfan sulfate	ug/kg	29 U	-	14 U	740 U	15 U	7.5 U	-	-
Endrin	ug/kg	46 NJ	-	17 U	1700 U	17 U	8.7 U	-	-
Endrin aldehyde	ug/kg	43 U	-	22 U	2200 U	22 UJ	15 NJ	-	-
Endrin ketone	ug/kg	26 U	-	13 U	680 U	13 U	6.8 U	-	-
gamma-BHC (lindane)	ug/kg	69 U	-	35 U	1800 U	35 U	18 U	-	-
gamma-Chlordane	ug/kg	36 U	-	18 U	930 U	18 U	9.3 U	-	-
Heptachlor	ug/kg	19 U	-	9.4 U	480 U	9.5 U	4.9 U	-	-
Heptachlor epoxide	ug/kg	57 U	-	29 U	1500 U	29 U	15 U	-	-
Methoxychlor	ug/kg	29 U	-	14 U	740 U	15 U	12 J	-	-
Toxaphene	ug/kg	880 U	-	450 U	23000 U	450 U	230 U	-	-
Herbicides									
2,4,5-T	ug/kg	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/kg	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	-	-	-	-	-	-	-	-

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-32**	**TT-33**	**TT-33**	**TT-34**	**TT-35**	**TT-36**	**TT-36**	**TT-37**
Sample ID:		**S-38443-110717-BW-030**	**TT-33**	**S-38443-110317-BW-020**	**S-38443-110717-BW-027**	**S-38443-110617-BW-025**	**S-38443-110617-BW-024**	**TT-36**	**TT-37**
Sample Date:		**11/7/2017**	**11/3/2017**	**11/3/2017**	**11/7/2017**	**11/6/2017**	**11/6/2017**	**11/6/2017**	**11/6/2017**
Sample Depth:		**12-14 ft BGS**	**2-4 ft BGS**	**12-14 ft BGS**	**8-10 ft BGS**	**12-14 ft BGS**	**2-4 ft BGS**	**8-10 ft BGS**	**4-6 ft BGS**
Parameters	**Units**								
Dioxin/Furans									
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	250	-	21	280	200	26 U	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	1400	-	790 J	9400	3200	440	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	170	-	14	540	400	15 U	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	240	-	140 J	1600	480	140	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	23 U	-	0.87 J	64	19	10 U	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	74	-	3.9 J	440	250	6.9 U	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	9.1 U	-	1.3 J	51 U	22	11 U	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	29 U	-	1.5 J	150	74	5.6 U	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	16 J	-	18	110	54	42 J	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	4.3 U	-	0.078 U	12 U	3.6 U	5.1 U	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	20 U	-	8.1	150	65	63	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	12 J	-	0.76 J	210	56	8.6 J	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	2.3 U	-	1.3 J	4.2 U	25	50 J	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	29 U	-	1.7 J	100	91	8.2 U	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	26 J	-	1.6 J	320	130	8.6 J	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	10 J	-	1.3 J	710	80	25 J	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	3.0 U	-	0.27 J	14	6.8	2.0 U	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	280 J	-	34 J	1000 J	580 J	36 J	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	470 J	-	250 J	3600 J	910 J	340 J	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	250 J	-	21 J	1700 J	860 J	51 J	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	170 J	-	130 J	1300 J	650 J	720 J	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	240 J	-	16 J	2800 J	1500 J	68 J	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	5200 J	-	68 J	270000 J	1300 J	670 J	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	280 J	-	26 J	7100 J	2600 J	120 J	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	16 J	-	6.9 J	430 J	400 J	140 J	-	-
Asbestos									
Asbestos	%	-	ND	-	-	ND	-	ND	ND
Chrysotile asbestos	%	1 <	-	-	1 <	-	-	-	-
Geotechnical									
Coarse sand	%	-	-	-	-	-	-	-	-
Fine sand	%	-	-	-	-	-	-	-	-
Fines	%	-	-	-	-	-	-	-	-
Gravel	%	-	-	-	-	-	-	-	-
Medium sand	%	-	-	-	-	-	-	-	-
Sand	%	-	-	-	-	-	-	-	-
Sieve, #4	% passed	-	-	-	-	-	-	-	-
Sieve, #10	% passed	-	-	-	-	-	-	-	-
Sieve, #20	% passed	-	-	-	-	-	-	-	-
Sieve, #40	% passed	-	-	-	-	-	-	-	-
Sieve, #60	% passed	-	-	-	-	-	-	-	-
Sieve, #80	% passed	-	-	-	-	-	-	-	-
Sieve, #100	% passed	-	-	-	-	-	-	-	-
Sieve, #200	% passed	-	-	-	-	-	-	-	-
Sieve, 0.375 inch	% passed	-	-	-	-	-	-	-	-

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-32**	**TT-33**	**TT-33**	**TT-34**	**TT-35**	**TT-36**	**TT-36**	**TT-37**
Sample ID:		**S-38443-110717-BW-030**	**TT-33**	**S-38443-110317-BW-020**	**S-38443-110717-BW-027**	**S-38443-110617-BW-025**	**S-38443-110617-BW-024**	**TT-36**	**TT-37**
Sample Date:		**11/7/2017**	**11/3/2017**	**11/3/2017**	**11/7/2017**	**11/6/2017**	**11/6/2017**	**11/6/2017**	**11/6/2017**
Sample Depth:		**12-14 ft BGS**	**2-4 ft BGS**	**12-14 ft BGS**	**8-10 ft BGS**	**12-14 ft BGS**	**2-4 ft BGS**	**8-10 ft BGS**	**4-6 ft BGS**
Parameters	**Units**								
Sieve, 0.75 inch	% passed	-	-	-	-	-	-	-	-
Sieve, 1 inch	% passed	-	-	-	-	-	-	-	-
Sieve, 1.5 inch	% passed	-	-	-	-	-	-	-	-
Sieve, 2 inch	% passed	-	-	-	-	-	-	-	-
Sieve, 3 inch	% passed	-	-	-	-	-	-	-	-
General Chemistry									
Cyanide (total)	mg/kg	2.2 J	-	0.58 U	0.52 UJ	0.59 UJ	14 J	-	-
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-	-

Notes
< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
D - Compounds at secondary dilution factor.
E - Estimated because of the presence of interference (Inorganics).
E - Exceed calibration range of GC/MS instrument (Organics).
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%. The
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-37**	**TT-38**	**TT-39**
Sample ID:		**S-38443-110617-BW-023**	**TT-38**	**S-38443-110217-BW-018**
Sample Date:		**11/6/2017**	**11/2/2017**	**11/2/2017**
Sample Depth:		**8-10 ft BGS**	**2-4 ft BGS**	**8-10 ft BGS**
Parameters	**Units**			
Volatiles				
1,1,1-Trichloroethane	ug/kg	0.45 U	-	0.34 U
1,1,2,2-Tetrachloroethane	ug/kg	R	-	0.39 U
1,1,2-Trichloroethane	ug/kg	0.77 U	-	0.58 U
1,1-Dichloroethane	ug/kg	0.65 U	-	0.49 U
1,1-Dichloroethene	ug/kg	1.1 U	-	0.81 U
1,2,4-Trichlorobenzene	ug/kg	R	-	0.36 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	R	-	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	0.69 U	-	0.52 U
1,2-Dichlorobenzene	ug/kg	R	-	0.33 U
1,2-Dichloroethane	ug/kg	0.57 U	-	0.43 U
1,2-Dichloroethene (total)	ug/kg	-	-	-
1,2-Dichloropropane	ug/kg	0.61 U	-	0.46 U
1,3-Dichlorobenzene	ug/kg	R	-	0.43 U
1,4-Dichlorobenzene	ug/kg	R	-	0.52 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	2.5 U	-	1.9 U
2-Hexanone	ug/kg	1.1 U	-	0.87 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	1.8 U	-	1.3 U
Acetone	ug/kg	17 U	-	4.6 U
Benzene	ug/kg	0.63 U	-	0.48 U
Bromodichloromethane	ug/kg	0.65 U	-	0.49 U
Bromoform	ug/kg	0.79 U	-	0.60 U
Bromomethane (Methyl bromide)	ug/kg	1.2 U	-	0.88 UJ
Carbon disulfide	ug/kg	0.41 U	-	0.31 U
Carbon tetrachloride	ug/kg	0.49 U	-	0.37 U
Chlorobenzene	ug/kg	0.65 U	-	0.49 U
Chloroethane	ug/kg	0.75 U	-	0.57 U
Chloroform (Trichloromethane)	ug/kg	0.45 U	-	0.34 U
Chloromethane (Methyl chloride)	ug/kg	0.75 U	-	0.57 U
cis-1,2-Dichloroethene	ug/kg	0.55 U	-	0.42 U
cis-1,3-Dichloropropene	ug/kg	0.51 U	-	0.39 U
Cyclohexane	ug/kg	0.41 U	-	0.31 U
Dibromochloromethane	ug/kg	0.59 U	-	0.45 U
Dichlorodifluoromethane (CFC-12)	ug/kg	0.69 U	-	0.52 U
Ethylbenzene	ug/kg	0.53 U	-	0.40 U
Isopropyl benzene	ug/kg	0.39 U	-	0.30 U
Methyl acetate	ug/kg	2.3 U	-	1.8 U
Methyl cyclohexane	ug/kg	1.0 J	-	0.34 U
Methyl tert butyl ether (MTBE)	ug/kg	0.53 U	-	0.40 U
Methylene chloride	ug/kg	5.1 U	-	0.36 U
Styrene	ug/kg	0.53 U	-	0.40 U
Tetrachloroethene	ug/kg	0.96 J	-	0.55 U
Toluene	ug/kg	0.73 J	-	0.51 U
trans-1,2-Dichloroethene	ug/kg	0.75 U	-	0.57 U
trans-1,3-Dichloropropene	ug/kg	0.41 U	-	0.31 U
Trichloroethene	ug/kg	0.81 U	-	0.61 U
Trichlorofluoromethane (CFC-11)	ug/kg	0.47 U	-	0.36 U
Trifluorotrichloroethane (CFC-113)	ug/kg	0.97 U	-	0.73 U

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-37**	**TT-38**	**TT-39**
Sample ID:		**S-38443-110617-BW-023**	**TT-38**	**S-38443-110217-BW-018**
Sample Date:		**11/6/2017**	**11/2/2017**	**11/2/2017**
Sample Depth:		**8-10 ft BGS**	**2-4 ft BGS**	**8-10 ft BGS**
Parameters	**Units**			
Vinyl chloride	ug/kg	0.55 U	-	0.42 U
Xylenes (total)	ug/kg	0.79 U	-	0.60 U
Semi-Volatiles				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	28 U	-	11 U
2,4,5-Trichlorophenol	ug/kg	74 U	-	29 U
2,4,6-Trichlorophenol	ug/kg	26 U	-	10 U
2,4-Dichlorophenol	ug/kg	59 U	-	23 U
2,4-Dimethylphenol	ug/kg	100 J	-	23 U
2,4-Dinitrophenol	ug/kg	62 U	-	25 U
2,4-Dinitrotoluene	ug/kg	50 U	-	20 U
2,6-Dinitrotoluene	ug/kg	62 U	-	25 U
2-Chloronaphthalene	ug/kg	1.3 U	-	0.53 U
2-Chlorophenol	ug/kg	24 U	-	9.6 U
2-Methylnaphthalene	ug/kg	2200	-	5.3 J
2-Methylphenol	ug/kg	42 J	-	13 U
2-Nitroaniline	ug/kg	27 U	-	11 U
2-Nitrophenol	ug/kg	24 U	-	9.7 U
3&4-Methylphenol	ug/kg	59 U	-	23 U
3,3'-Dichlorobenzidine	ug/kg	53 U	-	21 U
3-Nitroaniline	ug/kg	47 U	-	19 U
4,6-Dinitro-2-methylphenol	ug/kg	27 U	-	11 U
4-Bromophenyl phenyl ether	ug/kg	38 U	-	15 U
4-Chloro-3-methylphenol	ug/kg	62 U	-	25 U
4-Chloroaniline	ug/kg	50 U	-	20 U
4-Chlorophenyl phenyl ether	ug/kg	38 U	-	15 U
4-Methylphenol	ug/kg	-	-	-
4-Nitroaniline	ug/kg	77 U	-	30 U
4-Nitrophenol	ug/kg	50 U	-	20 U
Acenaphthene	ug/kg	84	-	23
Acenaphthylene	ug/kg	43	-	13
Acetophenone	ug/kg	27 U	-	11 U
Anthracene	ug/kg	110	-	91
Atrazine	ug/kg	27 U	-	11 U
Benzaldehyde	ug/kg	190 J	-	14 U
Benzo(a)anthracene	ug/kg	250	-	270
Benzo(a)pyrene	ug/kg	180	-	210
Benzo(b)fluoranthene	ug/kg	310	-	290
Benzo(g,h,i)perylene	ug/kg	280	-	150
Benzo(k)fluoranthene	ug/kg	55	-	100
Biphenyl (1,1-Biphenyl)	ug/kg	330	-	4.1 U
bis(2-Chloroethoxy)methane	ug/kg	65 U	-	26 U
bis(2-Chloroethyl)ether	ug/kg	5.9 U	-	2.3 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	56 U	-	58 U
Butyl benzylphthalate (BBP)	ug/kg	29 U	-	12 U
Caprolactam	ug/kg	110 U	-	43 U
Carbazole	ug/kg	79 U	-	32 U
Chrysene	ug/kg	330	-	270

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-37**	**TT-38**	**TT-39**
Sample ID:		**S-38443-110617-BW-023**	**TT-38**	**S-38443-110217-BW-018**
Sample Date:		**11/6/2017**	**11/2/2017**	**11/2/2017**
Sample Depth:		**8-10 ft BGS**	**2-4 ft BGS**	**8-10 ft BGS**
Parameters	**Units**			
Dibenz(a,h)anthracene	ug/kg	1.9 U	-	38
Dibenzofuran	ug/kg	590	-	16 J
Diethyl phthalate	ug/kg	47 U	-	19 U
Dimethyl phthalate	ug/kg	50 U	-	20 U
Di-n-butylphthalate (DBP)	ug/kg	44 U	-	18 U
Di-n-octyl phthalate (DnOP)	ug/kg	23 U	-	9.3 U
Fluoranthene	ug/kg	390	-	700
Fluorene	ug/kg	100	-	31
Hexachlorobenzene	ug/kg	6.2 U	-	2.5 U
Hexachlorobutadiene	ug/kg	16 U	-	6.6 U
Hexachlorocyclopentadiene	ug/kg	24 U	-	9.5 U
Hexachloroethane	ug/kg	26 U	-	11 U
Indeno(1,2,3-cd)pyrene	ug/kg	97	-	130
Isophorone	ug/kg	38 U	-	15 U
Naphthalene	ug/kg	1500	-	6.4 J
Nitrobenzene	ug/kg	6.5 U	-	2.6 U
N-Nitrosodi-n-propylamine	ug/kg	19 U	-	7.4 U
N-Nitrosodiphenylamine	ug/kg	62 U	-	25 U
Pentachlorophenol	ug/kg	27 U	-	11 U
Phenanthrene	ug/kg	1500	-	400
Phenol	ug/kg	21 U	-	8.6 U
Pyrene	ug/kg	370	-	560
Metals				
Aluminum	mg/kg	6400	-	10000 J
Antimony	mg/kg	0.78	-	0.18 UJ
Arsenic	mg/kg	29	-	7.5
Barium	mg/kg	230	-	130
Beryllium	mg/kg	2.1	-	0.73
Cadmium	mg/kg	3.4	-	0.29
Calcium	mg/kg	8200	-	49000
Chromium	mg/kg	8.6	-	14
Chromium III (trivalent)	mg/kg	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-
Cobalt	mg/kg	8.3	-	6.7
Copper	mg/kg	180	-	20
Iron	mg/kg	21000	-	17000
Lead	mg/kg	79	-	47
Lead - coarse fraction	mg/kg	-	-	-
Lead - fine fraction	mg/kg	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-
Magnesium	mg/kg	3100	-	21000

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-37**	**TT-38**	**TT-39**
Sample ID:		**S-38443-110617-BW-023**	**TT-38**	**S-38443-110217-BW-018**
Sample Date:		**11/6/2017**	**11/2/2017**	**11/2/2017**
Sample Depth:		**8-10 ft BGS**	**2-4 ft BGS**	**8-10 ft BGS**
Parameters	**Units**			
Manganese	mg/kg	120	-	450
Mercury	mg/kg	0.025 U	-	0.13
Nickel	mg/kg	27	-	16
Potassium	mg/kg	960	-	1100
Selenium	mg/kg	10	-	0.73 J
Silver	mg/kg	0.067 U	-	0.075 J
Sodium	mg/kg	270	-	91 U
Thallium	mg/kg	0.75	-	0.23 J
Vanadium	mg/kg	23	-	23
Zinc	mg/kg	44	-	150
PCBs				
Aroclor-1016 (PCB-1016)	ug/kg	28 U	-	27 UJ
Aroclor-1221 (PCB-1221)	ug/kg	27 U	-	26 U
Aroclor-1232 (PCB-1232)	ug/kg	19 U	-	18 U
Aroclor-1242 (PCB-1242)	ug/kg	24 U	-	23 U
Aroclor-1248 (PCB-1248)	ug/kg	20 U	-	19 U
Aroclor-1254 (PCB-1254)	ug/kg	19 J	-	16 U
Aroclor-1260 (PCB-1260)	ug/kg	21 U	-	21 U
Pesticides				
4,4'-DDD	ug/kg	79 U	-	20 U
4,4'-DDE	ug/kg	29 U	-	7.3 U
4,4'-DDT	ug/kg	33 U	-	8.5 U
Aldrin	ug/kg	57 U	-	15 U
alpha-BHC	ug/kg	38 U	-	9.7 U
alpha-Chlordane	ug/kg	91 U	-	23 U
beta-BHC	ug/kg	93 U	-	24 U
delta-BHC	ug/kg	31 U	-	7.9 U
Dieldrin	ug/kg	21 U	-	5.5 U
Endosulfan I	ug/kg	31 U	-	7.9 U
Endosulfan II	ug/kg	43 U	-	11 U
Endosulfan sulfate	ug/kg	29 U	-	7.3 U
Endrin	ug/kg	33 U	-	8.5 U
Endrin aldehyde	ug/kg	43 U	-	11 U
Endrin ketone	ug/kg	26 U	-	6.7 U
gamma-BHC (lindane)	ug/kg	69 U	-	18 U
gamma-Chlordane	ug/kg	36 U	-	9.1 U
Heptachlor	ug/kg	19 U	-	4.7 U
Heptachlor epoxide	ug/kg	57 U	-	15 U
Methoxychlor	ug/kg	29 U	-	7.3 U
Toxaphene	ug/kg	880 U	-	220 U
Herbicides				
2,4,5-T	ug/kg	-	-	-
2,4,5-TP (Silvex)	ug/kg	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	-	-	-

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-37**	**TT-38**	**TT-39**
Sample ID:		**S-38443-110617-BW-023**	**TT-38**	**S-38443-110217-BW-018**
Sample Date:		**11/6/2017**	**11/2/2017**	**11/2/2017**
Sample Depth:		**8-10 ft BGS**	**2-4 ft BGS**	**8-10 ft BGS**
Parameters	**Units**			
Dioxin/Furans				
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	13	-	2.5 U
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	92	-	28
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	7.8 U	-	4.7 J
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	17	-	4.8 J
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	1.2 U	-	0.61 J
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	1.7 U	-	4.2 J
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	0.20 U	-	0.41 J
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	1.2 U	-	1.9 J
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	1.1 J	-	1.5 J
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	0.17 U	-	0.21 J
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	1.2 U	-	1.8 J
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	0.39 J	-	0.80 J
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	0.71 J	-	1.2 J
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	1.0 U	-	2.1 J
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	0.69 J	-	2.2 J
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	1.3 J	-	0.61 J
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	0.33 U	-	0.23 J
Total heptachlorodibenzofuran (HpCDF)	pg/g	13 J	-	8.1 J
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	29 J	-	9.5 J
Total hexachlorodibenzofuran (HxCDF)	pg/g	12 J	-	19 J
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	9.1 J	-	14 J
Total pentachlorodibenzofuran (PeCDF)	pg/g	16 J	-	24 J
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	37 J	-	21 J
Total tetrachlorodibenzofuran (TCDF)	pg/g	19 J	-	22 J
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	3.1 J	-	5.8 J
Asbestos				
Asbestos	%	-	ND	-
Chrysotile asbestos	%	-	-	-
Geotechnical				
Coarse sand	%	-	-	-
Fine sand	%	-	-	-
Fines	%	-	-	-
Gravel	%	-	-	-
Medium sand	%	-	-	-
Sand	%	-	-	-
Sieve, #4	% passed	-	-	-
Sieve, #10	% passed	-	-	-
Sieve, #20	% passed	-	-	-
Sieve, #40	% passed	-	-	-
Sieve, #60	% passed	-	-	-
Sieve, #80	% passed	-	-	-
Sieve, #100	% passed	-	-	-
Sieve, #200	% passed	-	-	-
Sieve, 0.375 inch	% passed	-	-	-

Table 16

Summary of Analytical Results
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-37**	**TT-38**	**TT-39**
Sample ID:		**S-38443-110617-BW-023**	**TT-38**	**S-38443-110217-BW-018**
Sample Date:		**11/6/2017**	**11/2/2017**	**11/2/2017**
Sample Depth:		**8-10 ft BGS**	**2-4 ft BGS**	**8-10 ft BGS**
Parameters	**Units**			
Sieve, 0.75 inch	% passed	-	-	-
Sieve, 1 inch	% passed	-	-	-
Sieve, 1.5 inch	% passed	-	-	-
Sieve, 2 inch	% passed	-	-	-
Sieve, 3 inch	% passed	-	-	-
General Chemistry				
Cyanide (total)	mg/kg	0.53 UJ	-	0.54 U
Fraction organic carbon (FOC)	%	-	-	-
Total solids	%	-	-	-

Notes
< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
D - Compounds at secondary dilution factor.
E - Estimated because of the presence of interference (Inorganics).
E - Exceed calibration range of GC/MS instrument (Organics).
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%. The
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Appendix D
Summary of Detections – OU1 Soil/ Fill Samples

Table 1

Summary of Detections
Soil/Fill Samples - EU1
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:							**BH102-17**	**BH103-17**	**BH104-17**	**BH158-17**
Sample ID:							**S-38443-120717-JC-004**	**S-38443-120717-JC-002**	**S-38443-120717-JC-003**	**S-38443-120617-JC-001**
Sample Date:							**12/7/2017**	**12/7/2017**	**12/7/2017**	**12/6/2017**
Sample Depth:							**4.5-6.5 ft BGS**	**3-5 ft BGS**	**3-5 ft BGS**	**3-5 ft BGS**
Parameters	**Units**	**Samples**	**Detects**	**Min Detect**	**Max Detect**	**Average (Detects)**				
Volatiles										
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	13	4	2.5	4.7	3.525	**2.9 J**	R	**2.5 J**	-
Acetone	ug/kg	13	1	13	13	13.000	14 U	R	11 U	-
Semi-Volatiles										
2-Methylnaphthalene	ug/kg	14	12	11	85	39.333	**26**	**38**	**11**	-
Acenaphthene	ug/kg	14	11	12	200	81.000	**71**	**120**	**14**	-
Acenaphthylene	ug/kg	14	14	9.8	320	82.414	**120**	**9.8**	**17**	-
Acetophenone	ug/kg	14	1	10	10	10.000	11 U	**10 J**	11 U	-
Anthracene	ug/kg	14	14	25	570	194.071	**130**	**140**	**53**	-
Benzaldehyde	ug/kg	14	1	16	16	16.000	14 U	13 U	14 U	-
Benzo(a)anthracene	ug/kg	14	14	210	3400	925.714	**630**	**450**	**210**	-
Benzo(a)pyrene	ug/kg	14	14	190	3100	879.286	**570**	**360**	**190**	-
Benzo(b)fluoranthene	ug/kg	14	14	270	3900	1220.000	**980**	**540**	**270**	-
Benzo(g,h,i)perylene	ug/kg	14	14	71	2400	655.071	**170**	**120**	**71**	-
Benzo(k)fluoranthene	ug/kg	14	14	110	1500	500.714	**360**	**280**	**110**	-
Biphenyl (1,1-Biphenyl)	ug/kg	14	4	8.1	13	10.525	**8.1 J**	**13 J**	4.2 U	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	14	6	78	330	172.167	**96**	**110**	37 U	-
Caprolactam	ug/kg	14	1	320	320	320.000	43 U	41 U	44 U	-
Carbazole	ug/kg	14	11	26	330	107.091	**43 J**	**65**	32 U	-
Chrysene	ug/kg	14	14	210	3200	961.429	**610**	**450**	**220**	-
Dibenz(a,h)anthracene	ug/kg	14	11	29	570	163.818	**61**	**41**	**29**	-
Dibenzofuran	ug/kg	14	10	14	100	48.600	**50 J**	**67**	**14 J**	-
Fluoranthene	ug/kg	14	14	270	4800	1802.857	**1300**	**1000**	**410**	-
Fluorene	ug/kg	14	12	13	250	79.750	**95**	**100**	**19**	-
Indeno(1,2,3-cd)pyrene	ug/kg	14	14	66	1900	514.000	**180**	**110**	**66**	-
Naphthalene	ug/kg	14	12	12	190	49.500	**32**	**190**	**12**	-
Phenanthrene	ug/kg	14	14	67	2000	749.071	**460 J**	**580**	**170**	-
Phenol	ug/kg	14	1	13	13	13.000	8.6 U	8.2 U	8.7 U	-
Pyrene	ug/kg	14	14	270	5200	1693.571	**1200**	**930**	**430**	-
Metals										
Aluminum	mg/kg	14	14	3000	11000	6295.714	**7200**	**6300**	**11000**	-
Antimony	mg/kg	14	12	0.14	2.4	0.480	**0.34 J**	**0.35 J**	**2.4 J**	-
Arsenic	mg/kg	14	14	3.6	29	9.764	**7.7**	**8.0**	**12**	-
Barium	mg/kg	14	14	42	170	76.607	**94**	**79**	**79**	-
Beryllium	mg/kg	14	14	0.22	2.5	0.639	**0.49**	**0.41**	**0.51**	-
Cadmium	mg/kg	14	14	0.21	2.2	0.501	**0.31**	**0.37**	**0.21 J**	-
Calcium	mg/kg	14	14	45000	190000	93442.857	**52000**	**83000**	**57000**	-
Chromium	mg/kg	15	15	6.8	17	11.427	**12**	**11**	**17**	**13**
Chromium III (trivalent)	mg/kg	11	11	6.8	16	10.800	**12**	**11**	**16**	**13**
Chromium VI (hexavalent)	mg/kg	11	4	0.31	0.8	0.503	0.56 U	**0.80 J**	**0.34 J**	0.26 U
Cobalt	mg/kg	14	14	2.7	9.6	5.579	**7.2**	**5.2**	**6.0**	-
Copper	mg/kg	14	14	12.6	44	26.014	**22 J**	**42 J**	**26 J**	-
Iron	mg/kg	14	14	7000	22000	12864.286	**14000**	**13000**	**22000**	-

Table 1

Summary of Detections
Soil/Fill Samples - EU1
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:							**BH102-17**	**BH103-17**	**BH104-17**	**BH158-17**
Sample ID:							**S-38443-120717-JC-004**	**S-38443-120717-JC-002**	**S-38443-120717-JC-003**	**S-38443-120617-JC-001**
Sample Date:							**12/7/2017**	**12/7/2017**	**12/7/2017**	**12/6/2017**
Sample Depth:							**4.5-6.5 ft BGS**	**3-5 ft BGS**	**3-5 ft BGS**	**3-5 ft BGS**
Parameters	**Units**	**Samples**	**Detects**	**Min Detect**	**Max Detect**	**Average (Detects)**				
Lead	mg/kg	14	14	18.4	61	35.014	**39**	**45**	**61**	-
Lead - coarse fraction	mg/kg	2	2	24	62	43.000	-	-	-	-
Lead - fine fraction	mg/kg	2	2	48	100	74.000	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	2	2	26	70	48.000	-	-	-	-
Magnesium	mg/kg	14	14	18000	47000	29085.714	**18000**	**30000**	**23000**	-
Manganese	mg/kg	14	14	240	624	360.643	**310**	**390**	**240**	-
Mercury	mg/kg	14	14	0.027	0.27	0.095	**0.027 J**	**0.077 J**	**0.039 J**	-
Nickel	mg/kg	14	14	7.7	25	14.164	**15**	**12**	**14**	-
Potassium	mg/kg	14	14	450	1200	810.857	**720**	**1000**	**820**	-
Selenium	mg/kg	14	12	0.6	3.7	1.239	**0.92 J**	**0.70 J**	**0.88 J**	-
Silver	mg/kg	14	12	0.024	0.089	0.052	**0.065 J**	**0.077 J**	**0.041 J**	-
Sodium	mg/kg	14	9	72	290	131.222	**290**	140 U	140 U	-
Thallium	mg/kg	14	13	0.12	0.82	0.271	**0.22 J**	**0.17 J**	**0.31 J**	-
Vanadium	mg/kg	14	14	12	37	19.757	**19**	**18**	**31**	-
Zinc	mg/kg	14	14	42	98.7	64.864	**75**	**95**	**68**	-
PCBs										
Aroclor-1254 (PCB-1254)	ug/kg	14	5	33	16000	3275.200	**33 J**	**16000**	28 U	-
Aroclor-1260 (PCB-1260)	ug/kg	14	1	24	24	24.000	26 U	510 U	27 U	-
Pesticides										
4,4'-DDE	ug/kg	14	1	12	12	12.000	13 U	67 U	7.0 U	-
4,4'-DDT	ug/kg	14	1	1.2	1.2	1.200	16 U	79 U	8.2 U	-
alpha-Chlordane	ug/kg	14	4	3.1	32	16.000	42 U	210 U	22 U	-
Endosulfan I	ug/kg	14	1	2.1	2.1	2.100	14 U	73 U	7.6 U	-
Endrin	ug/kg	14	1	130	130	130.000	16 U	**130 NJ**	8.2 U	-
Endrin aldehyde	ug/kg	14	1	2.1	2.1	2.100	20 UJ	100 U	11 UJ	-
gamma-Chlordane	ug/kg	14	5	1.9	27	14.820	17 U	84 U	8.8 U	-
Heptachlor epoxide	ug/kg	14	2	3.8	130	66.900	27 U	**130 NJ**	14 U	-
General Chemistry										
Cyanide (total)	mg/kg	14	1	0.13	0.13	0.130	0.37 U	0.25 U	0.19 U	-
Total solids	%	2	2	83.3	85.4	84.350	-	-	-	-

Notes
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 1

Summary of Detections
Soil/Fill Samples - EU1
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-37**	**SS-38**	**SS-39**	**SS-39**	**SS-40**	**SS-41**	**SS-42**
Sample ID:		**SS-38443-112018-JC-037**	**SS-38443-112018-JC-038**	**S-38443-110117-BW-013**	**S-38443-110117-BW-014**	**SS-38443-112018-JC-040**	**SS-38443-112018-JC-041**	**SS-38443-112718-AS-042**
Sample Date:		**11/20/2018**	**11/20/2018**	**11/1/2017**	**11/1/2017**	**11/20/2018**	**11/20/2018**	**11/27/2018**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-0.67 ft BGS**
					Duplicate			
Parameters	**Units**							
Volatiles								
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	3.2 U	3.3 U	2.1 U	1.7 U	4.0 U	-	2.9 U
Acetone	ug/kg	19 U	20 U	5.1 U	4.1 U	24 U	-	17 U
Semi-Volatiles								
2-Methylnaphthalene	ug/kg	**25 J**	**12 J**	**73**	**58**	**67 J**	-	**36**
Acenaphthene	ug/kg	14 U	3.3 U	**54**	**52**	**150**	-	**12 J**
Acenaphthylene	ug/kg	**320**	**42**	**35**	**39**	**67 J**	-	**12 J**
Acetophenone	ug/kg	55 U	13 U	13 U	23 U	50 U	-	13 U
Anthracene	ug/kg	**540**	**25**	**120**	**120**	**380**	-	**40**
Benzaldehyde	ug/kg	110 U	26 U	**16 J**	30 U	110 U	-	27 U
Benzo(a)anthracene	ug/kg	**3400**	**210**	**510**	**590**	**2500**	-	**210**
Benzo(a)pyrene	ug/kg	**3100**	**190**	**460**	**510**	**2400**	-	**240**
Benzo(b)fluoranthene	ug/kg	**3900**	**280**	**630**	**830**	**3400**	-	**400**
Benzo(g,h,i)perylene	ug/kg	**2400**	**160**	**280**	**280**	**2100**	-	**190**
Benzo(k)fluoranthene	ug/kg	**1500**	**120**	**280**	**300**	**1400**	-	**140**
Biphenyl (1,1-Biphenyl)	ug/kg	85 U	19 U	**11 J**	**10 J**	78 U	-	20 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	**320 J**	**78 J**	67 U	125 U	**330**	-	59 U
Caprolactam	ug/kg	370 U	85 U	51 U	**320 J**	340 U	-	87 U
Carbazole	ug/kg	**130 J**	22 U	**80**	**70 J**	**330**	-	**26 J**
Chrysene	ug/kg	**3200**	**210**	**560**	**660**	**2800**	-	**260**
Dibenz(a,h)anthracene	ug/kg	**570**	**30**	**59**	**74**	**530**	-	8.0 U
Dibenzofuran	ug/kg	65 U	15 U	**45 J**	**40 J**	**67 J**	-	**18 J**
Fluoranthene	ug/kg	**4800**	**270**	**1200**	**1200**	**4700**	-	**490**
Fluorene	ug/kg	**62 J**	3.1 U	**51**	**44**	**120**	-	**13 J**
Indeno(1,2,3-cd)pyrene	ug/kg	**1900**	**130**	**230**	**250**	**1700**	-	**170**
Naphthalene	ug/kg	**63 J**	**12 J**	**56**	**42**	**49 J**	-	**24**
Phenanthrene	ug/kg	**1500**	**67**	**620**	**580**	**2000**	-	**220**
Phenol	ug/kg	40 U	9.1 U	**13 J**	18 U	37 U	-	9.3 U
Pyrene	ug/kg	**5200**	**270**	**940**	**1100**	**4800**	-	**420**
Metals								
Aluminum	mg/kg	**7500**	**5000**	**8400 J**	**7700 J**	**4000**	-	**7500**
Antimony	mg/kg	**0.21 J**	**0.14 J**	**0.84 J**	**0.60 J**	**0.15 J**	-	**0.19 J**
Arsenic	mg/kg	**7.8**	**5.6**	**29**	**21**	**5.4**	-	**9.3**
Barium	mg/kg	**82**	**42**	**170 J**	**140 J**	**49**	-	**66 J**
Beryllium	mg/kg	**0.43**	**0.26**	**2.5**	**2.2**	**0.27**	-	**0.45 J**
Cadmium	mg/kg	**2.2**	**0.23**	**0.39**	**0.35**	**0.26**	-	**0.23**
Calcium	mg/kg	**45000**	**150000**	**52000**	**65000**	**99000**	-	**65000**
Chromium	mg/kg	**13**	**8.1**	**16**	**15**	**8.6**	-	**14**
Chromium III (trivalent)	mg/kg	**13**	**8.1**	-	-	**8.3**	-	**14**
Chromium VI (hexavalent)	mg/kg	1.5 U	0.27 U	-	-	**0.31 J**	-	0.28 U
Cobalt	mg/kg	**6.8**	**4.5**	**9.6**	**8.0**	**3.9**	-	**5.9**
Copper	mg/kg	**37**	**17**	**44**	**40**	**19**	-	**30 J**
Iron	mg/kg	**16000**	**13000**	**13000**	**12000**	**9200**	-	**15000**

Table 1

Summary of Detections
Soil/Fill Samples - EU1
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-37**	**SS-38**	**SS-39**	**SS-39**	**SS-40**	**SS-41**	**SS-42**
Sample ID:		**SS-38443-112018-JC-037**	**SS-38443-112018-JC-038**	**S-38443-110117-BW-013**	**S-38443-110117-BW-014**	**SS-38443-112018-JC-040**	**SS-38443-112018-JC-041**	**SS-38443-112718-AS-042**
Sample Date:		**11/20/2018**	**11/20/2018**	**11/1/2017**	**11/1/2017**	**11/20/2018**	**11/20/2018**	**11/27/2018**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-0.67 ft BGS**
					Duplicate			
Parameters	**Units**							
Lead	mg/kg	**29**	**21**	**51 J**	**46 J**	**26**	-	**25 J**
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	**24**
Lead - fine fraction	mg/kg	-	-	-	-	-	-	**48**
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	**26**
Magnesium	mg/kg	**18000**	**47000**	**19000**	**25000**	**30000**	-	**30000**
Manganese	mg/kg	**330**	**450**	**280**	**270**	**320**	-	**530 J**
Mercury	mg/kg	**0.097 J**	**0.042 J**	**0.27**	**0.23**	**0.094 J**	-	**0.050 J**
Nickel	mg/kg	**14**	**12**	**25 J**	**22 J**	**11**	-	**15 J**
Potassium	mg/kg	**850**	**710**	**1200**	**1100**	**590**	-	**740 J**
Selenium	mg/kg	**1.1 J**	**0.60 J**	**3.7**	**3.3**	**0.78 J**	-	**0.86 J**
Silver	mg/kg	**0.053 J**	**0.024 J**	**0.089 J**	**0.083 J**	**0.061 J**	-	**0.048 J**
Sodium	mg/kg	**72 J**	**120 J**	180 U	160 U	**98 J**	-	**90 J**
Thallium	mg/kg	**0.21 J**	**0.20**	**0.82**	**0.62**	**0.14 J**	-	**0.20**
Vanadium	mg/kg	**20**	**16**	**37**	**30**	**13**	-	**22**
Zinc	mg/kg	**68**	**42**	**77**	**72**	**61**	-	**58 J**
PCBs								
Aroclor-1254 (PCB-1254)	ug/kg	29 U	26 U	**33 J**	18 U	25 U	-	**180**
Aroclor-1260 (PCB-1260)	ug/kg	28 U	25 U	25 U	**24 J**	24 U	-	25 U
Pesticides								
4,4'-DDE	ug/kg	1.9 U	1.6 U	17 U	7.6 U	1.8 U	-	1.8 U
4,4'-DDT	ug/kg	1.4 U	1.2 U	20 U	8.9 U	1.3 U	-	1.3 U
alpha-Chlordane	ug/kg	**8.9 J**	1.6 U	53 U	24 U	**20**	-	1.8 U
Endosulfan I	ug/kg	1.5 U	1.3 U	18 U	8.3 U	**2.1 NJ**	-	1.4 U
Endrin	ug/kg	2.4 U	2.1 U	20 U	8.9 U	2.2 U	-	2.2 U
Endrin aldehyde	ug/kg	1.6 U	1.4 U	25 U	11 U	**2.1 J**	-	1.5 U
gamma-Chlordane	ug/kg	**9.2 J**	1.3 U	21 U	9.6 U	**13**	-	1.5 U
Heptachlor epoxide	ug/kg	**3.8 J**	1.6 U	34 U	15 U	1.7 U	-	1.7 U
General Chemistry								
Cyanide (total)	mg/kg	0.24 U	0.21 U	0.64 U	0.56 U	0.23 U	-	0.21 U
Total solids	%	-	-	-	-	-	-	-

Notes
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 1

Summary of Detections
Soil/Fill Samples - EU1
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-43**	**SS-44**	**SS-45**	**SS-122**	**SS-124**	**SS-153-AS**	**SS-154-AS**
Sample ID:		**SS-38443-112718-AS-043**	**SS-38443-112718-AS-044**	**SS-38443-112718-AS-045**	**SS-38443-112018-JC-122**	**SS-38443-112718-AS-124**	**SS-38443-112018-JC-153**	**SS-38443-112018-JC-154**
Sample Date:		**11/27/2018**	**11/27/2018**	**11/27/2018**	**11/20/2018**	**11/27/2018**	**11/20/2018**	**11/20/2018**
Sample Depth:		**0.17-1 ft BGS**	**0.08-1 ft BGS**	**0.17-1.5 ft BGS**	**0-2 ft BGS**	**0.17-1.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**
Parameters	**Units**							
Volatiles								
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	4.4 U	4.0 U	5.0 U	-	-	-	-
Acetone	ug/kg	26 U	24 U	30 U	-	-	-	-
Semi-Volatiles								
2-Methylnaphthalene	ug/kg	**12 J**	**85**	**29 J**	-	-	-	-
Acenaphthene	ug/kg	**43**	13 U	**130**	-	-	-	-
Acenaphthylene	ug/kg	**200**	**120**	**44**	-	-	-	-
Acetophenone	ug/kg	13 U	48 U	26 U	-	-	-	-
Anthracene	ug/kg	**140**	**99**	**170 J**	-	-	-	-
Benzaldehyde	ug/kg	27 U	100 U	54 U	-	-	-	-
Benzo(a)anthracene	ug/kg	**630**	**320**	**600 J**	-	-	-	-
Benzo(a)pyrene	ug/kg	**890**	**450**	**580 J**	-	-	-	-
Benzo(b)fluoranthene	ug/kg	**1200**	**630**	**920 J**	-	-	-	-
Benzo(g,h,i)perylene	ug/kg	**650**	**830**	**390**	-	-	-	-
Benzo(k)fluoranthene	ug/kg	**460**	**280**	**420 J**	-	-	-	-
Biphenyl (1,1-Biphenyl)	ug/kg	20 U	75 U	40 U	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	60 U	220 U	120 U	-	-	-	-
Caprolactam	ug/kg	88 U	330 U	170 U	-	-	-	-
Carbazole	ug/kg	**84**	84 U	**130**	-	-	-	-
Chrysene	ug/kg	**640**	**360**	**670 J**	-	-	-	-
Dibenz(a,h)anthracene	ug/kg	**160**	30 U	**98**	-	-	-	-
Dibenzofuran	ug/kg	**23 J**	57 U	**62 J**	-	-	-	-
Fluoranthene	ug/kg	**1300**	**570**	**1700 J**	-	-	-	-
Fluorene	ug/kg	**51**	12 U	**88**	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/kg	**560**	**220**	**330 J**	-	-	-	-
Naphthalene	ug/kg	**21**	**60 J**	**33 J**	-	-	-	-
Phenanthrene	ug/kg	**470**	**270**	**1100 J**	-	-	-	-
Phenol	ug/kg	9.4 U	35 U	19 U	-	-	-	-
Pyrene	ug/kg	**1300**	**620**	**1300**	-	-	-	-
Metals								
Aluminum	mg/kg	**5300**	**3000**	**4600**	-	-	-	-
Antimony	mg/kg	**0.16 J**	**0.18 J**	**0.20 J**	-	-	-	-
Arsenic	mg/kg	**6.7**	**3.6**	**8.6**	-	-	-	-
Barium	mg/kg	**57 J**	**44 J**	**45 J**	-	-	-	-
Beryllium	mg/kg	**0.32 J**	**0.26 J**	**0.39 J**	-	-	-	-
Cadmium	mg/kg	**0.24**	**1.3**	**0.25**	-	-	-	-
Calcium	mg/kg	**61000**	**190000**	**190000**	-	-	-	-
Chromium	mg/kg	**8.5**	**6.8**	**8.7**	-	-	-	-
Chromium III (trivalent)	mg/kg	**7.9**	**6.8**	**8.7**	-	-	-	-
Chromium VI (hexavalent)	mg/kg	**0.56 J**	0.27 U	0.28 U	-	-	-	-
Cobalt	mg/kg	**4.6**	**2.7**	**4.7**	-	-	-	-
Copper	mg/kg	**14 J**	**16 J**	**17 J**	-	-	-	-
Iron	mg/kg	**12000**	**7000**	**11000**	-	-	-	-

Table 1

Summary of Detections
Soil/Fill Samples - EU1
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-43**	**SS-44**	**SS-45**	**SS-122**	**SS-124**	**SS-153-AS**	**SS-154-AS**
Sample ID:		**SS-38443-112718-AS-043**	**SS-38443-112718-AS-044**	**SS-38443-112718-AS-045**	**SS-38443-112018-JC-122**	**SS-38443-112718-AS-124**	**SS-38443-112018-JC-153**	**SS-38443-112018-JC-154**
Sample Date:		**11/27/2018**	**11/27/2018**	**11/27/2018**	**11/20/2018**	**11/27/2018**	**11/20/2018**	**11/20/2018**
Sample Depth:		**0.17-1 ft BGS**	**0.08-1 ft BGS**	**0.17-1.5 ft BGS**	**0-2 ft BGS**	**0.17-1.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**
Parameters	**Units**							
Lead	mg/kg	**30 J**	**39 J**	**19 J**	-	-	-	-
Lead - coarse fraction	mg/kg	-	**62**	-	-	-	-	-
Lead - fine fraction	mg/kg	-	**100**	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	**70**	-	-	-	-	-
Magnesium	mg/kg	**23000**	**29000**	**36000**	-	-	-	-
Manganese	mg/kg	**300 J**	**320 J**	**390 J**	-	-	-	-
Mercury	mg/kg	**0.071 J**	**0.13**	**0.078 J**	-	-	-	-
Nickel	mg/kg	**11 J**	**7.7 J**	**16 J**	-	-	-	-
Potassium	mg/kg	**720 J**	**450 J**	**660 J**	-	-	-	-
Selenium	mg/kg	**0.62 J**	**0.60 J**	**0.81 J**	-	-	-	-
Silver	mg/kg	**0.035 J**	**0.028 J**	**0.025 J**	-	-	-	-
Sodium	mg/kg	**79 J**	**120 J**	**150 J**	-	-	-	-
Thallium	mg/kg	**0.15 J**	**0.12 J**	**0.19**	-	-	-	-
Vanadium	mg/kg	**13**	**12**	**16**	-	-	-	-
Zinc	mg/kg	**57 J**	**48 J**	**46 J**	-	-	-	-
PCBs								
Aroclor-1254 (PCB-1254)	ug/kg	27 U	25 U	26 U	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/kg	26 U	24 U	25 U	-	-	-	-
Pesticides								
4,4'-DDE	ug/kg	1.8 U	1.7 U	8.4 U	-	-	-	-
4,4'-DDT	ug/kg	1.3 U	**1.2 NJ**	6.3 U	-	-	-	-
alpha-Chlordane	ug/kg	**3.1 J**	1.6 U	**32**	-	-	-	-
Endosulfan I	ug/kg	1.4 U	1.3 U	6.7 U	-	-	-	-
Endrin	ug/kg	2.2 U	2.1 U	11 U	-	-	-	-
Endrin aldehyde	ug/kg	1.5 U	1.4 U	7.3 U	-	-	-	-
gamma-Chlordane	ug/kg	**1.9 J**	1.4 U	**27 J**	-	-	-	-
Heptachlor epoxide	ug/kg	1.7 U	1.6 U	8.0 U	-	-	-	-
General Chemistry								
Cyanide (total)	mg/kg	0.24 U	0.22 U	0.24 U	-	-	-	-
Total solids	%	-	-	-	-	-	-	-

Notes
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 1

Summary of Detections
Soil/Fill Samples - EU1
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-155-AS**	**TT-14**	**TT-16**
Sample ID:		**SS-38443-112718-JC-155**	**S-38443-092508-KMV-015**	**S-38443-093008-KMV-033**
Sample Date:		**11/27/2018**	**9/25/2008**	**9/30/2008**
Sample Depth:		**0.17-1.5 ft BGS**	**3 ft BGS**	**2 ft BGS**
Parameters	**Units**			
Volatiles				
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	-	**4.0 J**	**4.7 J**
Acetone	ug/kg	-	21 U	**13 J**
Semi-Volatiles				
2-Methylnaphthalene	ug/kg	-	31 U	16 U
Acenaphthene	ug/kg	-	**200**	**45**
Acenaphthylene	ug/kg	-	**41**	**87**
Acetophenone	ug/kg	-	470 U	240 U
Anthracene	ug/kg	-	**570**	**190**
Benzaldehyde	ug/kg	-	470 U	240 U
Benzo(a)anthracene	ug/kg	-	**2000**	**700**
Benzo(a)pyrene	ug/kg	-	**1500**	**870**
Benzo(b)fluoranthene	ug/kg	-	**2000**	**1100**
Benzo(g,h,i)perylene	ug/kg	-	**900**	**630**
Benzo(k)fluoranthene	ug/kg	-	**960**	**400**
Biphenyl (1,1-Biphenyl)	ug/kg	-	230 U	120 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	-	**99 J**	120 U
Caprolactam	ug/kg	-	1500 U	790 U
Carbazole	ug/kg	-	**130 J**	**90 J**
Chrysene	ug/kg	-	**2000**	**820**
Dibenz(a,h)anthracene	ug/kg	-	31 U	**150**
Dibenzofuran	ug/kg	-	**100 J**	120 U
Fluoranthene	ug/kg	-	**4600**	**1700**
Fluorene	ug/kg	-	**250**	**64**
Indeno(1,2,3-cd)pyrene	ug/kg	-	**810**	**540**
Naphthalene	ug/kg	-	31 U	16 U
Phenanthrene	ug/kg	-	**1600**	**850**
Phenol	ug/kg	-	230 U	120 U
Pyrene	ug/kg	-	**3800**	**1400**
Metals				
Aluminum	mg/kg	-	**5370**	**5270**
Antimony	mg/kg	-	7.0 UJ	7.2 UJ
Arsenic	mg/kg	-	**6.5 J**	**5.5**
Barium	mg/kg	-	**71.7**	**53.8**
Beryllium	mg/kg	-	**0.22 J**	**0.24 J**
Cadmium	mg/kg	-	**0.39 J**	**0.29 J**
Calcium	mg/kg	-	**108000**	**91200 J**
Chromium	mg/kg	-	**11.9 J**	**7.8**
Chromium III (trivalent)	mg/kg	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-
Cobalt	mg/kg	-	**4.2 J**	**4.8 J**
Copper	mg/kg	-	**27.6**	**12.6**
Iron	mg/kg	-	**11700**	**11200**

Table 1

Summary of Detections
Soil/Fill Samples - EU1
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-155-AS**	**TT-14**	**TT-16**
Sample ID:		**SS-38443-112718-JC-155**	**S-38443-092508-KMV-015**	**S-38443-093008-KMV-033**
Sample Date:		**11/27/2018**	**9/25/2008**	**9/30/2008**
Sample Depth:		**0.17-1.5 ft BGS**	**3 ft BGS**	**2 ft BGS**
Parameters	**Units**			
Lead	mg/kg	-	**40.8**	**18.4 J**
Lead - coarse fraction	mg/kg	-	-	-
Lead - fine fraction	mg/kg	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-
Magnesium	mg/kg	-	**34900**	**44300**
Manganese	mg/kg	-	**295**	**624 J**
Mercury	mg/kg	-	**0.094 J**	**0.035 J**
Nickel	mg/kg	-	**12.9**	**10.7**
Potassium	mg/kg	-	**832**	**960 J**
Selenium	mg/kg	-	29.3 U	30.0 U
Silver	mg/kg	-	1.2 U	1.2 U
Sodium	mg/kg	-	586 U	**162 J**
Thallium	mg/kg	-	**0.17**	0.14 U
Vanadium	mg/kg	-	**15.1**	**14.5 J**
Zinc	mg/kg	-	**98.7 J**	**42.4 J**
PCBs				
Aroclor-1254 (PCB-1254)	ug/kg	-	**130**	40 UJ
Aroclor-1260 (PCB-1260)	ug/kg	-	39 U	40 UJ
Pesticides				
4,4'-DDE	ug/kg	-	**12 J**	100 U
4,4'-DDT	ug/kg	-	40 UJ	100 UJ
alpha-Chlordane	ug/kg	-	40 U	100 U
Endosulfan I	ug/kg	-	40 U	100 U
Endrin	ug/kg	-	40 U	100 U
Endrin aldehyde	ug/kg	-	40 U	100 U
gamma-Chlordane	ug/kg	-	**23 J**	100 U
Heptachlor epoxide	ug/kg	-	40 U	100 U
General Chemistry				
Cyanide (total)	mg/kg	-	**0.13 J**	0.60 U
Total solids	%	-	**85.4**	**83.3**

Notes
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 2

Summary of Detections
Soil/Fill Samples - EU2
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:							**BH98-18**	**BH99-18**	**BH100-18**	**SS-14**	**SS-15**
Sample ID:							**S-38443-121418-JC-150**	**S-38443-121418-JC-151**	**S-38443-121418-JC-152**	**SS-38443-112018-JC-014**	**SS-38443-112018-JC-015**
Sample Date:							**12/14/2018**	**12/14/2018**	**12/14/2018**	**11/20/2018**	**11/20/2018**
Sample Depth:							**2-5.5 ft BGS**	**6-9.5 ft BGS**	**4-7.5 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**	**Samples**	**Detects**	**Min Detect**	**Max Detect**	**Average (Detects)**					
Volatiles											
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	8	1	7.2	7.2	7.200	3.7 U	3.3 U	**7.2 J**	3.5 U	3.8 U
Acetone	ug/kg	8	1	23	23	23.000	22 U	**23**	22 U	21 U	23 U
Toluene	ug/kg	8	1	1.1	1.1	1.100	0.80 U	**1.1 J**	0.82 U	0.77 U	0.83 U
Semi-Volatiles											
2-Methylnaphthalene	ug/kg	8	1	23	23	23.000	2.3 U	2.1 U	**23**	2.3 U	2.5 U
Anthracene	ug/kg	8	1	4.2	4.2	4.200	**4.2 J**	2.6 U	2.7 U	2.9 U	3.1 U
Benzo(a)anthracene	ug/kg	8	4	9.6	24	15.400	**24**	3.7 U	3.9 U	4.1 U	**11 J**
Benzo(a)pyrene	ug/kg	8	6	12	31	20.833	**29**	**16**	**31**	11 U	**15 J**
Benzo(b)fluoranthene	ug/kg	8	6	8.8	46	27.300	**46**	7.0 U	**40**	7.7 U	**23**
Benzo(g,h,i)perylene	ug/kg	8	4	8.7	33	16.575	8.2 U	7.6 U	**33**	8.5 U	**15 J**
Benzo(k)fluoranthene	ug/kg	8	2	11	17	14.000	**17**	7.4 U	7.9 U	8.3 U	8.9 U
Chrysene	ug/kg	8	4	17	28	20.500	**28**	1.6 U	1.7 U	1.8 U	**17 J**
Fluoranthene	ug/kg	8	8	9.8	47	24.600	**47**	**13 J**	**28**	**9.8 J**	**26**
Indeno(1,2,3-cd)pyrene	ug/kg	8	2	8.8	29	18.900	8.5 U	7.9 U	**29**	8.8 U	9.4 U
Naphthalene	ug/kg	8	1	17	17	17.000	2.8 U	2.6 U	**17**	2.9 U	3.1 U
Phenanthrene	ug/kg	8	5	4.4	29	15.260	**29**	2.4 U	2.5 U	2.7 U	**13 J**
Phenol	ug/kg	8	1	14	14	14.000	9.2 U	8.6 U	9.1 U	9.5 U	10 U
Pyrene	ug/kg	8	8	9.1	38	22.763	**38**	**16**	**34**	**11 J**	**22**
Metals											
Aluminum	mg/kg	8	8	8500	17000	12737.500	**9400**	**8500**	**14000**	**12000**	**17000**
Antimony	mg/kg	8	8	0.18	1.5	0.629	**0.56**	**0.18 J**	**0.38**	**1.5**	**0.79**
Arsenic	mg/kg	8	8	7.2	14	9.913	**7.8**	**7.2**	**10**	**10**	**12**
Barium	mg/kg	8	8	72	180	115.125	**94**	**72**	**100**	**170**	**120**
Beryllium	mg/kg	8	8	0.42	0.71	0.553	**0.48**	**0.42**	**0.71**	**0.51**	**0.67**
Cadmium	mg/kg	8	8	0.19	0.48	0.283	**0.26**	**0.21**	**0.48**	**0.24**	**0.35**
Calcium	mg/kg	8	8	3600	56000	25700.000	**47000**	**56000**	**29000**	**12000**	**15000**
Chromium	mg/kg	8	8	13	24	18.500	**16**	**13**	**20**	**18**	**24**
Chromium III (trivalent)	mg/kg	8	8	13	24	18.500	**16**	**13**	**20**	**18**	**24**
Chromium VI (hexavalent)	mg/kg	8	2	0.29	0.29	0.290	**0.29 J**	0.26 U	0.28 U	**0.29 J**	0.62 U
Cobalt	mg/kg	8	8	5.6	8.8	7.638	**6.5**	**5.6**	**8.8**	**8.2**	**8.2**
Copper	mg/kg	8	8	12	31	20.000	**15**	**12**	**31**	**19**	**26**
Iron	mg/kg	8	8	15000	26000	21125.000	**17000**	**15000**	**22000**	**22000**	**26000**
Lead	mg/kg	8	8	14	46	23.000	**20**	**14**	**46**	**19**	**30**
Lead - coarse fraction	mg/kg	1	1	17	17	17.000	-	-	-	-	**17 J**
Lead - fine fraction	mg/kg	1	1	25	25	25.000	-	-	-	-	**25**
Lead - total (calculated by fine/coarse fraction)	mg/kg	1	1	18	18	18.000	-	-	-	-	**18**
Magnesium	mg/kg	8	8	3300	33000	14262.500	**27000**	**33000**	**11000**	**7200**	**8500**
Manganese	mg/kg	8	8	450	730	600.000	**610**	**450**	**510**	**730**	**670**
Mercury	mg/kg	8	8	0.025	0.067	0.042	**0.025 J**	**0.031 J**	**0.045 J**	**0.041 J**	**0.067 J**
Nickel	mg/kg	8	8	13	23	18.375	**15**	**13**	**19**	**19**	**23**
Potassium	mg/kg	8	8	850	1900	1258.750	**850**	**920**	**1300**	**1200**	**1900**
Selenium	mg/kg	8	8	0.16	1.6	0.908	**0.27 J**	**0.16 J**	**0.43 J**	**1.1**	**1.6**

Table 2

Summary of Detections
Soil/Fill Samples - EU2
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:							**BH98-18**	**BH99-18**	**BH100-18**	**SS-14**	**SS-15**
Sample ID:							**S-38443-121418-JC-150**	**S-38443-121418-JC-151**	**S-38443-121418-JC-152**	**SS-38443-112018-JC-014**	**SS-38443-112018-JC-015**
Sample Date:							**12/14/2018**	**12/14/2018**	**12/14/2018**	**11/20/2018**	**11/20/2018**
Sample Depth:							**2-5.5 ft BGS**	**6-9.5 ft BGS**	**4-7.5 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**	**Samples**	**Detects**	**Min Detect**	**Max Detect**	**Average (Detects)**					
Silver	mg/kg	8	8	0.038	0.12	0.067	**0.052 J**	**0.044 J**	**0.10 J**	**0.055 J**	**0.12 J**
Sodium	mg/kg	8	4	64	110	81.500	**85 J**	**110 J**	**67 J**	57 U	60 U
Thallium	mg/kg	8	8	0.071	0.26	0.173	**0.071 J**	**0.071 J**	**0.10**	**0.20 J**	**0.26**
Vanadium	mg/kg	8	8	25	43	33.375	**27**	**25**	**35**	**33**	**43**
Zinc	mg/kg	8	8	44	120	78.125	**57**	**44**	**120**	**81**	**110**
Pesticides											
4,4'-DDT	ug/kg	8	2	1.5	3.5	2.500	1.3 U	**1.5 J**	1.3 U	1.3 U	**3.5 J**

Notes
J - Estimated concentration.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 2

Summary of Detections
Soil/Fill Samples - EU2
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-16**	**SS-17**	**SS-18**	**SS-148**	**SS-152**	**SS-156-AS**	**SS-157-AS**
Sample ID:		**SS-38443-112018-JC-016**	**SS-38443-112018-JC-017**	**SS-38443-112018-JC-018**	**SS-38443-112018-JC-148**	**SS-38443-112018-JC-152**	**SS-38443-112018-JC-156**	**SS-38443-112018-JC-157**
Sample Date:		**11/20/2018**	**11/20/2018**	**11/20/2018**	**11/20/2018**	**11/20/2018**	**11/20/2018**	**11/20/2018**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**
Parameters	**Units**							
Volatiles								
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	3.8 U	3.3 U	3.4 U	-	-	-	-
Acetone	ug/kg	22 U	20 U	20 U	-	-	-	-
Toluene	ug/kg	0.82 U	0.72 U	0.74 U	-	-	-	-
Semi-Volatiles								
2-Methylnaphthalene	ug/kg	2.3 U	2.3 U	2.4 U	-	-	-	-
Anthracene	ug/kg	2.8 U	2.9 U	3.0 U	-	-	-	-
Benzo(a)anthracene	ug/kg	**9.6 J**	**17 J**	4.2 U	-	-	-	-
Benzo(a)pyrene	ug/kg	**12 J**	**22**	11 U	-	-	-	-
Benzo(b)fluoranthene	ug/kg	**18**	**28**	**8.8 J**	-	-	-	-
Benzo(g,h,i)perylene	ug/kg	**9.6 J**	**8.7 J**	8.7 U	-	-	-	-
Benzo(k)fluoranthene	ug/kg	8.1 U	**11 J**	8.5 U	-	-	-	-
Chrysene	ug/kg	**17 J**	**20**	1.8 U	-	-	-	-
Fluoranthene	ug/kg	**22**	**40**	**11 J**	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/kg	8.6 U	**8.8 J**	9.0 U	-	-	-	-
Naphthalene	ug/kg	2.8 U	2.9 U	3.0 U	-	-	-	-
Phenanthrene	ug/kg	**8.9 J**	**21**	**4.4 J**	-	-	-	-
Phenol	ug/kg	9.3 U	9.5 U	**14 J**	-	-	-	-
Pyrene	ug/kg	**18**	**34**	**9.1 J**	-	-	-	-
Metals								
Aluminum	mg/kg	**14000**	**14000**	**13000**	-	-	-	-
Antimony	mg/kg	**0.99**	**0.27 J**	**0.36 J**	-	-	-	-
Arsenic	mg/kg	**8.3**	**14**	**10**	-	-	-	-
Barium	mg/kg	**180**	**95**	**90**	-	-	-	-
Beryllium	mg/kg	**0.51**	**0.59**	**0.53**	-	-	-	-
Cadmium	mg/kg	**0.19 J**	**0.20 J**	**0.33**	-	-	-	-
Calcium	mg/kg	**32000**	**3600**	**11000**	-	-	-	-
Chromium	mg/kg	**19**	**19**	**19**	-	-	-	-
Chromium III (trivalent)	mg/kg	**19**	**19**	**19**	-	-	-	-
Chromium VI (hexavalent)	mg/kg	0.56 U	0.57 U	0.59 U	-	-	-	-
Cobalt	mg/kg	**7.5**	**8.4**	**7.9**	-	-	-	-
Copper	mg/kg	**16**	**20**	**21**	-	-	-	-
Iron	mg/kg	**20000**	**25000**	**22000**	-	-	-	-
Lead	mg/kg	**15**	**16**	**24**	-	-	-	-
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-
Magnesium	mg/kg	**17000**	**3300**	**7100**	-	-	-	-
Manganese	mg/kg	**660**	**580**	**590**	-	-	-	-
Mercury	mg/kg	**0.037 J**	**0.035 J**	**0.051 J**	-	-	-	-
Nickel	mg/kg	**20**	**19**	**19**	-	-	-	-
Potassium	mg/kg	**1100**	**1300**	**1500**	-	-	-	-
Selenium	mg/kg	**1.2**	**1.2**	**1.3**	-	-	-	-

Table 2

Summary of Detections
Soil/Fill Samples - EU2
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-16**	**SS-17**	**SS-18**	**SS-148**	**SS-152**	**SS-156-AS**	**SS-157-AS**
Sample ID:		**SS-38443-112018-JC-016**	**SS-38443-112018-JC-017**	**SS-38443-112018-JC-018**	**SS-38443-112018-JC-148**	**SS-38443-112018-JC-152**	**SS-38443-112018-JC-156**	**SS-38443-112018-JC-157**
Sample Date:		**11/20/2018**	**11/20/2018**	**11/20/2018**	**11/20/2018**	**11/20/2018**	**11/20/2018**	**11/20/2018**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**
Parameters	**Units**							
Silver	mg/kg	**0.043 J**	**0.038 J**	**0.083 J**	-	-	-	-
Sodium	mg/kg	**64 J**	58 U	57 U	-	-	-	-
Thallium	mg/kg	**0.21**	**0.24**	**0.23**	-	-	-	-
Vanadium	mg/kg	**34**	**35**	**35**	-	-	-	-
Zinc	mg/kg	**55**	**58**	**100**	-	-	-	-
Pesticides								
4,4'-DDT	ug/kg	1.3 U	6.6 U	1.4 U	-	-	-	-

Notes
J - Estimated concentration.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 3

Summary of Detections
Soil/Fill Samples - EU3
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:							**BH152-18**	**BH153-18**	**BH154-18**	**BH155-18**
Sample ID:							**S-38443-052918-JC-099**	**S-38443-052918-JC-092**	**S-38443-052918-JC-094**	**S-38443-052918-JC-096**
Sample Date:							**5/29/2018**	**5/29/2018**	**5/29/2018**	**5/29/2018**
Sample Depth:							**9-11 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**
Parameters	**Units**	**Samples**	**Detects**	**Min Detect**	**Max Detect**	**Average (Detects)**				
Volatiles										
1,4-Dichlorobenzene	ug/kg	15	1	23	23	23.000	R	0.93 U	0.71 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	15	10	4.3	13	7.810	**4.3 J**	**11 J**	2.9 U	**7.8 J**
Acetone	ug/kg	15	7	22	63	41.143	23 U	22 U	17 U	**27 J**
Benzene	ug/kg	15	1	0.33	0.33	0.330	0.77 U	0.74 U	0.56 U	0.80 U
cis-1,2-Dichloroethene	ug/kg	15	1	0.47	0.47	0.470	0.72 U	0.69 U	0.52 U	0.74 U
Cyclohexane	ug/kg	16	3	0.43	210	90.477	1.5 U	**61**	1.1 U	1.6 U
Ethylbenzene	ug/kg	15	2	0.38	380	190.190	1.2 U	1.1 U	0.84 U	1.2 U
Isopropyl benzene	ug/kg	15	1	140	140	140.000	0.92 U	0.88 U	0.67 U	0.95 U
Methyl cyclohexane	ug/kg	16	5	0.55	410	102.258	1.4 U	**23**	0.99 U	1.4 U
Methylene chloride	ug/kg	16	1	500	500	500.000	13 U	13 U	9.6 U	14 U
Toluene	ug/kg	15	3	0.92	430	144.007	0.85 U	**0.92 J**	0.62 U	0.88 U
Xylenes (total)	ug/kg	15	3	0.68	2800	934.260	1.7 U	1.7 U	1.3 U	1.8 U
Semi-Volatiles										
2-Methylnaphthalene	ug/kg	15	12	5.9	6300	627.667	**850**	**10 J**	**20**	0.58 U
Acenaphthene	ug/kg	15	8	5	54000	6890.375	**750**	**64**	0.83 U	0.88 U
Acenaphthylene	ug/kg	15	7	4.9	1100	175.100	**1100**	1.0 U	0.38 U	0.41 U
Anthracene	ug/kg	15	13	4.8	120000	9565.462	**3400**	**120**	**6.2 J**	0.91 U
Benzo(a)anthracene	ug/kg	15	13	28	260000	20711.923	**5900**	**280**	**30**	0.73 UJ
Benzo(a)pyrene	ug/kg	15	14	11	270000	19885.929	**4800**	**270**	**30**	**11 J**
Benzo(b)fluoranthene	ug/kg	15	14	15	330000	24443.643	**7400**	**410**	**47**	**15 J**
Benzo(g,h,i)perylene	ug/kg	15	13	24	120000	9593.231	**2500**	**160**	**29**	0.41 UJ
Benzo(k)fluoranthene	ug/kg	15	12	17	130000	11208.750	**2500**	**150**	0.74 U	0.79 UJ
Biphenyl (1,1-Biphenyl)	ug/kg	15	1	260	260	260.000	**260 J**	48 U	18 U	20 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	15	3	73	620	304.333	770 U	**220**	55 U	59 U
Carbazole	ug/kg	15	4	72	92000	23508.000	**1800**	**72 J**	21 U	22 U
Chrysene	ug/kg	15	13	35	250000	19971.615	**6000**	**340**	**40**	1.3 UJ
Dibenz(a,h)anthracene	ug/kg	15	8	9.3	39000	5006.288	**670**	1.9 U	0.72 U	0.77 U
Dibenzofuran	ug/kg	15	4	72	30000	7964.000	**1700**	37 U	14 U	15 U
Di-n-butylphthalate (DBP)	ug/kg	15	1	25	25	25.000	330 U	63 U	24 U	26 U
Fluoranthene	ug/kg	15	14	19	590000	43713.786	**15000**	**700**	**56**	**19 J**
Fluorene	ug/kg	15	9	6.3	62000	7214.733	**2600**	**74**	0.58 U	0.62 U
Indeno(1,2,3-cd)pyrene	ug/kg	15	13	24	120000	9558.385	**2300**	**150**	**26**	0.41 UJ
Naphthalene	ug/kg	15	9	5.3	18000	2122.033	**870**	2.3 U	**19**	0.95 U
Phenanthrene	ug/kg	15	14	7.9	480000	35565.207	**15000**	**510**	**45**	**7.9 J**
Pyrene	ug/kg	15	14	17	450000	33376.429	**11000**	**600**	**53**	**17 J**
Metals										
Aluminum	mg/kg	15	15	1500	9800	6186.000	**9600**	**8700**	**3400**	**9200**
Antimony	mg/kg	15	12	0.13	5	0.736	**5.0 J**	**0.16 J**	**0.19 J**	**0.16 J**
Arsenic	mg/kg	15	15	1.8	17.7	7.300	**8.7**	**7.6**	**7.7**	**8.1**
Barium	mg/kg	15	15	17.8	389	100.320	**260**	**92**	**50**	**78**
Beryllium	mg/kg	15	15	0.099	2.9	0.591	**0.38**	**0.50**	**0.24**	**0.51**
Cadmium	mg/kg	15	14	0.091	15	1.295	**15**	**0.22**	**0.25**	**0.21**

Table 3

Summary of Detections
Soil/Fill Samples - EU3
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:							**BH152-18**	**BH153-18**	**BH154-18**	**BH155-18**
Sample ID:							**S-38443-052918-JC-099**	**S-38443-052918-JC-092**	**S-38443-052918-JC-094**	**S-38443-052918-JC-096**
Sample Date:							**5/29/2018**	**5/29/2018**	**5/29/2018**	**5/29/2018**
Sample Depth:							**9-11 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**
Parameters	**Units**	**Samples**	**Detects**	**Min Detect**	**Max Detect**	**Average (Detects)**				
Calcium	mg/kg	15	15	5650	220000	89776.667	**100000**	**45000**	**110000**	**24000**
Chromium	mg/kg	15	15	4.5	280	30.613	**35**	**12**	**7.7**	**14**
Chromium III (trivalent)	mg/kg	13	13	4.5	280	33.992	**35**	**12**	**7.7**	**13**
Chromium VI (hexavalent)	mg/kg	13	4	0.31	1	0.705	**0.31 J**	0.27 U	0.26 U	**1.0**
Cobalt	mg/kg	15	15	1.2	7.9	4.533	**6.1**	**5.5**	**3.4**	**5.8**
Copper	mg/kg	15	15	6.7	96	21.367	**96**	**21**	**11**	**14**
Iron	mg/kg	15	15	6040	54000	15535.333	**15000**	**15000**	**9800**	**16000**
Lead	mg/kg	15	15	6.4	1000	123.827	**550**	**68**	**34**	**12**
Lead - coarse fraction	mg/kg	1	1	100	100	100.000	-	-	-	-
Lead - fine fraction	mg/kg	1	1	210	210	210.000	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	1	1	110	110	110.000	-	-	-	-
Magnesium	mg/kg	15	15	1290	65000	33659.333	**34000**	**19000**	**49000**	**10000**
Manganese	mg/kg	15	15	84.9	6000	763.460	**470**	**430**	**370**	**250**
Mercury	mg/kg	15	11	0.022	0.61	0.152	**0.61**	**0.060 J**	**0.034 J**	**0.027 J**
Nickel	mg/kg	15	15	7.4	28	12.340	**28**	**13**	**9.0**	**16**
Potassium	mg/kg	15	15	365	1200	704.333	**1200**	**770**	**470**	**790**
Selenium	mg/kg	15	14	0.24	3.7	0.777	**1.4**	**0.51 J**	**0.38 J**	**0.45 J**
Silver	mg/kg	15	12	0.021	1.9	0.233	**1.9**	**0.043 J**	**0.046 J**	**0.037 J**
Sodium	mg/kg	15	15	61	620	172.400	**620**	**94 J**	**120 J**	**61 J**
Thallium	mg/kg	15	13	0.083	0.54	0.183	**0.16 J**	**0.15 J**	**0.10 J**	**0.16 J**
Vanadium	mg/kg	15	15	5.2	170	27.240	**19**	**21**	**10**	**22**
Zinc	mg/kg	15	15	10.3	1600	163.967	**1600**	**57**	**71**	**47**
PCBs										
Aroclor-1242 (PCB-1242)	ug/kg	15	1	980	980	980.000	23 U	**980**	20 U	23 U
Aroclor-1254 (PCB-1254)	ug/kg	15	2	70	1300	685.000	**70**	**1300**	24 U	27 U
Pesticides										
4,4'-DDD	ug/kg	15	1	2.8	2.8	2.800	**2.8 J**	1.7 U	7.8 U	1.8 U
4,4'-DDE	ug/kg	15	2	2.1	28	15.050	**2.1 J**	**28**	8.0 U	1.8 U
4,4'-DDT	ug/kg	15	1	1.4	1.4	1.400	1.4 U	1.3 U	6.0 U	1.3 U
alpha-Chlordane	ug/kg	15	2	4	36	20.000	**4.0 J**	**36**	7.9 U	1.8 U
Dieldrin	ug/kg	15	1	2	2	2.000	1.3 U	**2.0 NJ**	5.8 U	1.3 U
Endosulfan II	ug/kg	15	1	4.3	4.3	4.300	1.8 U	**4.3 NJ**	7.8 U	1.8 U
gamma-BHC (lindane)	ug/kg	15	1	3.8	3.8	3.800	2.2 U	**3.8 J**	9.5 U	2.1 U
gamma-Chlordane	ug/kg	15	2	3.6	30	16.800	**3.6 J**	**30 J**	6.5 U	1.5 U
Heptachlor epoxide	ug/kg	15	2	2	8	5.000	**2.0 J**	**8.0 NJ**	7.6 U	1.7 U
Geotechnical										
Coarse sand	%	1	1	15.4	15.4	15.400	-	-	-	-
Fine sand	%	1	1	7.4	7.4	7.400	-	-	-	-
Fines	%	1	1	7.7	7.7	7.700	-	-	-	-
Gravel	%	1	1	49.2	49.2	49.200	-	-	-	-
Medium sand	%	1	1	20.4	20.4	20.400	-	-	-	-
Sand	%	1	1	43.2	43.2	43.200	-	-	-	-

Table 3

Summary of Detections
Soil/Fill Samples - EU3
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:							**BH152-18**	**BH153-18**	**BH154-18**	**BH155-18**
Sample ID:							**S-38443-052918-JC-099**	**S-38443-052918-JC-092**	**S-38443-052918-JC-094**	**S-38443-052918-JC-096**
Sample Date:							**5/29/2018**	**5/29/2018**	**5/29/2018**	**5/29/2018**
Sample Depth:							**9-11 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**
Parameters	**Units**	**Samples**	**Detects**	**Min Detect**	**Max Detect**	**Average (Detects)**				
Sieve, #4	% passed	1	1	50.8	50.8	50.800	-	-	-	-
Sieve, #10	% passed	1	1	35.4	35.4	35.400	-	-	-	-
Sieve, #20	% passed	1	1	24.2	24.2	24.200	-	-	-	-
Sieve, #40	% passed	1	1	15	15	15.000	-	-	-	-
Sieve, #60	% passed	1	1	11.1	11.1	11.100	-	-	-	-
Sieve, #80	% passed	1	1	9.9	9.9	9.900	-	-	-	-
Sieve, #100	% passed	1	1	9.3	9.3	9.300	-	-	-	-
Sieve, #200	% passed	1	1	7.7	7.7	7.700	-	-	-	-
Sieve, 0.375 inch	% passed	1	1	64	64	64.000	-	-	-	-
Sieve, 0.75 inch	% passed	1	1	77.5	77.5	77.500	-	-	-	-
Sieve, 1 inch	% passed	1	1	100	100	100.000	-	-	-	-
Sieve, 1.5 inch	% passed	1	1	100	100	100.000	-	-	-	-
Sieve, 2 inch	% passed	1	1	100	100	100.000	-	-	-	-
Sieve, 3 inch	% passed	1	1	100	100	100.000	-	-	-	-
General Chemistry										
Cyanide (total)	mg/kg	15	3	0.24	0.52	0.343	**0.24 J**	**0.27 J**	0.19 U	0.20 U
Total solids	%	2	2	73.2	94.1	83.650	-	-	-	-

Notes
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 3

Summary of Detections
Soil/Fill Samples - EU3
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH155-18**	**BH155-18**	**BH156-18**	**BH157-18**	**GP07-18**	**SS-146**	**SS-147**
Sample ID:		**S-38443-052918-JC-097**	**S-38443-052918-JC-097**	**S-38443-051618-JC-074**	**S-38443-051718-JC-083**	**SO-38443-080118-JC-121**	**S-38443-052918-JC-098**	**S-38443-052918-JC-091**
Sample Date:		**5/29/2018**	**5/29/2018**	**5/16/2018**	**5/17/2018**	**8/1/2018**	**5/29/2018**	**5/29/2018**
Sample Depth:		**13-15 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**	**12-14 ft BGS**	**12-13 ft bgs**	**0-2 ft BGS**	**0-2 ft BGS**
			Duplicate					
Parameters	**Units**							
Volatiles								
1,4-Dichlorobenzene	ug/kg	-	0.97 U	0.38 U	0.31 U	25 U	0.78 U	0.77 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	-	**5.1 J**	1.4 U	1.1 U	46 U	**5.4 J**	**8.7 J**
Acetone	ug/kg	-	23 U	7.9 U	2.7 U	130 U	**30**	**49**
Benzene	ug/kg	-	0.77 U	0.35 U	**0.33 J**	22 U	0.62 U	0.61 U
cis-1,2-Dichloroethene	ug/kg	-	0.72 U	0.31 U	0.25 U	32 U	0.58 U	0.57 U
Cyclohexane	ug/kg	-	1.5 U	0.23 U	**0.43 J**	28 U	1.2 U	1.2 U
Ethylbenzene	ug/kg	-	1.2 U	0.30 U	**0.38 J**	**380**	0.93 U	0.91 U
Isopropyl benzene	ug/kg	-	0.92 U	0.22 U	0.18 U	**140 J**	0.74 U	0.72 U
Methyl cyclohexane	ug/kg	-	1.4 U	0.25 U	**0.55 J**	**77 J**	1.1 U	1.1 U
Methylene chloride	ug/kg	-	13 U	0.26 U	0.21 U	60 U	11 U	10 U
Toluene	ug/kg	-	0.85 U	0.37 U	**1.1 J**	**430**	0.68 U	0.67 U
Xylenes (total)	ug/kg	-	1.8 U	0.44 U	**0.68 J**	**2800**	1.4 U	1.4 U
Semi-Volatiles								
2-Methylnaphthalene	ug/kg	-	**5.9 J**	**26**	0.53 U	-	**6300**	**58 J**
Acenaphthene	ug/kg	-	0.88 U	0.97 U	**10**	-	**54000**	8.0 U
Acenaphthylene	ug/kg	-	**4.9 J**	**9.7**	0.37 U	-	150 U	3.7 U
Anthracene	ug/kg	-	**4.8 J**	**15**	**31**	-	**120000**	**57 J**
Benzo(a)anthracene	ug/kg	-	**28 J**	**57**	**130**	-	**260000**	**440**
Benzo(a)pyrene	ug/kg	-	**35 J**	**52**	**120**	-	**270000**	**680**
Benzo(b)fluoranthene	ug/kg	-	**46 J**	**76**	**150**	-	**330000**	**960**
Benzo(g,h,i)perylene	ug/kg	-	**24 J**	**42**	**84**	-	**120000**	**440**
Benzo(k)fluoranthene	ug/kg	-	**17 J**	**32**	**67**	-	**130000**	**510**
Biphenyl (1,1-Biphenyl)	ug/kg	-	20 U	22 U	18 U	-	7500 U	180 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	-	**73 J**	65 U	54 U	-	23000 U	**620 J**
Carbazole	ug/kg	-	22 U	24 U	20 U	-	**92000**	200 U
Chrysene	ug/kg	-	**35 J**	**68**	**140**	-	**250000**	**580**
Dibenz(a,h)anthracene	ug/kg	-	0.77 U	**11**	**19**	-	**39000**	7.0 U
Dibenzofuran	ug/kg	-	15 U	17 U	14 U	-	**30000**	140 U
Di-n-butylphthalate (DBP)	ug/kg	-	26 U	28 U	23 U	-	9700 U	230 U
Fluoranthene	ug/kg	-	**58 J**	**110**	**250**	-	**590000**	**800**
Fluorene	ug/kg	-	0.62 U	**6.3 J**	**9.2**	-	**62000**	5.6 U
Indeno(1,2,3-cd)pyrene	ug/kg	-	**24 J**	**34**	**69**	-	**120000**	**410**
Naphthalene	ug/kg	-	**5.3 J**	**19**	0.87 U	-	**18000**	8.7 U
Phenanthrene	ug/kg	-	**25 J**	**57**	**100**	-	**480000**	**360**
Pyrene	ug/kg	-	**50 J**	**97**	**220**	-	**450000**	**890**
Metals								
Aluminum	mg/kg	-	**8900**	**5800**	**1500 J**	-	**5900**	**9800**
Antimony	mg/kg	-	**0.19 J**	**0.23 J**	0.12 UJ	-	**1.1 J**	**0.13 J**
Arsenic	mg/kg	-	**7.6**	**7.5**	**5.7**	-	**9.4**	**1.8**
Barium	mg/kg	-	**81**	**82 J**	**19**	-	**74**	**110**
Beryllium	mg/kg	-	**0.52**	**0.43**	**0.19**	-	**0.51**	**2.9**
Cadmium	mg/kg	-	**0.22**	**0.25**	**0.091 J**	-	**0.67**	**0.18 J**

Table 3

Summary of Detections
Soil/Fill Samples - EU3
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH155-18**	**BH155-18**	**BH156-18**	**BH157-18**	**GP07-18**	**SS-146**	**SS-147**
Sample ID:		**S-38443-052918-JC-097**	**S-38443-052918-JC-097**	**S-38443-051618-JC-074**	**S-38443-051718-JC-083**	**SO-38443-080118-JC-121**	**S-38443-052918-JC-098**	**S-38443-052918-JC-091**
Sample Date:		**5/29/2018**	**5/29/2018**	**5/16/2018**	**5/17/2018**	**8/1/2018**	**5/29/2018**	**5/29/2018**
Sample Depth:		**13-15 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**	**12-14 ft BGS**	**12-13 ft bgs**	**0-2 ft BGS**	**0-2 ft BGS**
			Duplicate					
Parameters	**Units**							
Calcium	mg/kg	-	**20000**	**120000**	**220000**	-	**79000**	**170000**
Chromium	mg/kg	-	**15**	**9.7**	**4.5**	-	**16**	**280**
Chromium III (trivalent)	mg/kg	-	**15**	**9.7**	**4.5**	-	**16**	**280**
Chromium VI (hexavalent)	mg/kg	-	0.28 U	0.31 U	0.25 U	-	0.27 U	**0.66 J**
Cobalt	mg/kg	-	**5.4**	**4.5**	**2.5**	-	**5.1**	**1.2**
Copper	mg/kg	-	**15**	**14**	**6.7**	-	**50**	**17**
Iron	mg/kg	-	**16000**	**12000**	**6300**	-	**22000**	**54000**
Lead	mg/kg	-	**16**	**34 J**	**6.8**	-	**1000**	**14**
Lead - coarse fraction	mg/kg	-	-	-	-	-	**100 J**	-
Lead - fine fraction	mg/kg	-	-	-	-	-	**210**	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	**110**	-
Magnesium	mg/kg	-	**11000**	**53000**	**52000**	-	**37000**	**65000**
Manganese	mg/kg	-	**310**	**480**	**340 J**	-	**390**	**6000**
Mercury	mg/kg	-	**0.025 J**	**0.18**	0.018 U	-	**0.56**	0.019 U
Nickel	mg/kg	-	**15**	**12**	**8.9**	-	**14**	**8.9**
Potassium	mg/kg	-	**810**	**730**	**440**	-	**640**	**650**
Selenium	mg/kg	-	**0.45 J**	**0.38 J**	**0.24 J**	-	**0.45 J**	**1.1**
Silver	mg/kg	-	**0.063 J**	**0.049 J**	0.021 U	-	**0.35**	**0.13 J**
Sodium	mg/kg	-	**66 J**	**180 J**	**140 J**	-	**120 J**	**460 J**
Thallium	mg/kg	-	**0.16 J**	**0.15 J**	**0.083 J**	-	**0.25**	0.046 U
Vanadium	mg/kg	-	**23**	**15**	**5.2**	-	**18**	**170**
Zinc	mg/kg	-	**48**	**69**	**15**	-	**260**	**62**
PCBs								
Aroclor-1242 (PCB-1242)	ug/kg	-	22 U	24 U	20 U	-	20 U	20 U
Aroclor-1254 (PCB-1254)	ug/kg	-	26 U	29 U	25 U	-	25 U	24 U
Pesticides								
4,4'-DDD	ug/kg	-	1.7 U	20 U	1.5 U	-	32 U	1.5 U
4,4'-DDE	ug/kg	-	1.7 U	20 U	1.6 U	-	33 U	1.6 U
4,4'-DDT	ug/kg	-	1.3 U	15 U	1.2 UJ	-	24 U	**1.4 J**
alpha-Chlordane	ug/kg	-	1.7 U	20 U	1.6 U	-	32 U	1.5 U
Dieldrin	ug/kg	-	1.3 U	15 U	1.1 U	-	24 U	1.1 U
Endosulfan II	ug/kg	-	1.7 U	20 U	1.5 U	-	32 U	1.5 U
gamma-BHC (lindane)	ug/kg	-	2.1 U	24 U	1.9 U	-	39 U	1.8 U
gamma-Chlordane	ug/kg	-	1.4 U	16 U	1.3 U	-	27 U	1.3 U
Heptachlor epoxide	ug/kg	-	1.7 U	19 U	1.5 U	-	31 U	1.5 U
Geotechnical								
Coarse sand	%	-	-	-	-	**15.4**	-	-
Fine sand	%	-	-	-	-	**7.4**	-	-
Fines	%	-	-	-	-	**7.7**	-	-
Gravel	%	-	-	-	-	**49.2**	-	-
Medium sand	%	-	-	-	-	**20.4**	-	-
Sand	%	-	-	-	-	**43.2**	-	-

Table 3

Summary of Detections
Soil/Fill Samples - EU3
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH155-18**	**BH155-18**	**BH156-18**	**BH157-18**	**GP07-18**	**SS-146**	**SS-147**
Sample ID:		**S-38443-052918-JC-097**	**S-38443-052918-JC-097**	**S-38443-051618-JC-074**	**S-38443-051718-JC-083**	**SO-38443-080118-JC-121**	**S-38443-052918-JC-098**	**S-38443-052918-JC-091**
Sample Date:		**5/29/2018**	**5/29/2018**	**5/16/2018**	**5/17/2018**	**8/1/2018**	**5/29/2018**	**5/29/2018**
Sample Depth:		**13-15 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**	**12-14 ft BGS**	**12-13 ft bgs**	**0-2 ft BGS**	**0-2 ft BGS**
			Duplicate					
Parameters	**Units**							
Sieve, #4	% passed	-	-	-	-	**50.8**	-	-
Sieve, #10	% passed	-	-	-	-	**35.4**	-	-
Sieve, #20	% passed	-	-	-	-	**24.2**	-	-
Sieve, #40	% passed	-	-	-	-	**15.0**	-	-
Sieve, #60	% passed	-	-	-	-	**11.1**	-	-
Sieve, #80	% passed	-	-	-	-	**9.9**	-	-
Sieve, #100	% passed	-	-	-	-	**9.3**	-	-
Sieve, #200	% passed	-	-	-	-	**7.7**	-	-
Sieve, 0.375 inch	% passed	-	-	-	-	**64.0**	-	-
Sieve, 0.75 inch	% passed	-	-	-	-	**77.5**	-	-
Sieve, 1 inch	% passed	-	-	-	-	**100.0**	-	-
Sieve, 1.5 inch	% passed	-	-	-	-	**100.0**	-	-
Sieve, 2 inch	% passed	-	-	-	-	**100.0**	-	-
Sieve, 3 inch	% passed	-	-	-	-	**100.0**	-	-
General Chemistry								
Cyanide (total)	mg/kg	-	0.25 U	0.26 U	0.19 U	-	0.22 U	0.18 U
Total solids	%	-	-	-	-	-	-	-

Notes
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 3

Summary of Detections
Soil/Fill Samples - EU3
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-149**	**SS-150**	**SS-151**	**SS-153**	**TT-18**	**TT-18**
Sample ID:		**S-38443-052918-JC-095**	**S-38443-052918-JC-093**	**S-38443-051618-JC-073**	**S-38443-051718-JC-075**	**S-38443-100108-KMV-036**	**S-38443-100108-KMV-037**
Sample Date:		**5/29/2018**	**5/29/2018**	**5/16/2018**	**5/17/2018**	**10/1/2008**	**10/1/2008**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**5 ft BGS**	**12 ft BGS**
Parameters	**Units**						
Volatiles							
1,4-Dichlorobenzene	ug/kg	0.77 U	0.84 U	0.29 U	0.28 U	**23 J**	4.9 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	**7.2 J**	**13 J**	**5.7 J**	**9.9 J**	R	20 U
Acetone	ug/kg	**42**	**63**	**22**	**55**	R	20 U
Benzene	ug/kg	0.61 U	0.66 U	0.27 U	0.26 U	R	4.9 U
cis-1,2-Dichloroethene	ug/kg	0.57 U	0.62 U	0.23 U	**0.47 J**	R	4.9 U
Cyclohexane	ug/kg	1.2 U	1.3 U	0.17 U	0.17 U	**210 J**	9.8 U
Ethylbenzene	ug/kg	0.91 U	0.99 U	0.22 U	0.22 U	R	4.9 U
Isopropyl benzene	ug/kg	0.73 U	0.79 U	0.17 U	0.16 U	R	4.9 U
Methyl cyclohexane	ug/kg	1.1 U	1.2 U	0.19 U	0.18 U	**410 J**	**0.74 J**
Methylene chloride	ug/kg	10 U	11 U	0.20 U	0.19 U	**500 J**	4.9 U
Toluene	ug/kg	0.67 U	0.73 U	0.28 U	0.27 U	R	4.9 U
Xylenes (total)	ug/kg	1.4 U	1.5 U	0.33 U	0.32 U	R	**2.1 J**
Semi-Volatiles							
2-Methylnaphthalene	ug/kg	**160 J**	0.56 U	**8.1**	**22 J**	**10**	**62**
Acenaphthene	ug/kg	**97**	0.85 U	**5.0 J**	**57**	9.1 U	**140**
Acenaphthylene	ug/kg	**79**	0.39 U	**6.1 J**	**18 J**	9.1 U	**8.0**
Anthracene	ug/kg	**260**	**11**	**16**	**380**	9.1 U	**50**
Benzo(a)anthracene	ug/kg	**1400**	**63**	**49**	**800**	9.1 U	**78**
Benzo(a)pyrene	ug/kg	**1500**	**59**	**43**	**730**	9.1 U	**73**
Benzo(b)fluoranthene	ug/kg	**2000**	**70**	**67**	**870**	9.1 U	**100**
Benzo(g,h,i)perylene	ug/kg	**850**	**42**	**41**	**450**	9.1 U	**50**
Benzo(k)fluoranthene	ug/kg	**790**	**30**	**27**	**340**	9.1 U	**42**
Biphenyl (1,1-Biphenyl)	ug/kg	73 U	19 U	19 U	73 U	68 U	53 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	220 U	57 U	58 U	220 U	68 U	53 U
Carbazole	ug/kg	**160 J**	21 U	22 U	81 U	68 U	53 U
Chrysene	ug/kg	**1400**	**57**	**61**	**830**	9.1 U	**80**
Dibenz(a,h)anthracene	ug/kg	**230**	0.74 U	**9.3**	**100**	9.1 U	**11**
Dibenzofuran	ug/kg	**72 J**	15 U	15 U	56 U	68 U	**84**
Di-n-butylphthalate (DBP)	ug/kg	94 U	25 U	**25 J**	94 U	68 U	53 U
Fluoranthene	ug/kg	**2700**	**100**	**110**	**1900**	9.1 U	**190**
Fluorene	ug/kg	**74**	0.60 U	**7.1 J**	**62**	9.1 U	**100**
Indeno(1,2,3-cd)pyrene	ug/kg	**770**	**30**	**31**	**370**	9.1 U	**45**
Naphthalene	ug/kg	**110 J**	0.92 U	**8.0**	**21 J**	9.1 U	**46**
Phenanthrene	ug/kg	**940**	**48**	**80**	**490**	9.1 U	**250**
Pyrene	ug/kg	**2300**	**93**	**90**	**1700**	9.1 U	**160**
Metals							
Aluminum	mg/kg	**5100**	**6200**	**7200**	**3500 J**	**5680**	**2310**
Antimony	mg/kg	**0.15 J**	0.13 UJ	**0.59 J**	**0.15 J**	**0.78 J**	6.4 U
Arsenic	mg/kg	**6.0**	**6.1**	**7.0**	**5.7**	**17.7**	**2.9**
Barium	mg/kg	**66**	**95**	**59 J**	**32**	**389**	**17.8 J**
Beryllium	mg/kg	**0.38**	**0.36**	**0.61**	**0.27**	**0.97**	**0.099 J**
Cadmium	mg/kg	**0.23**	**0.26**	**0.25**	**0.20**	0.68 U	**0.10 J**

Table 3

Summary of Detections
Soil/Fill Samples - EU3
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-149**	**SS-150**	**SS-151**	**SS-153**	**TT-18**	**TT-18**
Sample ID:		**S-38443-052918-JC-095**	**S-38443-052918-JC-093**	**S-38443-051618-JC-073**	**S-38443-051718-JC-075**	**S-38443-100108-KMV-036**	**S-38443-100108-KMV-037**
Sample Date:		**5/29/2018**	**5/29/2018**	**5/16/2018**	**5/17/2018**	**10/1/2008**	**10/1/2008**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**5 ft BGS**	**12 ft BGS**
Parameters	**Units**						
Calcium	mg/kg	**88000**	**76000**	**37000**	**110000**	**5650**	**142000**
Chromium	mg/kg	**22**	**9.5**	**10**	**7.5**	**11.7**	**4.6**
Chromium III (trivalent)	mg/kg	**22**	**9.5**	**10**	**7.5**	-	-
Chromium VI (hexavalent)	mg/kg	**0.85 J**	1.4 U	0.27 U	0.26 U	-	-
Cobalt	mg/kg	**5.3**	**4.6**	**7.9**	**3.4**	**4.5 J**	**2.8 J**
Copper	mg/kg	**14**	**11**	**14**	**11**	**17.2**	**8.6**
Iron	mg/kg	**14000**	**14000**	**13000**	**10000**	**9890**	**6040**
Lead	mg/kg	**26**	**49**	**23 J**	**9.1**	**6.4 J**	**9.1 J**
Lead - coarse fraction	mg/kg	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-
Magnesium	mg/kg	**31000**	**30000**	**16000**	**43000**	**1290**	**53600**
Manganese	mg/kg	**580**	**390**	**690**	**370 J**	**84.9**	**297**
Mercury	mg/kg	**0.040 J**	**0.068 J**	**0.043 J**	**0.022 J**	0.14 U	0.11 U
Nickel	mg/kg	**13**	**11**	**11**	**9.1**	**8.8**	**7.4**
Potassium	mg/kg	**970**	**560**	**600**	**500**	**1070**	**365 J**
Selenium	mg/kg	**0.62 J**	**0.39 J**	**0.57 J**	**0.24 J**	**3.7 J**	26.6 U
Silver	mg/kg	**0.074 J**	**0.041 J**	**0.039 J**	**0.021 J**	1.4 U	1.1 U
Sodium	mg/kg	**110 J**	**110 J**	**78 J**	**120 J**	**130 J**	**177 J**
Thallium	mg/kg	**0.19**	**0.12 J**	**0.20 J**	**0.11 J**	**0.54**	0.11 U
Vanadium	mg/kg	**22**	**16**	**21**	**12**	**28.2**	**6.2**
Zinc	mg/kg	**48**	**58**	**60**	**31**	**10.3**	**23.2**
PCBs							
Aroclor-1242 (PCB-1242)	ug/kg	21 U	22 U	22 U	20 U	45 UJ	35 UJ
Aroclor-1254 (PCB-1254)	ug/kg	25 U	27 U	27 U	24 U	45 UJ	35 UJ
Pesticides							
4,4'-DDD	ug/kg	1.6 U	1.8 U	1.6 U	1.6 U	23 UJ	36 UJ
4,4'-DDE	ug/kg	1.7 U	1.8 U	1.7 U	1.7 U	23 U	36 U
4,4'-DDT	ug/kg	1.3 U	1.3 U	1.2 U	1.3 UJ	23 UJ	36 UJ
alpha-Chlordane	ug/kg	1.7 U	1.8 U	1.7 U	1.7 U	23 U	36 U
Dieldrin	ug/kg	1.2 U	1.3 U	1.2 U	1.2 U	23 U	36 U
Endosulfan II	ug/kg	1.6 U	1.8 U	1.6 U	1.6 U	23 U	36 U
gamma-BHC (lindane)	ug/kg	2.0 U	2.1 U	2.0 U	2.0 U	23 U	36 U
gamma-Chlordane	ug/kg	1.4 U	1.5 U	1.4 U	1.4 U	23 U	36 U
Heptachlor epoxide	ug/kg	1.6 U	1.7 U	1.6 U	1.6 U	23 U	36 U
Geotechnical							
Coarse sand	%	-	-	-	-	-	-
Fine sand	%	-	-	-	-	-	-
Fines	%	-	-	-	-	-	-
Gravel	%	-	-	-	-	-	-
Medium sand	%	-	-	-	-	-	-
Sand	%	-	-	-	-	-	-

Table 3

Summary of Detections
Soil/Fill Samples - EU3
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-149**	**SS-150**	**SS-151**	**SS-153**	**TT-18**	**TT-18**
Sample ID:		**S-38443-052918-JC-095**	**S-38443-052918-JC-093**	**S-38443-051618-JC-073**	**S-38443-051718-JC-075**	**S-38443-100108-KMV-036**	**S-38443-100108-KMV-037**
Sample Date:		**5/29/2018**	**5/29/2018**	**5/16/2018**	**5/17/2018**	**10/1/2008**	**10/1/2008**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**5 ft BGS**	**12 ft BGS**
Parameters	**Units**						
Sieve, #4	% passed	-	-	-	-	-	-
Sieve, #10	% passed	-	-	-	-	-	-
Sieve, #20	% passed	-	-	-	-	-	-
Sieve, #40	% passed	-	-	-	-	-	-
Sieve, #60	% passed	-	-	-	-	-	-
Sieve, #80	% passed	-	-	-	-	-	-
Sieve, #100	% passed	-	-	-	-	-	-
Sieve, #200	% passed	-	-	-	-	-	-
Sieve, 0.375 inch	% passed	-	-	-	-	-	-
Sieve, 0.75 inch	% passed	-	-	-	-	-	-
Sieve, 1 inch	% passed	-	-	-	-	-	-
Sieve, 1.5 inch	% passed	-	-	-	-	-	-
Sieve, 2 inch	% passed	-	-	-	-	-	-
Sieve, 3 inch	% passed	-	-	-	-	-	-
General Chemistry							
Cyanide (total)	mg/kg	0.21 U	0.19 U	0.23 U	0.21 U	0.68 U	**0.52 J**
Total solids	%	-	-	-	-	**73.2**	**94.1**

Notes
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 4

Summary of Detections
Soil/Fill Samples - EU4
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:							**BH146-18**	**BH147-18**	**BH148-18**	**BH149-18**
Sample ID:							**S-38443-051718-JC-082**	**S-38443-051718-JC-077**	**S-38443-051718-JC-079**	**S-38443-052918-JC-088**
Sample Date:							**5/17/2018**	**5/17/2018**	**5/17/2018**	**5/29/2018**
Sample Depth:							**13-15 ft BGS**	**12-14 ft BGS**	**6-8 ft BGS**	**10-12 ft BGS**
Parameters	**Units**	**Samples**	**Detects**	**Min Detect**	**Max Detect**	**Average (Detects)**				
Volatiles										
1,1,1-Trichloroethane	ug/kg	15	2	1	94	47.500	0.58 UJ	0.21 U	R	0.75 UJ
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	14	3	5.8	9.9	7.233	**9.9 J**	1.1 U	R	3.3 UJ
Acetone	ug/kg	14	1	81	81	81.000	**81 J**	6.1 U	R	19 UJ
Benzene	ug/kg	14	2	0.46	0.9	0.680	**0.90 J**	**0.46 J**	R	0.64 UJ
Cyclohexane	ug/kg	14	2	0.43	1.2	0.815	**1.2 J**	**0.43 J**	R	1.3 UJ
Ethylbenzene	ug/kg	12	1	0.78	0.78	0.780	0.68 UJ	**0.78 J**	R	R
Methyl cyclohexane	ug/kg	14	3	0.55	2	1.070	**2.0 J**	**0.66 J**	R	1.1 UJ
Tetrachloroethene	ug/kg	12	2	0.34	72	36.170	0.93 UJ	**0.34 J**	R	R
Toluene	ug/kg	12	3	1	1.8	1.333	**1.2 J**	**1.8 J**	R	R
Xylenes (total)	ug/kg	12	1	1.4	1.4	1.400	1.0 UJ	**1.4 J**	R	R
Semi-Volatiles										
2-Methylnaphthalene	ug/kg	15	12	6.4	240	49.933	0.94 U	**16**	**6.8 J**	**46**
Acenaphthene	ug/kg	15	5	4.4	250	92.040	1.4 U	**4.4 J**	1.2 U	0.87 U
Acenaphthylene	ug/kg	15	5	8.8	45	25.960	0.66 U	0.38 U	0.54 U	0.40 U
Acetophenone	ug/kg	15	1	25	25	25.000	21 U	12 U	17 U	13 U
Anthracene	ug/kg	15	10	7.3	480	108.390	1.5 U	**11**	1.2 U	**8.6**
Benzaldehyde	ug/kg	15	3	39	120	72.000	43 UJ	25 UJ	35 UJ	26 UJ
Benzo(a)anthracene	ug/kg	15	14	11	1200	251.000	**13**	**42**	0.97 U	**25**
Benzo(a)pyrene	ug/kg	15	14	8.7	1100	236.836	**10 J**	**36**	0.99 U	**27**
Benzo(b)fluoranthene	ug/kg	15	14	12	1300	312.929	**12 J**	**55**	0.91 U	**33**
Benzo(g,h,i)perylene	ug/kg	15	13	7.9	790	166.985	**7.9 J**	**26**	0.54 U	**23**
Benzo(k)fluoranthene	ug/kg	15	10	7.1	600	174.210	1.3 U	**17**	1.0 U	0.78 U
Biphenyl (1,1-Biphenyl)	ug/kg	15	1	25	25	25.000	32 U	18 U	26 U	20 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	15	5	78	4700	1038.000	96 U	55 U	**210**	**92**
Carbazole	ug/kg	15	4	22	400	144.000	36 U	21 U	29 U	22 U
Chrysene	ug/kg	15	14	12	1400	280.357	**13**	**47**	1.7 U	**38**
Dibenz(a,h)anthracene	ug/kg	15	8	6.2	180	66.650	1.2 U	**6.2 J**	1.0 U	0.76 U
Dibenzofuran	ug/kg	15	4	16	180	90.750	24 U	14 U	20 U	15 U
Di-n-butylphthalate (DBP)	ug/kg	15	3	26	250	100.667	41 U	**26 J**	34 U	25 U
Fluoranthene	ug/kg	15	14	19	3700	639.929	**24**	**87**	0.85 U	**46**
Fluorene	ug/kg	15	7	3.8	250	68.543	1.0 U	**3.8 J**	0.82 U	0.61 U
Indeno(1,2,3-cd)pyrene	ug/kg	15	11	5.5	610	162.136	0.66 U	**19**	0.54 U	0.40 U
Naphthalene	ug/kg	15	12	10	150	44.417	1.5 U	**10**	**13**	**24**
Phenanthrene	ug/kg	15	15	5.8	3400	445.320	**20**	**47**	**5.8 J**	**54**
Phenol	ug/kg	15	2	13	27	20.000	15 U	8.7 U	12 U	9.2 U
Pyrene	ug/kg	15	14	20	2900	532.571	**24**	**74**	0.68 U	**47**
Metals										
Aluminum	mg/kg	15	15	2400	15000	7167.333	**2400 J**	**2500 J**	**9200 J**	**5000**
Antimony	mg/kg	15	12	0.16	12	1.445	0.20 UJ	0.12 UJ	**1.1 J**	**0.34 J**
Arsenic	mg/kg	15	15	0.74	56	17.309	**0.74 J**	**5.0**	**56**	**15**
Barium	mg/kg	15	15	9.6	420	133.373	**9.6**	**16**	**160**	**110**
Beryllium	mg/kg	15	15	0.19	5.2	1.553	**0.23 J**	**0.19 J**	**5.1**	**0.96**

Table 4

Summary of Detections
Soil/Fill Samples - EU4
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:							**BH146-18**	**BH147-18**	**BH148-18**	**BH149-18**
Sample ID:							**S-38443-051718-JC-082**	**S-38443-051718-JC-077**	**S-38443-051718-JC-079**	**S-38443-052918-JC-088**
Sample Date:							**5/17/2018**	**5/17/2018**	**5/17/2018**	**5/29/2018**
Sample Depth:							**13-15 ft BGS**	**12-14 ft BGS**	**6-8 ft BGS**	**10-12 ft BGS**
Parameters	**Units**	**Samples**	**Detects**	**Min Detect**	**Max Detect**	**Average (Detects)**				
Cadmium	mg/kg	15	14	0.11	0.92	0.282	0.070 U	**0.13 J**	**0.21 J**	**0.15 J**
Calcium	mg/kg	15	15	5400	410000	79366.667	**410000**	**130000**	**5400**	**66000**
Chromium	mg/kg	15	15	2.9	21	12.387	**2.9**	**8.1**	**19**	**9.3**
Chromium III (trivalent)	mg/kg	13	13	2.1	21	12.392	**2.1**	**7.6**	**18**	**8.5**
Chromium VI (hexavalent)	mg/kg	13	9	0.51	1.3	0.838	**0.86 J**	**0.52 J**	**1.2**	**0.85 J**
Cobalt	mg/kg	15	15	0.77	27	8.245	**0.77**	**2.6**	**15**	**4.3**
Copper	mg/kg	15	15	3.5	92	29.400	**3.5**	**7.9**	**45**	**19**
Iron	mg/kg	15	15	1200	19000	12193.333	**1200**	**6700**	**9900**	**7900**
Lead	mg/kg	15	15	2.1	130	28.980	**2.1**	**4.2**	**19**	**12**
Lead - coarse fraction	mg/kg	1	1	33	33	33.000	-	-	-	-
Lead - fine fraction	mg/kg	1	1	50	50	50.000	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	1	1	36	36	36.000	-	-	-	-
Magnesium	mg/kg	15	15	1100	51000	17026.667	**1500**	**51000**	**1100**	**28000**
Manganese	mg/kg	15	15	37	620	279.333	**37 J**	**280 J**	**76 J**	**160**
Mercury	mg/kg	15	13	0.026	0.45	0.152	0.034 U	0.019 U	**0.35**	**0.067 J**
Nickel	mg/kg	15	15	7.5	51	19.940	**11**	**7.6**	**36**	**11**
Potassium	mg/kg	15	15	180	2200	909.600	**180 J**	**480**	**1500**	**880**
Selenium	mg/kg	15	14	0.15	10	2.306	**0.58 J**	**0.15 J**	**10**	**1.2**
Silver	mg/kg	15	11	0.032	1.9	0.246	0.036 U	0.022 U	**0.065 J**	**0.037 J**
Sodium	mg/kg	15	12	59	400	155.083	83 U	**140 J**	**270**	**150 J**
Thallium	mg/kg	15	13	0.083	1.5	0.530	0.078 U	**0.083 J**	**1.5**	**0.38**
Vanadium	mg/kg	15	15	9	70	27.927	**14**	**9.0**	**70**	**22**
Zinc	mg/kg	15	15	6.5	280	64.387	**6.5**	**24**	**31**	**28**
PCBs										
Aroclor-1248 (PCB-1248)	ug/kg	15	1	59	59	59.000	46 U	27 U	37 U	28 U
Aroclor-1254 (PCB-1254)	ug/kg	15	5	27	210	83.000	44 U	26 U	36 U	**37 J**
Pesticides										
4,4'-DDD	ug/kg	15	3	1.8	2.8	2.167	2.8 U	1.7 U	2.2 U	1.7 U
4,4'-DDE	ug/kg	15	1	8.3	8.3	8.300	2.8 U	1.7 U	2.2 U	1.7 U
4,4'-DDT	ug/kg	15	4	2.3	4.6	3.275	2.1 UJ	1.3 UJ	1.7 UJ	1.3 U
alpha-Chlordane	ug/kg	15	1	2.5	2.5	2.500	2.8 U	1.7 U	2.2 U	1.7 U
Endrin aldehyde	ug/kg	15	1	1.9	1.9	1.900	2.5 U	1.5 U	1.9 U	1.5 U
Endrin ketone	ug/kg	15	2	1.4	21	11.200	1.7 U	1.0 U	1.3 U	1.0 U
gamma-Chlordane	ug/kg	15	2	2.7	2.8	2.750	2.3 U	1.4 U	1.8 U	1.4 U
Geotechnical										
Coarse sand	%	1	1	6.9	6.9	6.900	-	-	-	-
Fine sand	%	1	1	20.2	20.2	20.200	-	-	-	-
Fines	%	1	1	14.4	14.4	14.400	-	-	-	-
Gravel	%	1	1	33.9	33.9	33.900	-	-	-	-
Medium sand	%	1	1	24.6	24.6	24.600	-	-	-	-
Sand	%	1	1	51.7	51.7	51.700	-	-	-	-
Sieve, #4	% passed	1	1	66.1	66.1	66.100	-	-	-	-

Table 4

Summary of Detections
Soil/Fill Samples - EU4
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:							**BH146-18**	**BH147-18**	**BH148-18**	**BH149-18**
Sample ID:							**S-38443-051718-JC-082**	**S-38443-051718-JC-077**	**S-38443-051718-JC-079**	**S-38443-052918-JC-088**
Sample Date:							**5/17/2018**	**5/17/2018**	**5/17/2018**	**5/29/2018**
Sample Depth:							**13-15 ft BGS**	**12-14 ft BGS**	**6-8 ft BGS**	**10-12 ft BGS**
Parameters	**Units**	**Samples**	**Detects**	**Min Detect**	**Max Detect**	**Average (Detects)**				
Sieve, #10	% passed	1	1	59.2	59.2	59.200	-	-	-	-
Sieve, #20	% passed	1	1	49.8	49.8	49.800	-	-	-	-
Sieve, #40	% passed	1	1	34.6	34.6	34.600	-	-	-	-
Sieve, #60	% passed	1	1	21.7	21.7	21.700	-	-	-	-
Sieve, #80	% passed	1	1	18.2	18.2	18.200	-	-	-	-
Sieve, #100	% passed	1	1	16.9	16.9	16.900	-	-	-	-
Sieve, #200	% passed	1	1	14.4	14.4	14.400	-	-	-	-
Sieve, 0.375 inch	% passed	1	1	71.8	71.8	71.800	-	-	-	-
Sieve, 0.75 inch	% passed	1	1	81.8	81.8	81.800	-	-	-	-
Sieve, 1 inch	% passed	1	1	100	100	100.000	-	-	-	-
Sieve, 1.5 inch	% passed	1	1	100	100	100.000	-	-	-	-
Sieve, 2 inch	% passed	1	1	100	100	100.000	-	-	-	-
Sieve, 3 inch	% passed	1	1	100	100	100.000	-	-	-	-
General Chemistry										
Cyanide (total)	mg/kg	15	6	0.22	1.3	0.623	**1.3**	0.22 U	0.29 U	0.20 U
Fraction organic carbon (FOC)	%	1	1	0.5	0.5	0.500	-	-	-	-
Total solids	%	2	2	80.1	91	85.550	-	-	-	-

Notes
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 4

Summary of Detections
Soil/Fill Samples - EU4
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH150-18**	**BH151-18**	**GP08-19**	**SS-138**	**SS-138**	**SS-139**	**SS-140**
Sample ID:		**S-38443-052918-JC-086**	**S-38443-052918-JC-090**	**S-38443-011519-JC-154**	**S-38443-051718-JC-080**	**S-38443-051718-JC-081**	**S-38443-051718-JC-076**	**S-38443-051718-JC-078**
Sample Date:		**5/29/2018**	**5/29/2018**	**1/15/2019**	**5/17/2018**	**5/17/2018**	**5/17/2018**	**5/17/2018**
Sample Depth:		**13-15 ft BGS**	**10-12 ft BGS**	**11.67-12.67 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.17-2.17 ft BGS**
						Duplicate		
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/kg	0.93 U	0.75 U	0.82 U	**1.0 J**	**94 J**	0.41 UJ	50 UJ
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	**5.8 J**	**6.0 J**	3.6 U	2.1 U	R	2.3 UJ	90 UJ
Acetone	ug/kg	24 U	19 U	21 U	5.0 U	R	5.5 UJ	170 UJ
Benzene	ug/kg	0.79 U	0.64 U	0.70 U	0.52 U	R	0.58 UJ	43 UJ
Cyclohexane	ug/kg	1.6 U	1.3 U	1.4 U	0.34 U	R	0.38 UJ	54 UJ
Ethylbenzene	ug/kg	1.2 U	0.96 U	1.0 U	0.44 UJ	R	R	63 UJ
Methyl cyclohexane	ug/kg	1.4 U	1.1 U	1.2 U	0.37 U	R	**0.55 J**	67 UJ
Tetrachloroethene	ug/kg	0.82 U	0.67 U	0.73 U	0.60 UJ	R	R	**72 J**
Toluene	ug/kg	0.87 U	0.71 U	**1.0 J**	0.55 UJ	R	R	43 UJ
Xylenes (total)	ug/kg	1.8 U	1.5 U	1.6 U	0.65 UJ	R	R	50 UJ
Semi-Volatiles								
2-Methylnaphthalene	ug/kg	**15**	**33**	-	**11**	**14**	**240**	**6.4 J**
Acenaphthene	ug/kg	0.93 U	**7.3 J**	-	1.2 U	1.3 U	0.85 U	1.1 U
Acenaphthylene	ug/kg	**21**	**30**	-	0.57 U	0.58 U	**8.8**	0.49 U
Acetophenone	ug/kg	13 U	13 U	-	18 U	18 U	**25 J**	15 U
Anthracene	ug/kg	**31**	**25**	-	1.3 U	**7.3 J**	**13**	1.1 U
Benzaldehyde	ug/kg	28 UJ	27 U	-	**57 J**	**120 J**	**39 J**	32 UJ
Benzo(a)anthracene	ug/kg	**110**	**150**	-	**11**	**27**	**65**	**14**
Benzo(a)pyrene	ug/kg	**120**	**140**	-	**8.7 J**	**27**	**55**	**12**
Benzo(b)fluoranthene	ug/kg	**180**	**200**	-	**15**	**38**	**94**	**20**
Benzo(g,h,i)perylene	ug/kg	**74**	**120**	-	**7.9 J**	**20**	**64**	**11**
Benzo(k)fluoranthene	ug/kg	**63**	**66**	-	1.1 U	**12**	**28**	**7.1 J**
Biphenyl (1,1-Biphenyl)	ug/kg	21 U	20 U	-	28 U	28 U	**25 J**	24 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	**78 J**	60 U	-	84 U	**110 J**	57 U	71 U
Carbazole	ug/kg	**24 J**	**22 J**	-	31 U	31 U	21 U	26 U
Chrysene	ug/kg	**140**	**180**	-	**12**	**28**	**97**	**17**
Dibenz(a,h)anthracene	ug/kg	**23**	**28**	-	1.1 U	1.1 U	**12**	0.92 U
Dibenzofuran	ug/kg	16 U	15 U	-	21 U	21 U	**67**	18 U
Di-n-butylphthalate (DBP)	ug/kg	27 U	26 U	-	36 U	36 U	**26 J**	**250**
Fluoranthene	ug/kg	**280**	**250**	-	**28 J**	**63 J**	**99**	**33**
Fluorene	ug/kg	**16**	0.62 U	-	0.87 U	0.87 U	**8.5**	0.74 U
Indeno(1,2,3-cd)pyrene	ug/kg	**68**	**94**	-	**5.5 J**	**13**	**32**	**7.0 J**
Naphthalene	ug/kg	1.0 U	**27**	-	**12**	**17**	**150**	**10**
Phenanthrene	ug/kg	**150**	**130**	-	**22**	**37**	**210**	**15**
Phenol	ug/kg	9.8 U	9.4 U	-	**27 J**	**13 J**	8.9 U	11 U
Pyrene	ug/kg	**240**	**260**	-	**25 J**	**57 J**	**100**	**29**
Metals								
Aluminum	mg/kg	**10000**	**6700**	-	**13000 J**	**15000 J**	**4800 J**	**7500 J**
Antimony	mg/kg	**0.22 J**	**0.24 J**	-	**0.66 J**	**0.82 J**	**0.23 J**	**12 J**
Arsenic	mg/kg	**9.0**	**8.6**	-	**31**	**33**	**7.4**	**50**
Barium	mg/kg	**79**	**74**	-	**270**	**420**	**54**	**420**
Beryllium	mg/kg	**0.64**	**0.49**	-	**4.4**	**5.2**	**0.51**	**3.2**

Table 4

Summary of Detections
Soil/Fill Samples - EU4
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH150-18**	**BH151-18**	**GP08-19**	**SS-138**	**SS-138**	**SS-139**	**SS-140**
Sample ID:		**S-38443-052918-JC-086**	**S-38443-052918-JC-090**	**S-38443-011519-JC-154**	**S-38443-051718-JC-080**	**S-38443-051718-JC-081**	**S-38443-051718-JC-076**	**S-38443-051718-JC-078**
Sample Date:		**5/29/2018**	**5/29/2018**	**1/15/2019**	**5/17/2018**	**5/17/2018**	**5/17/2018**	**5/17/2018**
Sample Depth:		**13-15 ft BGS**	**10-12 ft BGS**	**11.67-12.67 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.17-2.17 ft BGS**
						Duplicate		
Parameters	**Units**							
Cadmium	mg/kg	**0.19 J**	**0.26**	-	**0.20 J**	**0.30**	**0.32**	**0.29**
Calcium	mg/kg	**30000**	**31000**	-	**100000**	**73000**	**47000**	**52000**
Chromium	mg/kg	**15**	**12**	-	**15**	**16**	**10**	**17**
Chromium III (trivalent)	mg/kg	**15**	**12**	-	**14**	**15**	**9.9**	**17**
Chromium VI (hexavalent)	mg/kg	1.5 U	1.4 U	-	**1.3**	**1.1 J**	**0.51 J**	**0.54 J**
Cobalt	mg/kg	**7.6**	**6.5**	-	**12**	**16**	**5.2**	**27**
Copper	mg/kg	**20**	**19**	-	**44**	**54**	**16**	**35**
Iron	mg/kg	**19000**	**14000**	-	**11000**	**17000**	**11000**	**12000**
Lead	mg/kg	**30**	**40**	-	**25**	**35**	**20**	**25**
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-
Magnesium	mg/kg	**11000**	**13000**	-	**3700**	**8900**	**19000**	**21000**
Manganese	mg/kg	**350**	**620**	-	**130 J**	**230 J**	**320 J**	**280 J**
Mercury	mg/kg	**0.043 J**	**0.21**	-	**0.19**	**0.23**	**0.040 J**	**0.25**
Nickel	mg/kg	**14**	**12**	-	**29**	**34**	**12**	**51**
Potassium	mg/kg	**1000**	**870**	-	**1100**	**2200**	**590**	**1200**
Selenium	mg/kg	**1.4**	**0.96 J**	-	**5.3**	**5.3**	**0.43 J**	**4.0**
Silver	mg/kg	**0.054 J**	**0.081 J**	-	**0.092 J**	**0.14 J**	**0.051 J**	**0.085 J**
Sodium	mg/kg	**67 J**	**59 J**	-	**140 J**	**230 J**	**71 J**	**400**
Thallium	mg/kg	**0.28**	**0.16 J**	-	**0.95**	**1.3**	**0.13 J**	**0.96**
Vanadium	mg/kg	**26**	**20**	-	**56**	**61**	**15**	**38**
Zinc	mg/kg	**57**	**84**	-	**32**	**46**	**53**	**130**
PCBs								
Aroclor-1248 (PCB-1248)	ug/kg	29 U	27 U	-	39 U	39 U	27 U	33 U
Aroclor-1254 (PCB-1254)	ug/kg	**210**	**31 J**	-	38 U	37 U	25 U	32 U
Pesticides								
4,4'-DDD	ug/kg	1.8 U	1.7 U	-	2.5 U	**2.8 NJ**	**1.8 J**	2.1 U
4,4'-DDE	ug/kg	1.8 U	1.7 U	-	2.5 U	2.5 U	1.6 U	2.1 U
4,4'-DDT	ug/kg	**3.7 NJ**	1.3 U	-	1.9 UJ	1.8 UJ	**2.5 J**	1.6 UJ
alpha-Chlordane	ug/kg	1.8 U	1.7 U	-	2.5 U	2.4 U	1.6 U	2.1 U
Endrin aldehyde	ug/kg	**1.9 J**	1.5 U	-	2.2 U	2.1 U	1.4 U	1.8 U
Endrin ketone	ug/kg	1.1 U	1.0 U	-	1.5 U	1.4 U	0.96 U	1.2 U
gamma-Chlordane	ug/kg	1.5 U	1.4 U	-	2.0 U	2.0 U	1.3 U	1.7 U
Geotechnical								
Coarse sand	%	-	-	**6.9**	-	-	-	-
Fine sand	%	-	-	**20.2**	-	-	-	-
Fines	%	-	-	**14.4**	-	-	-	-
Gravel	%	-	-	**33.9**	-	-	-	-
Medium sand	%	-	-	**24.6**	-	-	-	-
Sand	%	-	-	**51.7**	-	-	-	-
Sieve, #4	% passed	-	-	**66.1**	-	-	-	-

Table 4

Summary of Detections
Soil/Fill Samples - EU4
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH150-18**	**BH151-18**	**GP08-19**	**SS-138**	**SS-138**	**SS-139**	**SS-140**
Sample ID:		**S-38443-052918-JC-086**	**S-38443-052918-JC-090**	**S-38443-011519-JC-154**	**S-38443-051718-JC-080**	**S-38443-051718-JC-081**	**S-38443-051718-JC-076**	**S-38443-051718-JC-078**
Sample Date:		**5/29/2018**	**5/29/2018**	**1/15/2019**	**5/17/2018**	**5/17/2018**	**5/17/2018**	**5/17/2018**
Sample Depth:		**13-15 ft BGS**	**10-12 ft BGS**	**11.67-12.67 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.17-2.17 ft BGS**
						Duplicate		
Parameters	**Units**							
Sieve, #10	% passed	-	-	**59.2**	-	-	-	-
Sieve, #20	% passed	-	-	**49.8**	-	-	-	-
Sieve, #40	% passed	-	-	**34.6**	-	-	-	-
Sieve, #60	% passed	-	-	**21.7**	-	-	-	-
Sieve, #80	% passed	-	-	**18.2**	-	-	-	-
Sieve, #100	% passed	-	-	**16.9**	-	-	-	-
Sieve, #200	% passed	-	-	**14.4**	-	-	-	-
Sieve, 0.375 inch	% passed	-	-	**71.8**	-	-	-	-
Sieve, 0.75 inch	% passed	-	-	**81.8**	-	-	-	-
Sieve, 1 inch	% passed	-	-	**100.0**	-	-	-	-
Sieve, 1.5 inch	% passed	-	-	**100.0**	-	-	-	-
Sieve, 2 inch	% passed	-	-	**100.0**	-	-	-	-
Sieve, 3 inch	% passed	-	-	**100.0**	-	-	-	-
General Chemistry								
Cyanide (total)	mg/kg	0.22 U	**0.22 J**	-	**0.79 J**	**0.51 J**	**0.67**	0.26 U
Fraction organic carbon (FOC)	%	-	-	**0.5**	-	-	-	-
Total solids	%	-	-	-	-	-	-	-

Notes
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 4

Summary of Detections
Soil/Fill Samples - EU4
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-142**	**SS-144**	**SS-145**	**TT-17**	**TT-17**
Sample ID:		**S-38443-052918-JC-085**	**S-38443-052918-JC-087**	**S-38443-052918-JC-089**	**S-38443-093008-KMV-034**	**S-38443-093008-KMV-035**
Sample Date:		**5/29/2018**	**5/29/2018**	**5/29/2018**	**9/30/2008**	**9/30/2008**
Sample Depth:		**0-2 ft BGS**	**0.17-2.17 ft BGS**	**0-2 ft BGS**	**5 ft BGS**	**14 ft BGS**
Parameters	**Units**					
Volatiles						
1,1,1-Trichloroethane	ug/kg	0.90 U	0.71 U	0.70 U	5.0 U	6.1 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	3.9 U	3.1 U	3.0 U	20 U	24 U
Acetone	ug/kg	23 U	18 U	18 U	20 U	24 U
Benzene	ug/kg	0.76 U	0.60 U	0.60 U	5.0 U	6.1 U
Cyclohexane	ug/kg	1.5 U	1.2 U	1.2 U	10 U	12 U
Ethylbenzene	ug/kg	1.1 U	0.90 U	0.90 U	5.0 U	6.1 U
Methyl cyclohexane	ug/kg	1.3 U	1.1 U	1.1 U	10 U	12 U
Tetrachloroethene	ug/kg	0.80 U	0.63 U	0.63 U	5.0 U	6.1 U
Toluene	ug/kg	0.84 U	0.66 U	0.66 U	5.0 U	6.1 U
Xylenes (total)	ug/kg	1.7 U	1.4 U	1.4 U	10 U	12 U
Semi-Volatiles						
2-Methylnaphthalene	ug/kg	2.3 U	**69**	**100**	7.3 U	**42**
Acenaphthene	ug/kg	3.5 U	0.87 U	**190**	**8.5**	**250**
Acenaphthylene	ug/kg	**25 J**	0.40 U	**45**	7.3 U	33 U
Acetophenone	ug/kg	50 U	13 U	31 U	110 U	500 U
Anthracene	ug/kg	**120**	0.90 U	**480**	**18**	**370**
Benzaldehyde	ug/kg	110 UJ	26 U	65 U	110 U	500 U
Benzo(a)anthracene	ug/kg	**660**	**13**	**1100**	**84**	**1200**
Benzo(a)pyrene	ug/kg	**690**	**11**	**1100**	**89**	**990**
Benzo(b)fluoranthene	ug/kg	**1000**	**14**	**1300**	**120**	**1300**
Benzo(g,h,i)perylene	ug/kg	**400**	0.40 U	**790**	**67**	**560**
Benzo(k)fluoranthene	ug/kg	**410**	0.78 U	**480**	**59**	**600**
Biphenyl (1,1-Biphenyl)	ug/kg	78 U	20 U	48 U	55 U	250 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	**4700**	59 U	140 U	55 U	250 U
Carbazole	ug/kg	87 U	22 U	**130 J**	55 U	**400**
Chrysene	ug/kg	**730**	**13**	**1100**	**110**	**1400**
Dibenz(a,h)anthracene	ug/kg	**130**	0.76 U	**180**	**14**	**140**
Dibenzofuran	ug/kg	59 U	**16 J**	**100 J**	55 U	**180 J**
Di-n-butylphthalate (DBP)	ug/kg	100 U	25 U	62 U	55 U	250 U
Fluoranthene	ug/kg	**1200**	**19**	**2900**	**230**	**3700**
Fluorene	ug/kg	**43**	0.61 U	**150**	**8.5**	**250**
Indeno(1,2,3-cd)pyrene	ug/kg	**350**	0.40 U	**610**	**55**	**530**
Naphthalene	ug/kg	**21 J**	**48**	**91**	7.3 U	**110**
Phenanthrene	ug/kg	**490**	**59**	**1900**	**140**	**3400**
Phenol	ug/kg	37 U	9.2 U	23 U	55 U	250 U
Pyrene	ug/kg	**1100**	**20**	**2400**	**180**	**2900**
Metals						
Aluminum	mg/kg	**7100**	**8300**	**6000**	**6830**	**3180**
Antimony	mg/kg	**0.56 J**	**0.16 J**	**0.36 J**	6.6 UJ	**0.65 J**
Arsenic	mg/kg	**7.3**	**10**	**8.9**	**6.8**	**10.9**
Barium	mg/kg	**91**	**50**	**96**	**78.0**	**73.0**
Beryllium	mg/kg	**0.51**	**0.58**	**0.59**	**0.33 J**	**0.36 J**

Table 4

Summary of Detections
Soil/Fill Samples - EU4
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-142**	**SS-144**	**SS-145**	**TT-17**	**TT-17**
Sample ID:		**S-38443-052918-JC-085**	**S-38443-052918-JC-087**	**S-38443-052918-JC-089**	**S-38443-093008-KMV-034**	**S-38443-093008-KMV-035**
Sample Date:		**5/29/2018**	**5/29/2018**	**5/29/2018**	**9/30/2008**	**9/30/2008**
Sample Depth:		**0-2 ft BGS**	**0.17-2.17 ft BGS**	**0-2 ft BGS**	**5 ft BGS**	**14 ft BGS**
Parameters	**Units**					
Cadmium	mg/kg	**0.92**	**0.16 J**	**0.53**	**0.18 J**	**0.11 J**
Calcium	mg/kg	**51000**	**53000**	**64000**	**50600 J**	**27500 J**
Chromium	mg/kg	**21**	**11**	**11**	**10.4**	**8.1**
Chromium III (trivalent)	mg/kg	**21**	**11**	**10**	-	-
Chromium VI (hexavalent)	mg/kg	0.28 U	0.28 U	**0.66 J**	-	-
Cobalt	mg/kg	**5.6**	**6.9**	**5.3**	**6.3**	**2.6 J**
Copper	mg/kg	**92**	**17**	**35**	**12.3**	**21.3**
Iron	mg/kg	**14000**	**18000**	**15000**	**14200**	**12000**
Lead	mg/kg	**57**	**13**	**130**	**14.9 J**	**7.5 J**
Lead - coarse fraction	mg/kg	**33 J**	-	-	-	-
Lead - fine fraction	mg/kg	**50**	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	**36**	-	-	-	-
Magnesium	mg/kg	**21000**	**26000**	**23000**	**13800**	**13400**
Manganese	mg/kg	**370**	**410**	**410**	**441 J**	**76.0 J**
Mercury	mg/kg	**0.026 J**	**0.029 J**	**0.45**	**0.040 J**	**0.054 J**
Nickel	mg/kg	**33**	**18**	**12**	**11.0**	**7.5**
Potassium	mg/kg	**790**	**940**	**790**	**725 J**	**399 J**
Selenium	mg/kg	**0.53 J**	**0.52 J**	**0.81 J**	27.5 U	**1.1 J**
Silver	mg/kg	**1.9**	**0.032 J**	**0.17 J**	1.1 U	1.2 U
Sodium	mg/kg	**160 J**	**79 J**	**95 J**	550 U	625 U
Thallium	mg/kg	**0.18 J**	**0.30**	**0.21**	0.15 U	**0.46**
Vanadium	mg/kg	**19**	**20**	**17**	**18.1 J**	**13.8 J**
Zinc	mg/kg	**74**	**53**	**280**	**40.0 J**	**27.3 J**
PCBs						
Aroclor-1248 (PCB-1248)	ug/kg	27 U	29 U	28 U	36 UJ	**59**
Aroclor-1254 (PCB-1254)	ug/kg	**110**	28 U	**27 J**	36 UJ	41 U
Pesticides						
4,4'-DDD	ug/kg	1.7 U	**1.9 J**	17 U	190 UJ	42 UJ
4,4'-DDE	ug/kg	1.7 U	**8.3**	17 U	190 U	42 U
4,4'-DDT	ug/kg	**2.3 NJ**	**4.6 J**	13 U	190 UJ	42 UJ
alpha-Chlordane	ug/kg	1.7 U	**2.5 J**	17 U	190 U	42 U
Endrin aldehyde	ug/kg	1.5 U	1.6 U	15 U	190 U	42 U
Endrin ketone	ug/kg	**1.4 NJ**	1.1 U	**21 J**	190 U	42 U
gamma-Chlordane	ug/kg	**2.8 J**	**2.7 J**	14 U	190 U	42 U
Geotechnical						
Coarse sand	%	-	-	-	-	-
Fine sand	%	-	-	-	-	-
Fines	%	-	-	-	-	-
Gravel	%	-	-	-	-	-
Medium sand	%	-	-	-	-	-
Sand	%	-	-	-	-	-
Sieve, #4	% passed	-	-	-	-	-

Table 4

Summary of Detections
Soil/Fill Samples - EU4
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-142**	**SS-144**	**SS-145**	**TT-17**	**TT-17**
Sample ID:		**S-38443-052918-JC-085**	**S-38443-052918-JC-087**	**S-38443-052918-JC-089**	**S-38443-093008-KMV-034**	**S-38443-093008-KMV-035**
Sample Date:		**5/29/2018**	**5/29/2018**	**5/29/2018**	**9/30/2008**	**9/30/2008**
Sample Depth:		**0-2 ft BGS**	**0.17-2.17 ft BGS**	**0-2 ft BGS**	**5 ft BGS**	**14 ft BGS**
Parameters	**Units**					
Sieve, #10	% passed	-	-	-	-	-
Sieve, #20	% passed	-	-	-	-	-
Sieve, #40	% passed	-	-	-	-	-
Sieve, #60	% passed	-	-	-	-	-
Sieve, #80	% passed	-	-	-	-	-
Sieve, #100	% passed	-	-	-	-	-
Sieve, #200	% passed	-	-	-	-	-
Sieve, 0.375 inch	% passed	-	-	-	-	-
Sieve, 0.75 inch	% passed	-	-	-	-	-
Sieve, 1 inch	% passed	-	-	-	-	-
Sieve, 1.5 inch	% passed	-	-	-	-	-
Sieve, 2 inch	% passed	-	-	-	-	-
Sieve, 3 inch	% passed	-	-	-	-	-
General Chemistry						
Cyanide (total)	mg/kg	0.22 U	0.21 U	0.22 U	0.55 U	**0.25 J**
Fraction organic carbon (FOC)	%	-	-	-	-	-
Total solids	%	-	-	-	**91.0**	**80.1**

Notes
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 5

Summary of Detections
Soil/Fill Samples - EU5, 6, 7, 8
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:							**BH122-18**	**BH125-18**	**BH126-18**	**BH127-18**
Sample ID:							**S-38443-053118-JC-115**	**S-38443-053018-JC-106**	**S-38443-053018-JC-101**	**S-38443-053018-JC-110**
Sample Date:							**5/31/2018**	**5/30/2018**	**5/30/2018**	**5/30/2018**
Sample Depth:							**6-8 ft BGS**	**7-9 ft BGS**	**10-12 ft BGS**	**7-9 ft BGS**
Parameters	**Units**	**Samples**	**Detects**	**Min Detect**	**Max Detect**	**Average (Detects)**				
Volatiles										
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	23	8	3.2	38	13.238	**8.6 J**	**24**	**3.2 J**	3.4 U
Acetone	ug/kg	23	12	19	250	81.667	**34**	**110 J**	**19 J**	20 U
Carbon disulfide	ug/kg	23	1	2.8	2.8	2.800	**2.8 J**	1.1 U	1.1 U	1.1 U
cis-1,2-Dichloroethene	ug/kg	23	1	5	5	5.000	0.59 U	0.59 U	0.59 U	**5.0**
Cyclohexane	ug/kg	23	1	4.8	4.8	4.800	1.2 U	1.3 U	1.3 U	1.3 U
Ethylbenzene	ug/kg	23	1	3.6	3.6	3.600	0.95 U	0.96 U	0.95 U	0.99 U
Methyl cyclohexane	ug/kg	23	1	6.7	6.7	6.700	1.1 U	1.1 U	1.1 U	1.2 U
Tetrachloroethene	ug/kg	23	4	1.6	8.4	4.375	0.66 U	0.67 U	0.66 U	0.69 U
Toluene	ug/kg	23	3	1.4	8.9	3.933	0.70 U	0.71 U	0.70 U	0.73 U
Xylenes (total)	ug/kg	23	1	16	16	16.000	1.4 U	1.4 U	1.4 U	1.5 U
Semi-Volatiles										
2-Methylnaphthalene	ug/kg	23	21	12	1200	183.857	**27**	**78**	**110**	0.59 U
Acenaphthene	ug/kg	23	12	6.8	170	73.400	0.83 U	**35**	**89**	0.90 U
Acenaphthylene	ug/kg	23	17	4.5	95	39.882	**9.0**	**26**	**47**	0.41 U
Acetophenone	ug/kg	23	5	12	95	43.400	**41 J**	12 U	12 U	13 U
Anthracene	ug/kg	23	19	4.5	580	124.032	**8.3**	**89**	**190**	0.92 U
Benzaldehyde	ug/kg	23	3	32	94	55.667	**41 J**	26 U	**32 J**	27 U
Benzo(a)anthracene	ug/kg	23	22	8	1900	355.286	**26**	**390**	**760**	**8.0**
Benzo(a)pyrene	ug/kg	23	23	5.1	1600	371.757	**40**	**370**	**790**	**10**
Benzo(b)fluoranthene	ug/kg	23	23	8.5	2100	522.852	**65**	**550**	**1200**	**13**
Benzo(g,h,i)perylene	ug/kg	23	20	6.3	640	219.415	**36**	**180**	**330**	**6.3 J**
Benzo(k)fluoranthene	ug/kg	23	16	24	840	269.875	**24**	**190**	**390**	0.80 U
Biphenyl (1,1-Biphenyl)	ug/kg	23	5	22	130	65.000	**25 J**	19 U	**22 J**	20 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	23	6	60	320	140.167	**180**	**67 J**	56 U	60 U
Carbazole	ug/kg	23	10	37	320	110.600	21 U	**50 J**	**98**	22 U
Chrysene	ug/kg	23	21	8.3	1900	395.871	**35**	**420**	**830**	**8.3**
Dibenz(a,h)anthracene	ug/kg	23	10	22	200	89.700	0.72 U	**68**	**87**	0.78 U
Dibenzofuran	ug/kg	23	13	21	290	79.615	14 U	**36 J**	**63**	15 U
Di-n-butylphthalate (DBP)	ug/kg	23	3	30	53	41.000	**30 J**	25 U	24 U	26 U
Fluoranthene	ug/kg	23	23	9.8	3800	781.687	**59**	**720**	**1700**	**12**
Fluorene	ug/kg	23	14	5.1	220	72.929	0.58 U	**35**	**74**	0.63 U
Hexachlorobenzene	ug/kg	23	1	36	36	36.000	2.3 U	**36**	2.3 U	2.5 U
Indeno(1,2,3-cd)pyrene	ug/kg	23	20	5.4	650	190.820	**28**	**190**	**290**	**5.4 J**
Isophorone	ug/kg	23	1	110	110	110.000	13 U	14 U	13 U	14 U
Naphthalene	ug/kg	23	20	9.5	740	127.025	**120**	**66**	**300**	0.97 U
Pentachlorophenol	ug/kg	23	1	860	860	860.000	63 U	66 U	**860**	68 U
Phenanthrene	ug/kg	23	23	6.3	2100	493.161	**49**	**430**	**910**	**6.3 J**
Pyrene	ug/kg	23	23	10	2900	640.565	**58**	**540**	**1300**	**10**
Metals										
Aluminum	mg/kg	23	23	1600	12000	6169.565	**3800**	**9300**	**5800**	**12000**
Antimony	mg/kg	23	20	0.16	5.4	0.667	**0.49**	**5.4 J**	**0.75 J**	**0.20 J**
Arsenic	mg/kg	23	23	4.2	59	12.417	**5.4**	**19**	**9.2**	**11**

Table 5

Summary of Detections
Soil/Fill Samples - EU5, 6, 7, 8
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:							**BH122-18**	**BH125-18**	**BH126-18**	**BH127-18**
Sample ID:							**S-38443-053118-JC-115**	**S-38443-053018-JC-106**	**S-38443-053018-JC-101**	**S-38443-053018-JC-110**
Sample Date:							**5/31/2018**	**5/30/2018**	**5/30/2018**	**5/30/2018**
Sample Depth:							**6-8 ft BGS**	**7-9 ft BGS**	**10-12 ft BGS**	**7-9 ft BGS**
Parameters	**Units**	**Samples**	**Detects**	**Min Detect**	**Max Detect**	**Average (Detects)**				
Barium	mg/kg	23	23	41	1000	142.130	**110**	**1000**	**150**	**97**
Beryllium	mg/kg	23	23	0.19	4.1	0.881	**0.19**	**0.79**	**0.58**	**0.66**
Cadmium	mg/kg	23	22	0.057	0.74	0.357	**0.45**	**0.72**	**0.70**	**0.33**
Calcium	mg/kg	23	23	1900	320000	73617.391	**67000**	**47000**	**77000**	**10000**
Chromium	mg/kg	23	23	4.7	140	24.822	**77**	**38**	**11**	**18**
Chromium III (trivalent)	mg/kg	23	23	3.9	140	24.204	**77**	**38**	**9.9**	**18**
Chromium VI (hexavalent)	mg/kg	23	9	0.29	7.5	1.536	0.27 U	0.28 U	**0.91**	0.57 U
Cobalt	mg/kg	23	23	2.4	12	5.639	**5.2**	**7.9**	**4.3**	**8.9**
Copper	mg/kg	23	23	9.9	960	77.691	**240**	**120**	**41**	**23**
Iron	mg/kg	23	23	4300	23000	12578.261	**13000**	**21000**	**9800**	**23000**
Lead	mg/kg	23	23	1.7	270	52.539	**130**	**140**	**270**	**17**
Lead - coarse fraction	mg/kg	2	2	23	41	32.000	-	-	-	-
Lead - fine fraction	mg/kg	3	3	31	310	127.667	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	2	2	27	37	32.000	-	-	-	-
Magnesium	mg/kg	23	23	340	55000	25389.565	**44000**	**21000**	**27000**	**6500**
Manganese	mg/kg	23	23	31	1000	382.478	**330**	**690**	**250**	**610**
Mercury	mg/kg	23	20	0.024	0.5	0.127	**0.024 J**	**0.086 J**	**0.44**	**0.049 J**
Nickel	mg/kg	23	23	8.2	700	64.948	**470**	**27**	**11**	**20**
Potassium	mg/kg	23	23	200	2200	788.696	**450**	**1100**	**640**	**990**
Selenium	mg/kg	23	22	0.24	6.3	1.163	**0.28 J**	**0.82 J**	**0.60 J**	**0.53 J**
Silver	mg/kg	23	21	0.031	0.52	0.106	**0.28**	**0.14 J**	**0.16 J**	**0.090 J**
Sodium	mg/kg	23	23	68	350	160.000	**150 J**	**150 J**	**290**	**78 J**
Thallium	mg/kg	23	22	0.063	2.7	0.357	**0.12 J**	**0.25**	**0.18 J**	**0.20**
Vanadium	mg/kg	23	23	10	45	23.696	**10**	**27**	**16**	**30**
Zinc	mg/kg	23	23	4.9	260	91.613	**210**	**240**	**240**	**67**
PCBs										
Aroclor-1248 (PCB-1248)	ug/kg	23	2	74	400	237.000	**74**	28 U	26 U	28 U
Aroclor-1254 (PCB-1254)	ug/kg	23	4	54	160	94.750	26 U	27 U	25 U	27 U
Aroclor-1260 (PCB-1260)	ug/kg	23	1	74	74	74.000	25 U	26 U	24 U	26 U
Pesticides										
4,4'-DDD	ug/kg	23	2	3.7	14	8.850	1.7 U	1.6 U	34 U	1.8 U
4,4'-DDE	ug/kg	23	1	2.5	2.5	2.500	**2.5 J**	1.7 U	34 U	1.8 U
4,4'-DDT	ug/kg	23	4	1.2	3.1	1.900	1.3 U	**3.1 J**	26 U	1.3 U
alpha-Chlordane	ug/kg	23	1	2.3	2.3	2.300	**2.3 J**	1.7 U	34 U	1.8 U
beta-BHC	ug/kg	23	2	1.9	4.5	3.200	2.0 U	**1.9 NJ**	39 U	**4.5 J**
Endosulfan II	ug/kg	23	1	3.7	3.7	3.700	1.7 U	1.6 U	34 U	1.8 U
Endrin aldehyde	ug/kg	23	1	1.8	1.8	1.800	1.5 U	1.5 U	30 U	1.6 U
Endrin ketone	ug/kg	23	1	3.6	3.6	3.600	1.0 U	0.99 U	20 U	1.1 U
Heptachlor epoxide	ug/kg	23	1	2.1	2.1	2.100	**2.1 J**	1.6 U	33 U	1.7 U
General Chemistry										
Cyanide (total)	mg/kg	23	12	0.22	0.83	0.390	**0.25 J**	0.19 U	0.20 U	0.23 U

Table 5

Summary of Detections
Soil/Fill Samples - EU5, 6, 7, 8
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:							**BH122-18**	**BH125-18**	**BH126-18**	**BH127-18**
Sample ID:							**S-38443-053118-JC-115**	**S-38443-053018-JC-106**	**S-38443-053018-JC-101**	**S-38443-053018-JC-110**
Sample Date:							**5/31/2018**	**5/30/2018**	**5/30/2018**	**5/30/2018**
Sample Depth:							**6-8 ft BGS**	**7-9 ft BGS**	**10-12 ft BGS**	**7-9 ft BGS**
Parameters	**Units**	**Samples**	**Detects**	**Min Detect**	**Max Detect**	**Average (Detects)**				

Notes
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 5

Summary of Detections
Soil/Fill Samples - EU5, 6, 7, 8
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH128-18**	**BH129-18**	**BH130-18**	**BH132-18**	**BH133-18**	**SS-98**	**SS-99**
Sample ID:		**S-38443-053018-JC-108**	**S-38443-053018-JC-103**	**S-38443-053018-JC-112**	**S-38443-053118-JC-119**	**S-38443-053118-JC-117**	**S-38443-053118-JC-114**	**SS-38443-110218-JC-099**
Sample Date:		**5/30/2018**	**5/30/2018**	**5/30/2018**	**5/31/2018**	**5/31/2018**	**5/31/2018**	**11/2/2018**
Sample Depth:		**13-15 ft BGS**	**13-15 ft BGS**	**9.5-11.5 ft BGS**	**6.5-8.5 ft BGS**	**7-9 ft BGS**	**0.17-2.17 ft BGS**	**0.25-2.25 ft BGS**
Parameters	**Units**							
Volatiles								
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	**16 J**	**5.7 J**	3.6 U	**38 J**	3.0 U	**5.1 J**	3.5 U
Acetone	ug/kg	**140 J**	**31 J**	21 U	**250 J**	18 U	**28**	21 U
Carbon disulfide	ug/kg	1.7 UJ	1.0 U	1.2 U	3.6 UJ	0.99 U	1.1 U	1.2 U
cis-1,2-Dichloroethene	ug/kg	0.94 UJ	0.57 U	0.66 U	2.0 UJ	0.56 U	0.59 U	0.65 U
Cyclohexane	ug/kg	2.0 UJ	1.2 U	1.4 U	**4.8 J**	1.2 U	1.2 U	1.4 U
Ethylbenzene	ug/kg	1.5 UJ	0.91 U	1.1 U	**3.6 J**	0.89 U	0.95 U	1.0 U
Methyl cyclohexane	ug/kg	1.8 UJ	1.1 U	1.2 U	**6.7 J**	1.0 U	1.1 U	1.2 U
Tetrachloroethene	ug/kg	1.1 UJ	0.64 U	**8.4**	**4.0 J**	0.62 U	0.66 U	0.72 U
Toluene	ug/kg	**1.4 J**	0.67 U	0.78 U	**8.9 J**	0.66 U	0.70 U	0.77 U
Xylenes (total)	ug/kg	2.3 UJ	1.4 U	1.6 U	**16 J**	1.4 U	1.4 U	1.6 U
Semi-Volatiles								
2-Methylnaphthalene	ug/kg	**130**	**520**	**12**	**750 J**	0.57 U	**36**	**19**
Acenaphthene	ug/kg	**130**	**84**	0.88 U	1.7 UJ	0.87 U	**6.8 J**	3.3 U
Acenaphthylene	ug/kg	**92**	**38**	**4.5 J**	0.79 UJ	0.40 U	**21**	**8.0 J**
Acetophenone	ug/kg	42 U	57 U	13 U	25 UJ	13 U	**12 J**	13 U
Anthracene	ug/kg	**340**	**160**	**4.5 J**	1.8 UJ	0.89 U	**15**	**19**
Benzaldehyde	ug/kg	87 U	120 U	27 U	52 UJ	26 U	26 U	27 U
Benzo(a)anthracene	ug/kg	**750**	**190**	**24**	**41 J**	0.72 U	**47**	**160**
Benzo(a)pyrene	ug/kg	**840**	**200**	**27**	**27 J**	**5.1 J**	**70**	**180**
Benzo(b)fluoranthene	ug/kg	**950**	**230**	**41**	**43 J**	**8.5**	**94**	**280**
Benzo(g,h,i)perylene	ug/kg	**480**	**160**	**18**	0.79 UJ	0.40 U	**150**	**170**
Benzo(k)fluoranthene	ug/kg	**470**	**82**	0.79 U	1.5 UJ	0.78 U	**38**	**90**
Biphenyl (1,1-Biphenyl)	ug/kg	64 U	89 U	20 U	**130 J**	19 U	19 U	20 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	190 U	270 U	59 U	110 UJ	58 U	57 U	**60 J**
Carbazole	ug/kg	**230**	99 U	22 U	43 UJ	22 U	21 U	22 U
Chrysene	ug/kg	**780**	**240**	**33**	**40 J**	1.3 U	**61**	**190**
Dibenz(a,h)anthracene	ug/kg	**120**	3.4 U	0.76 U	1.5 UJ	0.75 U	0.74 U	**40**
Dibenzofuran	ug/kg	**150 J**	68 U	15 U	29 UJ	15 U	15 U	15 U
Di-n-butylphthalate (DBP)	ug/kg	83 U	110 U	25 U	49 UJ	25 U	25 U	**40 J**
Fluoranthene	ug/kg	**2300**	**560**	**50**	**72 J**	**9.8**	**84**	**310**
Fluorene	ug/kg	**210**	**100**	0.61 U	1.2 UJ	0.60 U	**7.9**	**5.1 J**
Hexachlorobenzene	ug/kg	7.9 U	11 U	2.4 U	4.7 UJ	2.4 U	2.4 U	3.3 U
Indeno(1,2,3-cd)pyrene	ug/kg	**450**	**92**	**17**	**21 J**	0.40 U	**38**	**140**
Isophorone	ug/kg	**110 J**	63 U	14 U	27 UJ	14 U	13 U	14 U
Naphthalene	ug/kg	**200**	**140**	0.95 U	**110 J**	0.94 U	**34**	**9.5 J**
Pentachlorophenol	ug/kg	220 U	300 U	67 U	130 UJ	66 U	65 U	67 U
Phenanthrene	ug/kg	**1500**	**1300**	**23**	**210 J**	**6.4 J**	**54**	**93**
Pyrene	ug/kg	**1600**	**930**	**44**	**77 J**	**11**	**94**	**250**
Metals								
Aluminum	mg/kg	**4000**	**3400**	**8000**	**11000 J**	**8000**	**5500**	**5200**
Antimony	mg/kg	**0.28 J**	**0.16 J**	**0.32 J**	0.25 UJ	**0.35**	**1.2**	**0.24 J**
Arsenic	mg/kg	**4.2**	**5.0**	**9.6**	**6.5 J**	**7.8**	**5.2**	**9.8**

Table 5

Summary of Detections
Soil/Fill Samples - EU5, 6, 7, 8
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH128-18**	**BH129-18**	**BH130-18**	**BH132-18**	**BH133-18**	**SS-98**	**SS-99**
Sample ID:		**S-38443-053018-JC-108**	**S-38443-053018-JC-103**	**S-38443-053018-JC-112**	**S-38443-053118-JC-119**	**S-38443-053118-JC-117**	**S-38443-053118-JC-114**	**SS-38443-110218-JC-099**
Sample Date:		**5/30/2018**	**5/30/2018**	**5/30/2018**	**5/31/2018**	**5/31/2018**	**5/31/2018**	**11/2/2018**
Sample Depth:		**13-15 ft BGS**	**13-15 ft BGS**	**9.5-11.5 ft BGS**	**6.5-8.5 ft BGS**	**7-9 ft BGS**	**0.17-2.17 ft BGS**	**0.25-2.25 ft BGS**
Parameters	**Units**							
Barium	mg/kg	**48**	**45**	**100**	**75 J**	**81**	**77**	**72**
Beryllium	mg/kg	**0.46**	**0.23**	**0.45**	**0.57 J**	**0.47**	**0.25**	**0.71**
Cadmium	mg/kg	**0.093 J**	**0.23**	**0.32**	**0.13 J**	**0.50**	**0.52**	**0.32**
Calcium	mg/kg	**320000**	**120000**	**84000**	**120000 J**	**44000**	**57000**	**99000**
Chromium	mg/kg	**5.8**	**7.0**	**15**	**63 J**	**20**	**140**	**11**
Chromium III (trivalent)	mg/kg	**5.3**	**6.0**	**15**	**55 J**	**20**	**140**	**11**
Chromium VI (hexavalent)	mg/kg	**0.43 J**	**0.96**	0.28 U	**7.5 J**	0.28 U	0.27 U	0.28 U
Cobalt	mg/kg	**2.4**	**3.0**	**7.3**	**3.7 J**	**6.2**	**5.6**	**4.2**
Copper	mg/kg	**9.9**	**15**	**17**	**14 J**	**33**	**960**	**13**
Iron	mg/kg	**4300**	**7600**	**16000**	**11000 J**	**21000**	**18000**	**16000**
Lead	mg/kg	**21**	**35**	**21**	**15 J**	**36**	**120**	**19 J**
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-
Magnesium	mg/kg	**13000**	**51000**	**25000**	**26000 J**	**19000**	**47000**	**38000**
Manganese	mg/kg	**110**	**220**	**1000**	**290 J**	**570**	**420**	**400 J**
Mercury	mg/kg	**0.075 J**	**0.045 J**	**0.079 J**	0.045 UJ	**0.23**	**0.047 J**	**0.037 J**
Nickel	mg/kg	**13**	**9.3**	**13**	**13 J**	**24**	**700**	**11**
Potassium	mg/kg	**970**	**530**	**1000**	**380 J**	**880**	**600**	**680**
Selenium	mg/kg	**0.36 J**	**0.24 J**	**0.54 J**	0.24 UJ	**0.32 J**	**0.29 J**	**0.84 J**
Silver	mg/kg	**0.031 J**	**0.040 J**	**0.075 J**	**0.078 J**	**0.052 J**	**0.52**	**0.045 J**
Sodium	mg/kg	**240 J**	**350**	**140 J**	**110 J**	**92 J**	**140 J**	**140 J**
Thallium	mg/kg	**0.11 J**	**0.10 J**	**0.17 J**	0.095 UJ	**0.15 J**	**0.080 J**	**0.34**
Vanadium	mg/kg	**26**	**25**	**22**	**24 J**	**23**	**14**	**17**
Zinc	mg/kg	**33**	**46**	**70**	**93 J**	**110**	**260**	**55**
PCBs								
Aroclor-1248 (PCB-1248)	ug/kg	37 U	25 U	28 U	52 UJ	28 U	27 U	**400**
Aroclor-1254 (PCB-1254)	ug/kg	36 U	**54**	27 U	50 UJ	27 U	26 U	27 U
Aroclor-1260 (PCB-1260)	ug/kg	34 U	23 U	26 U	48 UJ	26 U	25 U	**74**
Pesticides								
4,4'-DDD	ug/kg	2.2 U	32 U	1.6 U	3.5 UJ	1.7 U	1.7 U	1.7 U
4,4'-DDE	ug/kg	2.3 U	33 U	1.7 U	3.5 UJ	1.8 U	1.7 U	1.7 U
4,4'-DDT	ug/kg	1.7 U	24 U	**1.3 J**	2.7 UJ	1.3 U	1.3 U	1.3 U
alpha-Chlordane	ug/kg	2.3 U	32 U	1.7 U	3.5 UJ	1.8 U	1.7 U	1.7 U
beta-BHC	ug/kg	2.6 U	37 U	1.9 U	4.1 UJ	2.0 U	2.0 U	2.0 U
Endosulfan II	ug/kg	2.2 U	32 U	1.6 U	3.5 UJ	1.7 U	1.7 U	1.7 U
Endrin aldehyde	ug/kg	2.0 U	28 U	1.5 U	3.1 UJ	1.5 U	1.5 U	1.5 U
Endrin ketone	ug/kg	1.3 U	19 U	0.99 U	2.1 UJ	1.0 U	1.0 U	1.0 U
Heptachlor epoxide	ug/kg	2.2 U	31 U	1.6 U	3.4 UJ	1.7 U	1.6 U	1.6 U
General Chemistry								
Cyanide (total)	mg/kg	**0.83**	0.19 U	0.23 U	**0.48 J**	**0.22 J**	**0.26 J**	0.22 U

Table 5

Summary of Detections
Soil/Fill Samples - EU5, 6, 7, 8
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH128-18**	**BH129-18**	**BH130-18**	**BH132-18**	**BH133-18**	**SS-98**	**SS-99**
Sample ID:		**S-38443-053018-JC-108**	**S-38443-053018-JC-103**	**S-38443-053018-JC-112**	**S-38443-053118-JC-119**	**S-38443-053118-JC-117**	**S-38443-053118-JC-114**	**SS-38443-110218-JC-099**
Sample Date:		**5/30/2018**	**5/30/2018**	**5/30/2018**	**5/31/2018**	**5/31/2018**	**5/31/2018**	**11/2/2018**
Sample Depth:		**13-15 ft BGS**	**13-15 ft BGS**	**9.5-11.5 ft BGS**	**6.5-8.5 ft BGS**	**7-9 ft BGS**	**0.17-2.17 ft BGS**	**0.25-2.25 ft BGS**
Parameters	**Units**							

Notes
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 5

Summary of Detections
Soil/Fill Samples - EU5, 6, 7, 8
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-100**	**SS-100**	**SS-101**	**SS-102**	**SS-102**	**SS-103**	**SS-104**
Sample ID:		**SS-38443-110218-JC-100**	**SS-38443-110218-JC-121**	**SS-38443-110218-JC-101**	**S-38443-053018-JC-104**	**S-38443-053018-JC-105**	**S-38443-053018-JC-102**	**S-38443-053018-JC-100**
Sample Date:		**11/2/2018**	**11/2/2018**	**11/2/2018**	**5/30/2018**	**5/30/2018**	**5/30/2018**	**5/30/2018**
Sample Depth:		**0.17-2.17 ft BGS**	**0.17-2.17 ft BGS**	**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
			Duplicate			**Duplicate**		
Parameters	**Units**							
Volatiles								
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	4.7 U	4.0 U	3.5 U	5.9 UJ	3.4 U	4.2 U	4.5 U
Acetone	ug/kg	28 U	24 U	20 U	35 UJ	20 U	25 U	26 U
Carbon disulfide	ug/kg	1.5 U	1.3 U	1.1 U	1.9 UJ	1.1 U	1.4 U	1.5 U
cis-1,2-Dichloroethene	ug/kg	0.96 U	0.93 U	0.63 U	1.1 UJ	0.61 U	0.77 U	0.82 U
Cyclohexane	ug/kg	1.8 U	1.5 U	1.3 U	2.3 UJ	1.3 U	1.6 U	1.7 U
Ethylbenzene	ug/kg	1.4 U	1.2 U	1.0 U	1.7 UJ	0.99 U	1.2 U	1.3 U
Methyl cyclohexane	ug/kg	1.6 U	1.4 U	1.2 U	2.0 UJ	1.2 U	1.5 U	1.5 U
Tetrachloroethene	ug/kg	0.96 U	0.82 U	0.71 U	1.2 UJ	0.69 U	**1.6 J**	0.92 U
Toluene	ug/kg	1.0 U	0.87 U	0.75 U	1.3 UJ	0.73 U	0.92 U	0.97 U
Xylenes (total)	ug/kg	2.1 U	1.8 U	1.5 U	2.6 UJ	1.5 U	1.9 U	2.0 U
Semi-Volatiles								
2-Methylnaphthalene	ug/kg	**95**	**180**	**39 J**	**100**	**45**	**66**	**62**
Acenaphthene	ug/kg	**20**	**27**	**170**	**98**	**99**	**55**	1.1 U
Acenaphthylene	ug/kg	**39**	**36**	18 U	**60**	**69**	**93**	**26**
Acetophenone	ug/kg	13 U	**48 J**	50 U	29 U	12 U	13 U	15 U
Anthracene	ug/kg	**80**	**87**	**580**	**160**	**180**	**78**	**47**
Benzaldehyde	ug/kg	28 U	26 U	110 U	61 U	24 U	28 U	32 U
Benzo(a)anthracene	ug/kg	**330**	**340**	**1900**	**680**	**670**	**190**	**160**
Benzo(a)pyrene	ug/kg	**280**	**310**	**1400**	**1600**	**950**	**210**	**180**
Benzo(b)fluoranthene	ug/kg	**440**	**470**	**1900**	**2100**	**1400**	**270**	**270**
Benzo(g,h,i)perylene	ug/kg	**240**	**260**	**640**	**560**	**300**	**87**	**100**
Benzo(k)fluoranthene	ug/kg	**150**	**200**	**840**	**670**	**430**	**100**	**84**
Biphenyl (1,1-Biphenyl)	ug/kg	20 U	20 U	78 U	45 U	18 U	21 U	24 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	**74 J**	**140**	230 U	130 U	54 U	62 U	72 U
Carbazole	ug/kg	**38 J**	**47 J**	**320**	**88 J**	**100**	**37 J**	27 U
Chrysene	ug/kg	**350**	**370**	**1900**	**790**	**720**	**190**	**190**
Dibenz(a,h)anthracene	ug/kg	**56**	**69**	**200**	**160**	**75**	**22**	0.93 U
Dibenzofuran	ug/kg	**32 J**	**47 J**	**100 J**	**56 J**	**44 J**	**71**	**21 J**
Di-n-butylphthalate (DBP)	ug/kg	26 U	25 U	100 U	58 U	23 U	27 U	31 U
Fluoranthene	ug/kg	**700**	**800**	**3800**	**1700**	**1800**	**490**	**470**
Fluorene	ug/kg	**27**	**32**	**220**	**69**	**72**	**63**	**22**
Hexachlorobenzene	ug/kg	3.4 U	3.3 U	13 U	5.5 U	2.2 U	2.5 U	2.9 U
Indeno(1,2,3-cd)pyrene	ug/kg	**190**	**200**	**650**	**570**	**300**	**76**	**87**
Isophorone	ug/kg	14 U	14 U	55 U	32 U	13 U	14 U	17 U
Naphthalene	ug/kg	**91**	**160**	**52 J**	**69**	**33**	**42**	**60**
Pentachlorophenol	ug/kg	70 U	67 U	260 U	150 U	62 U	70 U	81 U
Phenanthrene	ug/kg	**360**	**460**	**2100**	**540**	**610**	**360**	**240**
Pyrene	ug/kg	**570**	**610**	**2900**	**1500**	**1400**	**360**	**340**
Metals								
Aluminum	mg/kg	**5700**	**3800**	**5100**	**4800**	**4800**	**9400**	**9300**
Antimony	mg/kg	**0.55 J**	**0.23 J**	**0.21 J**	**0.23 J**	**0.25 J**	**0.56 J**	**0.66 J**
Arsenic	mg/kg	**8.7**	**6.7**	**5.9**	**7.2**	**6.9**	**20**	**33**

Table 5

Summary of Detections
Soil/Fill Samples - EU5, 6, 7, 8
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-100**	**SS-100**	**SS-101**	**SS-102**	**SS-102**	**SS-103**	**SS-104**
Sample ID:		**SS-38443-110218-JC-100**	**SS-38443-110218-JC-121**	**SS-38443-110218-JC-101**	**S-38443-053018-JC-104**	**S-38443-053018-JC-105**	**S-38443-053018-JC-102**	**S-38443-053018-JC-100**
Sample Date:		**11/2/2018**	**11/2/2018**	**11/2/2018**	**5/30/2018**	**5/30/2018**	**5/30/2018**	**5/30/2018**
Sample Depth:		**0.17-2.17 ft BGS**	**0.17-2.17 ft BGS**	**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
			Duplicate			**Duplicate**		
Parameters	**Units**							
Barium	mg/kg	**89**	**41**	**52**	**58**	**62**	**230**	**230**
Beryllium	mg/kg	**0.61**	**0.37**	**0.50**	**0.41**	**0.38**	**1.9**	**4.1**
Cadmium	mg/kg	**0.74**	**0.25**	**0.25**	**0.44**	**0.31**	**0.30**	**0.44**
Calcium	mg/kg	**56000**	**90000**	**61000**	**72000**	**90000**	**100000**	**32000**
Chromium	mg/kg	**15**	**16**	**33**	**9.3**	**14**	**12**	**18**
Chromium III (trivalent)	mg/kg	**15**	**16**	**33**	**8.8**	**14**	**12**	**16**
Chromium VI (hexavalent)	mg/kg	0.29 U	0.28 U	0.28 U	**0.44 J**	0.26 U	0.29 U	**1.5**
Cobalt	mg/kg	**5.2**	**3.9**	**4.2**	**4.1**	**4.6**	**7.7**	**12**
Copper	mg/kg	**45**	**15**	**17**	**19**	**20**	**37**	**40**
Iron	mg/kg	**14000**	**11000**	**12000**	**10000**	**13000**	**11000**	**12000**
Lead	mg/kg	**91 J**	**17 J**	**27 J**	**38**	**51**	**45**	**53**
Lead - coarse fraction	mg/kg	**23 J**	-	-	-	-	**41 J**	-
Lead - fine fraction	mg/kg	**42**	-	-	-	-	**31**	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	**27**	-	-	-	-	**37**	-
Magnesium	mg/kg	**24000**	**33000**	**24000**	**30000**	**32000**	**27000**	**12000**
Manganese	mg/kg	**540 J**	**430 J**	**950 J**	**230**	**460**	**280**	**170**
Mercury	mg/kg	**0.083 J**	0.024 U	**0.033 J**	**0.057 J**	**0.043 J**	**0.15**	**0.38**
Nickel	mg/kg	**21**	**15**	**14**	**11**	**11**	**18**	**28**
Potassium	mg/kg	**790**	**610**	**620**	**600**	**600**	**1100**	**1500**
Selenium	mg/kg	**0.66 J**	**0.51 J**	**0.43 J**	**0.71 J**	**0.73 J**	**3.0**	**4.7**
Silver	mg/kg	**0.097 J**	**0.046 J**	**0.046 J**	**0.051 J**	**0.051 J**	**0.20 J**	**0.082 J**
Sodium	mg/kg	**87 J**	**100 J**	**75 J**	**120 J**	**130 J**	**230**	**240**
Thallium	mg/kg	**0.19 J**	**0.14 J**	**0.14 J**	**0.17**	**0.15 J**	**0.59**	**1.1**
Vanadium	mg/kg	**19**	**21**	**45**	**18**	**26**	**31**	**42**
Zinc	mg/kg	**140**	**61**	**86**	**58**	**67**	**79**	**50**
PCBs								
Aroclor-1248 (PCB-1248)	ug/kg	30 U	28 U	27 U	26 U	25 U	29 U	33 U
Aroclor-1254 (PCB-1254)	ug/kg	**160**	27 U	26 U	25 U	**78**	**87**	32 U
Aroclor-1260 (PCB-1260)	ug/kg	28 U	26 U	25 U	24 U	23 U	26 U	30 U
Pesticides								
4,4'-DDD	ug/kg	1.8 U	1.7 U	1.6 U	16 U	16 U	35 U	2.1 U
4,4'-DDE	ug/kg	1.8 U	1.7 U	1.7 U	16 U	16 U	36 U	2.1 U
4,4'-DDT	ug/kg	**2.0 J**	1.3 U	**1.2 J**	12 U	12 U	27 U	1.6 U
alpha-Chlordane	ug/kg	1.8 U	1.7 U	1.7 U	16 U	16 U	36 U	2.1 U
beta-BHC	ug/kg	2.1 U	2.0 U	1.9 U	19 U	18 U	41 U	2.4 U
Endosulfan II	ug/kg	1.8 U	1.7 U	1.6 U	16 U	16 U	35 U	2.1 U
Endrin aldehyde	ug/kg	1.6 U	1.5 U	1.4 U	14 U	14 U	31 U	1.8 U
Endrin ketone	ug/kg	1.1 U	1.0 U	0.98 U	9.6 U	9.5 U	21 U	1.2 U
Heptachlor epoxide	ug/kg	1.7 U	1.6 U	1.6 U	16 U	15 U	34 U	2.0 U
General Chemistry								
Cyanide (total)	mg/kg	**0.35 J**	**0.24 J**	0.23 U	0.18 U	0.18 U	**0.26 J**	**0.28 J**

Table 5

Summary of Detections
Soil/Fill Samples - EU5, 6, 7, 8
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-100**	**SS-100**	**SS-101**	**SS-102**	**SS-102**	**SS-103**	**SS-104**
Sample ID:		**SS-38443-110218-JC-100**	**SS-38443-110218-JC-121**	**SS-38443-110218-JC-101**	**S-38443-053018-JC-104**	**S-38443-053018-JC-105**	**S-38443-053018-JC-102**	**S-38443-053018-JC-100**
Sample Date:		**11/2/2018**	**11/2/2018**	**11/2/2018**	**5/30/2018**	**5/30/2018**	**5/30/2018**	**5/30/2018**
Sample Depth:		**0.17-2.17 ft BGS**	**0.17-2.17 ft BGS**	**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
			Duplicate			**Duplicate**		
Parameters	**Units**							

Notes
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 5

Summary of Detections
Soil/Fill Samples - EU5, 6, 7, 8
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-109**	**SS-112**	**SS-116**	**SS-120**	**SS-123**	**SS-158-AS**	**SS-159-AS**
Sample ID:		**S-38443-053018-JC-109**	**S-38443-053018-JC-107**	**S-38443-053018-JC-111**	**S-38443-053118-JC-118**	**S-38443-053118-JC-116**	**SS-38443-110218-JC-158**	**SS-38443-110218-JC-159**
Sample Date:		**5/30/2018**	**5/30/2018**	**5/30/2018**	**5/31/2018**	**5/31/2018**	**11/2/2018**	**11/2/2018**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.3-2.3 ft BGS**	**0.25-0.75 ft BGS**	**0.25-0.75 ft BGS**
Parameters	**Units**							
Volatiles								
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	**5.3 J**	4.4 U	6.4 U	6.8 UJ	3.7 U	-	-
Acetone	ug/kg	**35 J**	**57**	**180 J**	**67 J**	**29**	-	-
Carbon disulfide	ug/kg	1.5 UJ	1.4 U	2.1 U	2.2 UJ	1.2 U	-	-
cis-1,2-Dichloroethene	ug/kg	0.85 UJ	0.80 U	1.2 U	1.3 UJ	0.68 U	-	-
Cyclohexane	ug/kg	1.8 UJ	1.7 U	2.5 U	2.6 UJ	1.4 U	-	-
Ethylbenzene	ug/kg	1.4 UJ	1.3 U	1.9 U	2.0 UJ	1.1 U	-	-
Methyl cyclohexane	ug/kg	1.6 UJ	1.5 U	2.2 U	2.4 UJ	1.3 U	-	-
Tetrachloroethene	ug/kg	0.95 UJ	0.90 U	**3.5 J**	1.4 UJ	0.76 U	-	-
Toluene	ug/kg	1.0 UJ	0.95 U	1.4 U	**1.5 J**	0.80 U	-	-
Xylenes (total)	ug/kg	2.1 UJ	1.9 U	2.9 U	3.1 UJ	1.6 U	-	-
Semi-Volatiles								
2-Methylnaphthalene	ug/kg	**45**	**13**	**300**	**1200**	**34**	-	-
Acenaphthene	ug/kg	1.1 U	0.95 U	0.87 U	1.8 U	**67**	-	-
Acenaphthylene	ug/kg	**5.4 J**	0.44 U	**9.1**	0.81 U	**95**	-	-
Acetophenone	ug/kg	**21 J**	14 U	13 U	**95 J**	26 U	-	-
Anthracene	ug/kg	**9.8 J**	0.98 U	**15**	**44**	**250**	-	-
Benzaldehyde	ug/kg	35 U	29 U	26 U	**94 J**	54 U	-	-
Benzo(a)anthracene	ug/kg	**37**	**9.3**	**34**	**130**	**940**	-	-
Benzo(a)pyrene	ug/kg	**40**	**6.3 J**	**35**	**100**	**880**	-	-
Benzo(b)fluoranthene	ug/kg	**67**	**9.1**	**55**	**170**	**1400**	-	-
Benzo(g,h,i)perylene	ug/kg	**26**	0.44 U	**25**	**100**	**520**	-	-
Benzo(k)fluoranthene	ug/kg	1.0 U	0.85 U	0.78 U	**50**	**510**	-	-
Biphenyl (1,1-Biphenyl)	ug/kg	26 U	21 U	**28 J**	**120**	40 U	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	77 U	64 U	58 U	**320**	120 U	-	-
Carbazole	ug/kg	29 U	24 U	22 U	44 U	**98 J**	-	-
Chrysene	ug/kg	**48**	1.4 U	**48**	**170**	**900**	-	-
Dibenz(a,h)anthracene	ug/kg	0.99 U	0.83 U	0.76 U	1.5 U	1.6 U	-	-
Dibenzofuran	ug/kg	20 U	16 U	**63**	**290**	**62 J**	-	-
Di-n-butylphthalate (DBP)	ug/kg	33 U	28 U	25 U	**53 J**	52 U	-	-
Fluoranthene	ug/kg	**100**	**22**	**60**	**160**	**2000**	-	-
Fluorene	ug/kg	0.80 U	0.67 U	0.61 U	1.2 U	**84**	-	-
Hexachlorobenzene	ug/kg	3.2 U	2.6 U	2.4 U	4.9 U	4.9 U	-	-
Indeno(1,2,3-cd)pyrene	ug/kg	**25**	0.44 U	0.40 U	**47**	**400**	-	-
Isophorone	ug/kg	18 U	15 U	14 U	28 U	28 U	-	-
Naphthalene	ug/kg	**51**	**15**	**210**	**740**	**38**	-	-
Pentachlorophenol	ug/kg	87 U	73 U	67 U	130 U	140 U	-	-
Phenanthrene	ug/kg	**62**	**19**	**140**	**670**	**1200**	-	-
Pyrene	ug/kg	**80**	**19**	**50**	**190**	**1800**	-	-
Metals								
Aluminum	mg/kg	**9800**	**4600**	**1900**	**1600**	**5100**	-	-
Antimony	mg/kg	**0.60 J**	**0.45 J**	0.14 UJ	0.14 U	**0.20 J**	-	-
Arsenic	mg/kg	**59**	**28**	**5.5**	**6.6**	**5.4**	-	-

Table 5

Summary of Detections
Soil/Fill Samples - EU5, 6, 7, 8
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-109**	**SS-112**	**SS-116**	**SS-120**	**SS-123**	**SS-158-AS**	**SS-159-AS**
Sample ID:		**S-38443-053018-JC-109**	**S-38443-053018-JC-107**	**S-38443-053018-JC-111**	**S-38443-053118-JC-118**	**S-38443-053118-JC-116**	**SS-38443-110218-JC-158**	**SS-38443-110218-JC-159**
Sample Date:		**5/30/2018**	**5/30/2018**	**5/30/2018**	**5/31/2018**	**5/31/2018**	**11/2/2018**	**11/2/2018**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.3-2.3 ft BGS**	**0.25-0.75 ft BGS**	**0.25-0.75 ft BGS**
Parameters	**Units**							
Barium	mg/kg	**350**	**96**	**72**	**89**	**45**	-	-
Beryllium	mg/kg	**3.2**	**1.5**	**0.89**	**0.73**	**0.32**	-	-
Cadmium	mg/kg	**0.32**	**0.16 J**	0.047 U	**0.057 J**	**0.28**	-	-
Calcium	mg/kg	**11000**	**70000**	**1900**	**2300**	**62000**	-	-
Chromium	mg/kg	**16**	**11**	**5.1**	**4.7**	**11**	-	-
Chromium III (trivalent)	mg/kg	**16**	**11**	**4.8**	**3.9**	**11**	-	-
Chromium VI (hexavalent)	mg/kg	0.36 U	**0.90 J**	**0.29 J**	**0.89 J**	0.29 U	-	-
Cobalt	mg/kg	**9.3**	**7.8**	**4.8**	**3.8**	**3.6**	-	-
Copper	mg/kg	**38**	**24**	**17**	**15**	**14**	-	-
Iron	mg/kg	**15000**	**10000**	**4600**	**5000**	**11000**	-	-
Lead	mg/kg	**22**	**13**	**1.7**	**4.7**	**21**	-	-
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	**310**	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-
Magnesium	mg/kg	**3600**	**25000**	**340**	**520**	**55000**	-	-
Manganese	mg/kg	**91**	**210**	**31**	**45**	**470**	-	-
Mercury	mg/kg	**0.50**	**0.13**	**0.031 J**	0.021 U	**0.024 J**	-	-
Nickel	mg/kg	**21**	**17**	**8.2**	**9.2**	**9.1**	-	-
Potassium	mg/kg	**2200**	**730**	**200 J**	**250**	**720**	-	-
Selenium	mg/kg	**6.3**	**2.6**	**0.43 J**	**0.37 J**	**0.33 J**	-	-
Silver	mg/kg	**0.064 J**	**0.038 J**	0.024 U	0.024 U	**0.031 J**	-	-
Sodium	mg/kg	**290**	**140 J**	**100 J**	**68 J**	**220**	-	-
Thallium	mg/kg	**2.7**	**0.69**	**0.063 J**	**0.13 J**	**0.10 J**	-	-
Vanadium	mg/kg	**44**	**28**	**11**	**10**	**16**	-	-
Zinc	mg/kg	**36**	**34**	**4.9**	**9.2**	**58**	-	-
PCBs								
Aroclor-1248 (PCB-1248)	ug/kg	37 U	31 U	28 U	27 U	30 U	-	-
Aroclor-1254 (PCB-1254)	ug/kg	35 U	30 U	27 U	26 U	29 U	-	-
Aroclor-1260 (PCB-1260)	ug/kg	34 U	28 U	26 U	25 U	27 U	-	-
Pesticides								
4,4'-DDD	ug/kg	23 U	1.9 U	**3.7 J**	**14**	17 U	-	-
4,4'-DDE	ug/kg	23 U	1.9 U	1.8 U	1.8 U	18 U	-	-
4,4'-DDT	ug/kg	17 U	1.4 U	1.3 U	1.3 U	13 U	-	-
alpha-Chlordane	ug/kg	23 U	1.9 U	1.8 U	1.8 U	17 U	-	-
beta-BHC	ug/kg	26 U	2.2 U	2.0 U	2.0 U	20 U	-	-
Endosulfan II	ug/kg	23 U	1.9 U	1.7 U	**3.7 J**	17 U	-	-
Endrin aldehyde	ug/kg	20 U	1.7 U	1.5 U	**1.8 NJ**	15 U	-	-
Endrin ketone	ug/kg	14 U	1.1 U	1.0 U	**3.6 J**	10 U	-	-
Heptachlor epoxide	ug/kg	22 U	1.8 U	1.7 U	1.7 U	17 U	-	-
General Chemistry								
Cyanide (total)	mg/kg	0.31 U	0.24 U	**0.48 J**	**0.79**	**0.24 J**	-	-

Table 5

Summary of Detections
Soil/Fill Samples - EU5, 6, 7, 8
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-109**	**SS-112**	**SS-116**	**SS-120**	**SS-123**	**SS-158-AS**	**SS-159-AS**
Sample ID:		**S-38443-053018-JC-109**	**S-38443-053018-JC-107**	**S-38443-053018-JC-111**	**S-38443-053118-JC-118**	**S-38443-053118-JC-116**	**SS-38443-110218-JC-158**	**SS-38443-110218-JC-159**
Sample Date:		**5/30/2018**	**5/30/2018**	**5/30/2018**	**5/31/2018**	**5/31/2018**	**11/2/2018**	**11/2/2018**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.3-2.3 ft BGS**	**0.25-0.75 ft BGS**	**0.25-0.75 ft BGS**
Parameters	**Units**							

Notes
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 5

Summary of Detections
Soil/Fill Samples - EU5, 6, 7, 8
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-160-AS**
Sample ID:		**SS-38443-110218-JC-160**
Sample Date:		**11/2/2018**
Sample Depth:		**0.17-0.67 ft BGS**
Parameters	**Units**	
Volatiles		
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	-
Acetone	ug/kg	-
Carbon disulfide	ug/kg	-
cis-1,2-Dichloroethene	ug/kg	-
Cyclohexane	ug/kg	-
Ethylbenzene	ug/kg	-
Methyl cyclohexane	ug/kg	-
Tetrachloroethene	ug/kg	-
Toluene	ug/kg	-
Xylenes (total)	ug/kg	-
Semi-Volatiles		
2-Methylnaphthalene	ug/kg	-
Acenaphthene	ug/kg	-
Acenaphthylene	ug/kg	-
Acetophenone	ug/kg	-
Anthracene	ug/kg	-
Benzaldehyde	ug/kg	-
Benzo(a)anthracene	ug/kg	-
Benzo(a)pyrene	ug/kg	-
Benzo(b)fluoranthene	ug/kg	-
Benzo(g,h,i)perylene	ug/kg	-
Benzo(k)fluoranthene	ug/kg	-
Biphenyl (1,1-Biphenyl)	ug/kg	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	-
Carbazole	ug/kg	-
Chrysene	ug/kg	-
Dibenz(a,h)anthracene	ug/kg	-
Dibenzofuran	ug/kg	-
Di-n-butylphthalate (DBP)	ug/kg	-
Fluoranthene	ug/kg	-
Fluorene	ug/kg	-
Hexachlorobenzene	ug/kg	-
Indeno(1,2,3-cd)pyrene	ug/kg	-
Isophorone	ug/kg	-
Naphthalene	ug/kg	-
Pentachlorophenol	ug/kg	-
Phenanthrene	ug/kg	-
Pyrene	ug/kg	-
Metals		
Aluminum	mg/kg	-
Antimony	mg/kg	-
Arsenic	mg/kg	-

Table 5

Summary of Detections
Soil/Fill Samples - EU5, 6, 7, 8
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-160-AS**
Sample ID:		**SS-38443-110218-JC-160**
Sample Date:		**11/2/2018**
Sample Depth:		**0.17-0.67 ft BGS**
Parameters	**Units**	
Barium	mg/kg	-
Beryllium	mg/kg	-
Cadmium	mg/kg	-
Calcium	mg/kg	-
Chromium	mg/kg	-
Chromium III (trivalent)	mg/kg	-
Chromium VI (hexavalent)	mg/kg	-
Cobalt	mg/kg	-
Copper	mg/kg	-
Iron	mg/kg	-
Lead	mg/kg	-
Lead - coarse fraction	mg/kg	-
Lead - fine fraction	mg/kg	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-
Magnesium	mg/kg	-
Manganese	mg/kg	-
Mercury	mg/kg	-
Nickel	mg/kg	-
Potassium	mg/kg	-
Selenium	mg/kg	-
Silver	mg/kg	-
Sodium	mg/kg	-
Thallium	mg/kg	-
Vanadium	mg/kg	-
Zinc	mg/kg	-
PCBs		
Aroclor-1248 (PCB-1248)	ug/kg	-
Aroclor-1254 (PCB-1254)	ug/kg	-
Aroclor-1260 (PCB-1260)	ug/kg	-
Pesticides		
4,4'-DDD	ug/kg	-
4,4'-DDE	ug/kg	-
4,4'-DDT	ug/kg	-
alpha-Chlordane	ug/kg	-
beta-BHC	ug/kg	-
Endosulfan II	ug/kg	-
Endrin aldehyde	ug/kg	-
Endrin ketone	ug/kg	-
Heptachlor epoxide	ug/kg	-
General Chemistry		
Cyanide (total)	mg/kg	-

Table 5

Summary of Detections
Soil/Fill Samples - EU5, 6, 7, 8
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-160-AS**
Sample ID:		**SS-38443-110218-JC-160**
Sample Date:		**11/2/2018**
Sample Depth:		**0.17-0.67 ft BGS**
Parameters	**Units**	

Notes
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 6

Summary of Detections
Soil/Fill Samples - EU9
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:							**BH120-18**	**BH121-18**	**SS-86**	**SS-87**
Sample ID:							**S-38443-011918-JC-055**	**S-38443-011918-JC-054**	**S-38443-110217-BW-015**	**SS-38443-103118-JC-087**
Sample Date:							**1/19/2018**	**1/19/2018**	**11/2/2017**	**10/31/2018**
Sample Depth:							**8-10 ft BGS**	**8-10 ft BGS**	**0-2 ft BGS**	**0.5-2.5 ft BGS**
Parameters	**Units**	**Samples**	**Detects**	**Min Detect**	**Max Detect**	**Average (Detects)**				
Volatiles										
1,1-Dichloroethane	ug/kg	12	1	4.3	4.3	4.300	0.30 U	0.35 U	0.47 U	0.70 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	12	4	1.4	41	13.075	**1.4 J**	**3.3 J**	1.8 U	3.6 U
Acetone	ug/kg	12	2	22	180	101.000	8.9 U	11 U	4.3 U	21 U
Ethylbenzene	ug/kg	12	1	2.4	2.4	2.400	0.24 U	0.28 U	0.38 U	1.1 U
Isopropyl benzene	ug/kg	12	1	1.1	1.1	1.100	0.18 U	0.21 U	0.28 U	0.84 U
Toluene	ug/kg	12	1	2.6	2.6	2.600	0.31 U	0.36 U	0.48 U	0.78 U
Xylenes (total)	ug/kg	12	1	12	12	12.000	0.36 U	0.42 U	0.57 U	1.6 U
Semi-Volatiles										
2-Methylnaphthalene	ug/kg	12	10	9.7	2900	471.370	**17**	**15**	**490**	**39**
2-Methylphenol	ug/kg	12	1	13	13	13.000	13 U	13 U	670 U	71 U
Acenaphthene	ug/kg	12	7	7.1	5300	810.300	0.89 U	**48**	**5300**	**87**
Acenaphthylene	ug/kg	12	6	4.4	60	27.333	0.41 U	**4.4 J**	21 U	**37**
Acetophenone	ug/kg	12	1	96	96	96.000	11 U	11 U	560 U	25 U
Anthracene	ug/kg	12	11	5.3	12000	1204.627	**5.3 J**	**170**	**12000**	**210**
Benzaldehyde	ug/kg	12	1	95	95	95.000	14 U	14 U	730 U	53 U
Benzo(a)anthracene	ug/kg	12	11	34	27000	2819.818	**34**	**520**	**27000**	**960**
Benzo(a)pyrene	ug/kg	12	11	35	17000	1886.818	**47**	**350**	**17000**	**910**
Benzo(b)fluoranthene	ug/kg	12	12	56	25000	2600.833	**84**	**540**	**25000**	**1400**
Benzo(g,h,i)perylene	ug/kg	12	12	20	8700	972.417	**48**	**160**	**8700**	**350**
Benzo(k)fluoranthene	ug/kg	12	11	17	9500	1072.727	**27**	**260**	**9500**	**580**
Biphenyl (1,1-Biphenyl)	ug/kg	12	2	6	64	35.000	4.1 U	**6.0 J**	210 U	39 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	12	2	57	8600	4328.500	22 U	**57 J**	1100 U	120 U
Carbazole	ug/kg	12	7	23	8400	1292.429	32 U	**60**	**8400**	**180**
Chrysene	ug/kg	12	11	40	29000	3019.000	**49**	**480**	**29000**	**1000**
Dibenz(a,h)anthracene	ug/kg	12	9	8.3	2700	361.589	**14**	**54**	**2700**	**100**
Dibenzofuran	ug/kg	12	6	26	2700	532.500	0.78 U	**26 J**	**2700 J**	**41 J**
Fluoranthene	ug/kg	12	12	57	65000	6182.417	**57**	**1200**	**65000**	**1900**
Fluorene	ug/kg	12	7	45	5300	876.286	0.62 U	**45**	**5300**	**62**
Indeno(1,2,3-cd)pyrene	ug/kg	12	11	14	7600	881.636	**38**	**160**	**7600**	**350**
Isophorone	ug/kg	12	1	44	44	44.000	15 U	16 U	790 U	28 U
Naphthalene	ug/kg	12	10	11	760	208.700	**11**	**20**	**500**	**30 J**
Phenanthrene	ug/kg	12	12	41	52000	4834.500	**41**	**530**	**52000**	**980**
Pyrene	ug/kg	12	12	51	50000	4923.250	**51**	**910**	**50000**	**1900**
Metals										
Aluminum	mg/kg	12	12	3100	9300	5697.500	**9300**	**6500**	**6500 J**	**6500**
Antimony	mg/kg	12	11	0.21	3	0.692	**0.31 J**	**3.0**	**0.55 J**	**0.21 J**
Arsenic	mg/kg	12	12	4.1	16	9.058	**12**	**16**	**15**	**6.7**
Barium	mg/kg	12	12	35.8	280	115.567	**100**	**280**	**130**	**55**
Beryllium	mg/kg	12	11	0.37	2.3	0.849	**0.55**	**2.3**	**1.2**	**0.52**
Cadmium	mg/kg	12	12	0.21	2.6	0.736	**0.38**	**2.6**	**0.35**	**0.24**
Calcium	mg/kg	12	12	46000	140000	91166.667	**46000**	**94000**	**58000**	**96000**
Chromium	mg/kg	12	12	6.4	89	22.217	**14**	**89**	**13**	**11**

Table 6

Summary of Detections
Soil/Fill Samples - EU9
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:							**BH120-18**	**BH121-18**	**SS-86**	**SS-87**
Sample ID:							**S-38443-011918-JC-055**	**S-38443-011918-JC-054**	**S-38443-110217-BW-015**	**SS-38443-103118-JC-087**
Sample Date:							**1/19/2018**	**1/19/2018**	**11/2/2017**	**10/31/2018**
Sample Depth:							**8-10 ft BGS**	**8-10 ft BGS**	**0-2 ft BGS**	**0.5-2.5 ft BGS**
Parameters	**Units**	**Samples**	**Detects**	**Min Detect**	**Max Detect**	**Average (Detects)**				
Chromium III (trivalent)	mg/kg	8	8	11	89	28.375	**14**	**89**	-	**11**
Chromium VI (hexavalent)	mg/kg	8	1	0.42	0.42	0.420	1.4 U	1.4 U	-	0.28 U
Cobalt	mg/kg	12	12	3.5	9.8	5.358	**8.4**	**9.8**	**6.8**	**4.3**
Copper	mg/kg	12	12	12	4700	725.392	**18**	**4700**	**37**	**20**
Iron	mg/kg	12	12	6900	59000	16995.000	**17000**	**59000**	**13000**	**12000**
Lead	mg/kg	12	12	12.5	680	141.875	**23**	**680**	**58**	**28**
Magnesium	mg/kg	12	12	19000	41000	30966.667	**25000**	**29000**	**24000**	**36000**
Manganese	mg/kg	12	12	230	810	409.000	**810**	**700**	**270**	**350**
Mercury	mg/kg	12	11	0.027	0.26	0.101	**0.027 J**	**0.13**	**0.15**	**0.029 J**
Nickel	mg/kg	12	12	8.1	47	17.658	**15**	**38**	**16**	**12**
Potassium	mg/kg	12	12	390	1100	728.667	**1100**	**740**	**960**	**720**
Selenium	mg/kg	12	10	0.33	1.4	0.733	**0.62 J**	**0.62 J**	**1.4**	**0.68 J**
Silver	mg/kg	12	10	0.04	0.81	0.202	**0.055 J**	**0.64**	**0.094 J**	**0.044 J**
Sodium	mg/kg	12	8	78	240	151.000	**78 J**	**240**	130 U	**120 J**
Thallium	mg/kg	12	11	0.1	0.53	0.235	**0.21**	**0.14 J**	**0.53**	**0.16 J**
Vanadium	mg/kg	12	12	12.3	60	21.867	**23**	**18**	**30**	**17**
Zinc	mg/kg	12	12	38	2000	339.183	**66**	**2000**	**81**	**59**
PCBs										
Aroclor-1254 (PCB-1254)	ug/kg	12	3	41	170	87.000	**50 J**	27 U	**41 J**	26 U
Pesticides										
4,4'-DDD	ug/kg	11	1	20	20	20.000	4.0 U	4.0 U	21 U	1.7 U
4,4'-DDE	ug/kg	11	1	2.7	2.7	2.700	1.4 U	1.4 U	7.5 U	1.7 U
4,4'-DDT	ug/kg	11	2	1.7	4.7	3.200	1.7 U	1.7 U	8.8 U	**1.7 J**
Endrin aldehyde	ug/kg	11	2	1.6	4.1	2.850	2.2 U	2.2 U	11 U	**1.6 J**
gamma-Chlordane	ug/kg	11	1	1.8	1.8	1.800	1.8 U	1.8 U	9.4 U	1.4 U
Methoxychlor	ug/kg	11	1	1.8	1.8	1.800	1.4 U	**1.8 NJ**	7.5 U	7.4 U
Dioxin/Furans										
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	1	1	19	19	19.000	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	1	1	0.8	0.8	0.800	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	1	1	2.7	2.7	2.700	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	1	1	0.35	0.35	0.350	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	1	1	0.18	0.18	0.180	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	1	1	0.2	0.2	0.200	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	1	1	0.38	0.38	0.380	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	1	1	0.36	0.36	0.360	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	1	1	0.26	0.26	0.260	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	1	1	0.2	0.2	0.200	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	1	1	0.21	0.21	0.210	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	1	1	0.38	0.38	0.380	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	1	1	0.081	0.081	0.081	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	1	1	1.7	1.7	1.700	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	1	1	5.2	5.2	5.200	-	-	-	-

Table 6

Summary of Detections
Soil/Fill Samples - EU9
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:							**BH120-18**	**BH121-18**	**SS-86**	**SS-87**
Sample ID:							**S-38443-011918-JC-055**	**S-38443-011918-JC-054**	**S-38443-110217-BW-015**	**SS-38443-103118-JC-087**
Sample Date:							**1/19/2018**	**1/19/2018**	**11/2/2017**	**10/31/2018**
Sample Depth:							**8-10 ft BGS**	**8-10 ft BGS**	**0-2 ft BGS**	**0.5-2.5 ft BGS**
Parameters	**Units**	**Samples**	**Detects**	**Min Detect**	**Max Detect**	**Average (Detects)**				
Total hexachlorodibenzofuran (HxCDF)	pg/g	1	1	4.4	4.4	4.400	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	1	1	3.7	3.7	3.700	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	1	1	7.7	7.7	7.700	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	1	1	8.9	8.9	8.900	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	1	1	8.5	8.5	8.500	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	1	1	2.8	2.8	2.800	-	-	-	-
General Chemistry										
Cyanide (total)	mg/kg	11	3	0.23	7.1	2.623	0.088 U	**7.1**	0.51 U	0.20 U
Total solids	%	2	2	90.3	95.6	92.950	-	-	-	-

Notes
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 6

Summary of Detections
Soil/Fill Samples - EU9
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-87**	**SS-88**	**SS-90**	**SS-91**	**SS-92**	**SS-93**	**SS-161-AS**
Sample ID:		**SS-38443-103118-JC-119**	**SS-38443-103118-JC-088**	**SS-38443-103118-JC-090**	**SS-38443-103118-JC-091**	**SS-38443-103118-JC-092**	**SS-38443-103118-JC-093**	**SS-38443-103118-JC-161**
Sample Date:		**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**
Sample Depth:		**0.5-2.5 ft BGS**	**0.5-2.5 ft BGS**	**0.17-2.17 ft BGS**	**0.5-2.5 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.5-1 ft BGS**
		Duplicate						
Parameters	**Units**							
Volatiles								
1,1-Dichloroethane	ug/kg	0.69 U	-	0.72 U	0.62 U	**4.3 J**	0.69 U	-
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	3.5 U	-	3.7 U	3.2 U	**41**	**6.6 J**	-
Acetone	ug/kg	21 U	-	22 U	19 U	**180**	**22 J**	-
Ethylbenzene	ug/kg	1.0 U	-	1.1 U	0.93 U	**2.4 J**	1.0 U	-
Isopropyl benzene	ug/kg	0.83 U	-	0.87 U	0.74 U	**1.1 J**	0.82 U	-
Toluene	ug/kg	0.77 U	-	0.80 U	0.69 U	**2.6 J**	0.77 U	-
Xylenes (total)	ug/kg	1.6 U	-	1.6 U	1.4 U	**12**	1.6 U	-
Semi-Volatiles								
2-Methylnaphthalene	ug/kg	**32 J**	-	**33**	**78**	**2900**	**9.7 J**	-
2-Methylphenol	ug/kg	69 U	-	33 U	66 U	1700 U	33 U	-
Acenaphthene	ug/kg	**97**	-	3.0 U	**89**	160 U	3.1 U	-
Acenaphthylene	ug/kg	**26 J**	-	4.2 U	**60**	220 U	**6.6 J**	-
Acetophenone	ug/kg	24 U	-	12 U	24 U	610 U	12 U	-
Anthracene	ug/kg	**200**	-	**6.6 J**	**250**	130 U	**13 J**	-
Benzaldehyde	ug/kg	51 U	-	24 U	49 U	1300 U	25 U	-
Benzo(a)anthracene	ug/kg	**890**	-	**34**	**720**	190 U	**100**	-
Benzo(a)pyrene	ug/kg	**920**	-	**35**	**690**	520 U	**84**	-
Benzo(b)fluoranthene	ug/kg	**1200**	-	**56**	**970**	**600 J**	**340**	-
Benzo(g,h,i)perylene	ug/kg	**730**	-	**20**	**390**	**630 J**	**140**	-
Benzo(k)fluoranthene	ug/kg	**490**	-	**17**	**330**	390 U	**94**	-
Biphenyl (1,1-Biphenyl)	ug/kg	38 U	-	18 U	36 U	950 U	18 U	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	110 U	-	54 U	110 U	**8600**	55 U	-
Carbazole	ug/kg	**190**	-	**23 J**	**140**	1100 U	21 U	-
Chrysene	ug/kg	**970**	-	**40**	**720**	83 U	**150**	-
Dibenz(a,h)anthracene	ug/kg	**180**	-	**8.3 J**	**120**	390 U	**48**	-
Dibenzofuran	ug/kg	**41 J**	-	14 U	**57 J**	720 U	14 U	-
Fluoranthene	ug/kg	**1800**	-	**62**	**1500**	**1100**	**110**	-
Fluorene	ug/kg	**65**	-	2.9 U	**82**	**530 J**	3.0 U	-
Indeno(1,2,3-cd)pyrene	ug/kg	**620**	-	**14 J**	**370**	410 U	**120**	-
Isophorone	ug/kg	27 U	-	13 U	26 U	670 U	**44 J**	-
Naphthalene	ug/kg	**29 J**	-	**25**	**59**	**760 J**	**13 J**	-
Phenanthrene	ug/kg	**1100**	-	**44**	**980**	**1100**	**84**	-
Pyrene	ug/kg	**1900**	-	**63**	**1400**	**1500**	**85**	-
Metals								
Aluminum	mg/kg	**6200**	-	**4700**	**4800**	**7000**	**4600**	-
Antimony	mg/kg	**0.27 J**	-	**0.30 J**	**0.57**	**0.52**	**0.70**	-
Arsenic	mg/kg	**6.2**	-	**4.1**	**6.4**	**11**	**12**	-
Barium	mg/kg	**61**	-	**70**	**75**	**120**	**280**	-
Beryllium	mg/kg	**0.49**	-	**0.97**	**0.59**	**0.61**	**1.2**	-
Cadmium	mg/kg	**0.25**	-	**0.82**	**0.44**	**1.6**	**0.44**	-
Calcium	mg/kg	**93000**	-	**110000**	**85000**	**80000**	**76000**	-
Chromium	mg/kg	**11**	-	**57**	**12**	**20**	**13**	-

Table 6

Summary of Detections
Soil/Fill Samples - EU9
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-87**	**SS-88**	**SS-90**	**SS-91**	**SS-92**	**SS-93**	**SS-161-AS**
Sample ID:		**SS-38443-103118-JC-119**	**SS-38443-103118-JC-088**	**SS-38443-103118-JC-090**	**SS-38443-103118-JC-091**	**SS-38443-103118-JC-092**	**SS-38443-103118-JC-093**	**SS-38443-103118-JC-161**
Sample Date:		**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**
Sample Depth:		**0.5-2.5 ft BGS**	**0.5-2.5 ft BGS**	**0.17-2.17 ft BGS**	**0.5-2.5 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.5-1 ft BGS**
		Duplicate						
Parameters	**Units**							
Chromium III (trivalent)	mg/kg	**11**	-	**57**	**12**	**20**	**13**	-
Chromium VI (hexavalent)	mg/kg	0.27 U	-	**0.42 J**	0.26 U	0.27 U	0.26 U	-
Cobalt	mg/kg	**4.4**	-	**4.3**	**3.5**	**6.0**	**4.7**	-
Copper	mg/kg	**21**	-	**3700**	**21**	**40**	**50**	-
Iron	mg/kg	**11000**	-	**17000**	**24000**	**14000**	**11000**	-
Lead	mg/kg	**36**	-	**210**	**42**	**310**	**150**	-
Magnesium	mg/kg	**29000**	-	**41000**	**35000**	**34000**	**26000**	-
Manganese	mg/kg	**370**	-	**300**	**560**	**470**	**230**	-
Mercury	mg/kg	**0.053 J**	-	**0.064 J**	**0.048 J**	**0.17**	**0.082 J**	-
Nickel	mg/kg	**12**	-	**47**	**10**	**18**	**13**	-
Potassium	mg/kg	**720**	-	**560**	**650**	**920**	**640**	-
Selenium	mg/kg	**0.62 J**	-	**0.33 J**	**0.44 J**	**0.77 J**	**0.75 J**	-
Silver	mg/kg	**0.053 J**	-	**0.81**	**0.040 J**	**0.16 J**	**0.084 J**	-
Sodium	mg/kg	**110 J**	-	**160 J**	**160 J**	**170 J**	**170 J**	-
Thallium	mg/kg	**0.19**	-	**0.10 J**	**0.13 J**	**0.27**	**0.32**	-
Vanadium	mg/kg	**18**	-	**60**	**16**	**21**	**17**	-
Zinc	mg/kg	**70**	-	**1000**	**86**	**210**	**130**	-
PCBs								
Aroclor-1254 (PCB-1254)	ug/kg	25 U	-	24 U	**170**	260 U	25 U	-
Pesticides								
4,4'-DDD	ug/kg	1.6 U	-	1.5 U	1.6 U	33 U	1.6 U	-
4,4'-DDE	ug/kg	1.7 U	-	1.6 U	**2.7 J**	34 U	1.6 U	-
4,4'-DDT	ug/kg	1.3 U	-	1.2 U	**4.7 J**	25 U	1.2 U	-
Endrin aldehyde	ug/kg	**4.1 J**	-	1.4 U	1.4 U	29 U	1.4 U	-
gamma-Chlordane	ug/kg	1.4 U	-	1.3 U	**1.8 J**	27 U	1.3 U	-
Methoxychlor	ug/kg	7.3 U	-	6.9 U	7.0 U	150 U	7.0 U	-
Dioxin/Furans								
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-

Table 6

Summary of Detections
Soil/Fill Samples - EU9
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-87**	**SS-88**	**SS-90**	**SS-91**	**SS-92**	**SS-93**	**SS-161-AS**
Sample ID:		**SS-38443-103118-JC-119**	**SS-38443-103118-JC-088**	**SS-38443-103118-JC-090**	**SS-38443-103118-JC-091**	**SS-38443-103118-JC-092**	**SS-38443-103118-JC-093**	**SS-38443-103118-JC-161**
Sample Date:		**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**
Sample Depth:		**0.5-2.5 ft BGS**	**0.5-2.5 ft BGS**	**0.17-2.17 ft BGS**	**0.5-2.5 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.5-1 ft BGS**
		Duplicate						
Parameters	**Units**							
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
General Chemistry								
Cyanide (total)	mg/kg	0.23 U	-	0.22 U	0.19 U	0.21 U	**0.23 J**	-
Total solids	%	-	-	-	-	-	-	-

Notes
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 6

Summary of Detections
Soil/Fill Samples - EU9
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-162-AS**	**TP-17**	**TT-13**	**VAS-21B**
Sample ID:		**SS-38443-103118-JC-162**	**S-38443-110217-BW-016**	**S-38443-092508-KMV-017**	**S-38443-060209-DR-001**
Sample Date:		**10/31/2018**	**11/2/2017**	**9/25/2008**	**6/2/2009**
Sample Depth:		**0.17-0.67 ft BGS**	**8-10 ft BGS**	**7 ft BGS**	**3-5 ft BGS**
Parameters	**Units**				
Volatiles					
1,1-Dichloroethane	ug/kg	-	0.70 U	4.7 U	4.3 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	-	2.7 U	19 U	17 U
Acetone	ug/kg	-	6.5 U	19 U	17 U
Ethylbenzene	ug/kg	-	0.57 U	4.7 U	4.3 U
Isopropyl benzene	ug/kg	-	0.43 U	4.7 U	4.3 U
Toluene	ug/kg	-	0.72 U	4.7 U	4.3 U
Xylenes (total)	ug/kg	-	0.85 U	9.4 U	8.6 U
Semi-Volatiles					
2-Methylnaphthalene	ug/kg	-	**1100**	7.0 U	74 U
2-Methylphenol	ug/kg	-	**13 J**	210 U	2200 U
Acenaphthene	ug/kg	-	**44**	**7.1**	74 U
Acenaphthylene	ug/kg	-	**30**	7.0 U	74 U
Acetophenone	ug/kg	-	**96 J**	100 U	1100 U
Anthracene	ug/kg	-	**95**	**21**	**280**
Benzaldehyde	ug/kg	-	**95 J**	100 U	1100 U
Benzo(a)anthracene	ug/kg	-	**290**	**110**	**360**
Benzo(a)pyrene	ug/kg	-	**210**	**99**	**410**
Benzo(b)fluoranthene	ug/kg	-	**400**	**140**	**480**
Benzo(g,h,i)perylene	ug/kg	-	**110**	**71**	**320**
Benzo(k)fluoranthene	ug/kg	-	**140**	**52**	**310**
Biphenyl (1,1-Biphenyl)	ug/kg	-	**64**	52 U	550 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	-	57 U	52 U	550 U
Carbazole	ug/kg	-	**54 J**	52 U	550 U
Chrysene	ug/kg	-	**310**	**110**	**380**
Dibenz(a,h)anthracene	ug/kg	-	**30**	7.0 U	74 U
Dibenzofuran	ug/kg	-	**330**	52 U	550 U
Fluoranthene	ug/kg	-	**560**	**210**	**690**
Fluorene	ug/kg	-	**50**	7.0 U	74 U
Indeno(1,2,3-cd)pyrene	ug/kg	-	**67**	**59**	**300**
Isophorone	ug/kg	-	15 U	52 U	550 U
Naphthalene	ug/kg	-	**640**	7.0 U	74 U
Phenanthrene	ug/kg	-	**700**	**95**	**360**
Pyrene	ug/kg	-	**550**	**200**	**520**
Metals					
Aluminum	mg/kg	-	**3100 J**	**3720**	**5450**
Antimony	mg/kg	-	0.18 UJ	**0.50 J**	**0.68 J**
Arsenic	mg/kg	-	**7.5**	**4.2 J**	**7.6**
Barium	mg/kg	-	**74**	**35.8**	**106 J**
Beryllium	mg/kg	-	**0.37**	0.52 U	**0.54 J**
Cadmium	mg/kg	-	**0.59**	**0.21 J**	**0.91**
Calcium	mg/kg	-	**140000**	**108000**	**108000**
Chromium	mg/kg	-	**7.5**	**6.4 J**	**12.7**

Table 6

Summary of Detections
Soil/Fill Samples - EU9
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-162-AS**	**TP-17**	**TT-13**	**VAS-21B**
Sample ID:		**SS-38443-103118-JC-162**	**S-38443-110217-BW-016**	**S-38443-092508-KMV-017**	**S-38443-060209-DR-001**
Sample Date:		**10/31/2018**	**11/2/2017**	**9/25/2008**	**6/2/2009**
Sample Depth:		**0.17-0.67 ft BGS**	**8-10 ft BGS**	**7 ft BGS**	**3-5 ft BGS**
Parameters	**Units**				
Chromium III (trivalent)	mg/kg	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-
Cobalt	mg/kg	-	**3.9**	**3.5 J**	**4.7 J**
Copper	mg/kg	-	**19**	**12.0**	**66.7 J**
Iron	mg/kg	-	**6900**	**7740**	**11300**
Lead	mg/kg	-	**29**	**12.5**	**124 J**
Magnesium	mg/kg	-	**19000**	**40800**	**32800**
Manganese	mg/kg	-	**230**	**256**	**362**
Mercury	mg/kg	-	**0.26**	0.10 U	**0.096 J**
Nickel	mg/kg	-	**10**	**8.1**	**12.8**
Potassium	mg/kg	-	**390**	**559**	**785**
Selenium	mg/kg	-	**1.1 J**	26.1 U	27.7 U
Silver	mg/kg	-	**0.043 J**	1.0 U	1.1 U
Sodium	mg/kg	-	160 U	523 U	554 U
Thallium	mg/kg	-	**0.34 J**	0.10 U	**0.19**
Vanadium	mg/kg	-	**13**	**12.3**	**17.1**
Zinc	mg/kg	-	**38**	**39.2 J**	**291**
PCBs					
Aroclor-1254 (PCB-1254)	ug/kg	-	17 U	35 U	37 U
Pesticides					
4,4'-DDD	ug/kg	-	**20 J**	18 U	-
4,4'-DDE	ug/kg	-	7.3 U	18 U	-
4,4'-DDT	ug/kg	-	8.5 U	18 U	-
Endrin aldehyde	ug/kg	-	11 U	18 U	-
gamma-Chlordane	ug/kg	-	9.1 U	18 U	-
Methoxychlor	ug/kg	-	7.3 U	35 U	-
Dioxin/Furans					
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	**19**	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	**0.80 J**	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	**2.7 J**	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	**0.35 J**	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	**0.18 J**	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	**0.20 J**	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	**0.38 J**	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	**0.36 J**	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	**0.26 J**	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	**0.20 J**	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	**0.21 J**	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	**0.38 J**	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	**0.081 J**	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	**1.7 J**	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	**5.2 J**	-	-

Table 6

Summary of Detections
Soil/Fill Samples - EU9
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-162-AS**	**TP-17**	**TT-13**	**VAS-21B**
Sample ID:		**SS-38443-103118-JC-162**	**S-38443-110217-BW-016**	**S-38443-092508-KMV-017**	**S-38443-060209-DR-001**
Sample Date:		**10/31/2018**	**11/2/2017**	**9/25/2008**	**6/2/2009**
Sample Depth:		**0.17-0.67 ft BGS**	**8-10 ft BGS**	**7 ft BGS**	**3-5 ft BGS**
Parameters	**Units**				
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	**4.4 J**	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	**3.7 J**	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	**7.7 J**	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	**8.9 J**	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	**8.5 J**	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	**2.8 J**	-	-
General Chemistry					
Cyanide (total)	mg/kg	-	**0.54 J**	0.52 U	-
Total solids	%	-	-	**95.6**	**90.3**

Notes
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 7

Summary of Detections
Soil/Fill Samples - EU10
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:							BH97-17	BH97-17	BH117-18	BH118-18
Sample ID:							S-38443-120817-JC-005	S-38443-120817-JC-006	S-38443-011818-JC-050	S-38443-011818-JC-051
Sample Date:							12/8/2017	12/8/2017	1/18/2018	1/18/2018
Sample Depth:							13-15 ft BGS	13-15 ft BGS	10-12 ft BGS	3-5 ft BGS
								Duplicate		
Parameters	**Units**	**Samples**	**Detects**	**Min Detect**	**Max Detect**	**Average (Detects)**				
Volatiles										
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	14	7	3.1	19	9.614	**3.5 J**	**3.1 J**	1.1 U	**7.3 J**
Acetone	ug/kg	14	9	17	100	48.000	**17 J**	**20**	8.8 U	**42**
Carbon disulfide	ug/kg	14	2	0.34	0.38	0.360	0.22 U	0.21 U	0.19 U	**0.34 J**
cis-1,2-Dichloroethene	ug/kg	14	1	0.93	0.93	0.930	0.29 U	0.28 U	0.25 U	0.30 U
Toluene	ug/kg	13	1	1.7	1.7	1.700	0.35 U	0.34 U	0.30 U	0.36 U
Vinyl chloride	ug/kg	14	1	0.28	0.28	0.280	0.29 U	**0.28 J**	0.25 U	0.30 U
Xylenes (total)	ug/kg	13	1	1.5	1.5	1.500	0.42 U	0.40 U	0.35 U	0.42 U
Semi-Volatiles										
2-Methylnaphthalene	ug/kg	14	14	4.5	770	169.864	**5.5 J**	**7.1 J**	**4.5 J**	**11 J**
2-Methylphenol	ug/kg	14	1	84	84	84.000	13 U	13 U	13 U	12 U
3&4-Methylphenol	ug/kg	14	1	210	210	210.000	23 U	23 U	23 U	21 U
Acenaphthene	ug/kg	14	7	4.3	54	22.900	0.88 U	0.87 U	**12**	**4.3 J**
Acenaphthylene	ug/kg	14	10	6.2	140	32.710	**7.4 J**	**12**	0.41 U	0.37 U
Acetophenone	ug/kg	14	2	64	79	71.500	11 U	11 U	11 U	9.7 U
Anthracene	ug/kg	14	14	5	270	53.379	**8.5**	**11**	**39**	**5.0 J**
Benzaldehyde	ug/kg	14	2	69	110	89.500	14 U	14 U	14 U	13 U
Benzo(a)anthracene	ug/kg	14	14	24	970	244.786	**27**	**39**	**160**	**61**
Benzo(a)pyrene	ug/kg	14	14	28	840	219.071	**32**	**44**	**190**	**120**
Benzo(b)fluoranthene	ug/kg	14	14	42	1300	362.357	**42**	**70**	**270**	**320**
Benzo(g,h,i)perylene	ug/kg	14	14	33	530	165.429	**33**	**40**	**160**	**170**
Benzo(k)fluoranthene	ug/kg	14	14	15	450	118.357	**15**	**28**	**80**	**91**
Biphenyl (1,1-Biphenyl)	ug/kg	14	6	4.4	110	36.033	4.1 U	4.0 U	4.1 U	**4.4 J**
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	14	3	38	110	73.667	22 U	22 U	**38 J**	20 U
Carbazole	ug/kg	14	5	33	280	90.000	31 U	31 U	31 U	28 U
Chrysene	ug/kg	14	14	30	870	274.643	**30**	**45**	**170**	**120**
Dibenz(a,h)anthracene	ug/kg	14	12	11	150	51.917	0.77 U	0.76 U	**35**	**50**
Dibenzofuran	ug/kg	14	9	17	270	76.778	0.77 U	0.76 U	0.77 U	0.69 U
Diethyl phthalate	ug/kg	14	1	43	43	43.000	19 U	18 U	19 U	17 U
Di-n-butylphthalate (DBP)	ug/kg	14	1	20	20	20.000	**20 J**	17 U	17 U	16 U
Fluoranthene	ug/kg	14	14	41	2100	408.000	**48**	**81**	**380**	**52 J**
Fluorene	ug/kg	14	9	4	120	29.389	0.62 U	0.61 U	**13**	**4.0 J**
Indeno(1,2,3-cd)pyrene	ug/kg	14	14	26	490	134.357	**26**	**34**	**130**	**140**
Naphthalene	ug/kg	14	14	5.6	460	99.364	**5.6 J**	**8.3**	**7.2 J**	**15 J**
Phenanthrene	ug/kg	14	14	28	1300	304.214	**28**	**51**	**170**	**38 J**
Phenol	ug/kg	14	2	12	180	96.000	8.5 U	8.4 U	8.5 U	7.7 U
Pyrene	ug/kg	14	14	30	1500	330.857	**53**	**84**	**290**	**45 J**
Metals										
Aluminum	mg/kg	14	14	2000	12000	6535.714	**11000**	**9100**	**8000**	**2000**
Antimony	mg/kg	14	12	0.25	2	0.718	**0.26 J**	**0.29 J**	0.34 UJ	**2.0 J**
Arsenic	mg/kg	14	14	4	27	10.050	**10**	**9.2**	**12**	**5.9**
Barium	mg/kg	14	14	20	690	123.000	**73**	**84**	**77**	**21**
Beryllium	mg/kg	14	14	0.25	2.8	0.711	**0.65**	**0.61**	**0.54**	**0.25**
Cadmium	mg/kg	14	14	0.12	0.94	0.381	**0.12 J**	**0.17 J**	**0.21**	**0.34**
Calcium	mg/kg	14	14	1400	140000	47028.571	**14000**	**16000**	**16000**	**1400 J**

Table 7

Summary of Detections
Soil/Fill Samples - EU10
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:							**BH97-17**	**BH97-17**	**BH117-18**	**BH118-18**
Sample ID:							**S-38443-120817-JC-005**	**S-38443-120817-JC-006**	**S-38443-011818-JC-050**	**S-38443-011818-JC-051**
Sample Date:							**12/8/2017**	**12/8/2017**	**1/18/2018**	**1/18/2018**
Sample Depth:							**13-15 ft BGS**	**13-15 ft BGS**	**10-12 ft BGS**	**3-5 ft BGS**
								Duplicate		
Parameters	**Units**	**Samples**	**Detects**	**Min Detect**	**Max Detect**	**Average (Detects)**				
Chromium	mg/kg	14	14	6.2	80	23.914	**15**	**15**	**17**	**40**
Chromium III (trivalent)	mg/kg	14	14	6.2	80	23.771	**14**	**15**	**17**	**39**
Chromium VI (hexavalent)	mg/kg	14	5	0.3	0.88	0.470	**0.88 J**	**0.31 J**	1.4 U	**0.30 J**
Cobalt	mg/kg	14	14	2.6	8.9	5.879	**7.8**	**8.8**	**6.5**	**3.1**
Copper	mg/kg	14	14	8.1	92	42.650	**22**	**22**	**16**	**75**
Iron	mg/kg	14	14	7400	47000	20735.714	**21000**	**19000**	**18000**	**33000**
Lead	mg/kg	14	14	4.5	140	48.607	**23**	**29**	**15**	**27**
Lead - coarse fraction	mg/kg	2	2	44	52	48.000	-	-	-	-
Lead - fine fraction	mg/kg	2	2	74	99	86.500	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	2	2	48	64	56.000	-	-	-	-
Magnesium	mg/kg	14	14	610	43000	15536.429	**7100**	**7200**	**8900**	**610 J**
Manganese	mg/kg	14	14	210	890	402.857	**370**	**400**	**450 J**	**470 J**
Mercury	mg/kg	14	12	0.024	0.27	0.089	**0.073 J**	**0.050 J**	**0.027 J**	0.021 U
Nickel	mg/kg	14	14	7.4	41	18.929	**19**	**17**	**15**	**29**
Potassium	mg/kg	14	14	140	1300	797.143	**1300**	**1200**	**1000**	**140 J**
Selenium	mg/kg	14	14	0.32	2.3	0.855	**1.2**	**1.2**	**0.74 J**	**0.35 J**
Silver	mg/kg	14	13	0.036	0.23	0.097	**0.036 J**	**0.043 J**	**0.042 J**	**0.085 J**
Sodium	mg/kg	14	12	55	640	154.667	110 U	100 U	**60 J**	**55 J**
Thallium	mg/kg	14	14	0.089	0.38	0.195	**0.24 J**	**0.25 J**	**0.18 J**	**0.089 J**
Vanadium	mg/kg	14	14	4.6	36	20.357	**28**	**26**	**27**	**4.6**
Zinc	mg/kg	14	14	31	270	95.429	**67**	**74**	**58**	**98**
PCBs										
Aroclor-1254 (PCB-1254)	ug/kg	14	4	40	760	347.750	26 U	27 U	26 U	24 U
Pesticides										
4,4'-DDD	ug/kg	14	1	4.3	4.3	4.300	4.0 U	37 U	3.8 U	3.4 U
4,4'-DDE	ug/kg	14	2	5.2	30	17.600	1.4 U	14 U	1.4 U	1.2 U
4,4'-DDT	ug/kg	14	3	2.9	13	7.500	1.7 U	16 U	1.6 U	1.5 U
alpha-BHC	ug/kg	14	2	1.9	13	7.450	1.9 U	18 U	1.9 U	1.7 U
alpha-Chlordane	ug/kg	14	1	1.7	1.7	1.700	4.6 U	43 U	4.4 U	4.0 U
beta-BHC	ug/kg	14	3	2.2	7.3	4.867	4.7 U	44 U	4.5 U	4.1 U
Dieldrin	ug/kg	14	2	3.3	37	20.150	1.1 U	10 U	1.0 U	0.94 U
Endrin aldehyde	ug/kg	14	1	2.4	2.4	2.400	2.2 U	20 U	2.1 U	1.9 U
gamma-Chlordane	ug/kg	14	2	1.8	1.8	1.800	1.8 U	17 U	1.7 U	1.6 U
Heptachlor epoxide	ug/kg	14	1	4.2	4.2	4.200	2.9 U	27 U	2.8 U	2.5 U
Methoxychlor	ug/kg	14	1	1.5	1.5	1.500	1.4 U	14 U	**1.5 NJ**	1.2 U
Dioxin/Furans										
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	2	2	11	11	11.000	**11 J**	**11**	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	2	2	150	160	155.000	**160**	**150**	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	2	2	11	13	12.000	**13**	**11**	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	2	2	14	14	14.000	**14**	**14**	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	2	2	0.45	0.51	0.480	**0.45 J**	**0.51 J**	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	2	2	0.82	0.87	0.845	**0.82 J**	**0.87 J**	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	2	2	0.22	0.23	0.225	**0.22 J**	**0.23 J**	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	2	2	1.2	1.2	1.200	**1.2 J**	**1.2 J**	-	-

Table 7

Summary of Detections
Soil/Fill Samples - EU10
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:							**BH97-17**	**BH97-17**	**BH117-18**	**BH118-18**
Sample ID:							**S-38443-120817-JC-005**	**S-38443-120817-JC-006**	**S-38443-011818-JC-050**	**S-38443-011818-JC-051**
Sample Date:							**12/8/2017**	**12/8/2017**	**1/18/2018**	**1/18/2018**
Sample Depth:							**13-15 ft BGS**	**13-15 ft BGS**	**10-12 ft BGS**	**3-5 ft BGS**
								Duplicate		
Parameters	**Units**	**Samples**	**Detects**	**Min Detect**	**Max Detect**	**Average (Detects)**				
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	2	2	0.91	0.95	0.930	**0.91 J**	**0.95 J**	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	2	2	0.6	0.68	0.640	**0.68 J**	**0.60 J**	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	2	1	0.32	0.32	0.320	0.14 U	**0.32 J**	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	2	2	0.44	0.45	0.445	**0.45 J**	**0.44 J**	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	2	1	0.41	0.41	0.410	0.19 U	**0.41 J**	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	2	2	0.82	1.2	1.010	**0.82 J**	**1.2**	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	2	1	0.18	0.18	0.180	0.068 U	**0.18 J**	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	2	2	28	30	29.000	**30 J**	**28 J**	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	2	2	27	28	27.500	**27 J**	**28 J**	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	2	2	25	30	27.500	**30 J**	**25 J**	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	2	2	6.9	7	6.950	**7.0 J**	**6.9 J**	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	2	2	40	54	47.000	**54 J**	**40 J**	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	2	2	18	20	19.000	**18 J**	**20 J**	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	2	2	49	64	56.500	**64 J**	**49 J**	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	2	2	1.9	1.9	1.900	**1.9 J**	**1.9 J**	-	-
Asbestos										
Chrysotile asbestos	%	1	1	0.25	0.25	0.250	-	-	-	-
General Chemistry										
Cyanide (total)	mg/kg	14	7	0.077	7.6	1.260	0.27 U	0.24 U	**0.11 J**	**0.077 J**

Notes
< - Less than reported value.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 7

Summary of Detections
Soil/Fill Samples - EU10
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH118-18**	**BH119-18**	**SS-32**	**SS-78**	**SS-79**	**SS-80**	**SS-81**
Sample ID:		**S-38443-011818-JC-052**	**S-38443-011818-JC-053**	**SS-38443-103118-JC-032**	**SS-38443-103118-JC-078**	**SS-38443-103118-JC-079**	**SS-38443-103118-JC-080**	**SS-38443-103118-JC-081**
Sample Date:		**1/18/2018**	**1/18/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**
Sample Depth:		**3-5 ft BGS**	**9-11 ft BGS**	**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.33-2.33 ft BGS**
		Duplicate						
Parameters	**Units**							
Volatiles								
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	**6.4 J**	1.2 U	4.2 U	**15 J**	3.5 U	3.8 U	3.5 U
Acetone	ug/kg	**37**	9.0 U	25 U	**68**	21 U	**23 J**	21 U
Carbon disulfide	ug/kg	**0.38 J**	0.19 U	1.4 U	1.1 U	1.2 U	1.3 U	1.1 U
cis-1,2-Dichloroethene	ug/kg	0.33 U	0.26 U	0.77 U	0.59 U	0.65 U	0.70 U	0.64 U
Toluene	ug/kg	0.40 U	0.31 U	0.92 U	0.70 U	0.77 U	0.83 U	0.76 U
Vinyl chloride	ug/kg	0.33 U	0.26 U	0.99 U	0.76 U	0.84 U	0.90 U	0.83 U
Xylenes (total)	ug/kg	0.47 U	0.37 U	1.9 U	1.4 U	1.6 U	1.7 U	1.6 U
Semi-Volatiles								
2-Methylnaphthalene	ug/kg	**35 J**	**50**	**69**	**460**	**710**	**46**	**770**
2-Methylphenol	ug/kg	12 U	13 U	32 U	35 U	**84 J**	34 U	35 U
3&4-Methylphenol	ug/kg	22 U	23 U	30 U	33 U	**210 J**	32 U	33 U
Acenaphthene	ug/kg	**16**	0.89 U	**17**	**31**	3.5 U	3.1 U	**26**
Acenaphthylene	ug/kg	**6.2 J**	**7.5 J**	**28**	**51**	**28**	**34**	4.6 U
Acetophenone	ug/kg	10 U	11 U	11 U	12 U	**79 J**	12 U	**64 J**
Anthracene	ug/kg	**34 J**	**48**	**39**	**65**	**110**	**38**	**57**
Benzaldehyde	ug/kg	13 U	14 U	24 U	26 U	**110 J**	25 U	**69 J**
Benzo(a)anthracene	ug/kg	**100**	**740**	**180**	**200**	**520**	**160**	**180**
Benzo(a)pyrene	ug/kg	**130**	**630**	**210**	**180**	**270**	**150**	**170**
Benzo(b)fluoranthene	ug/kg	**290**	**910**	**340**	**270**	**520**	**250**	**310**
Benzo(g,h,i)perylene	ug/kg	**140**	**340**	**93**	**150**	**300**	**130**	**120**
Benzo(k)fluoranthene	ug/kg	**91**	**380**	**130**	**53**	**110**	**95**	**80**
Biphenyl (1,1-Biphenyl)	ug/kg	**9.3 J**	**7.5 J**	18 U	**26 J**	**110**	19 U	**59**
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	21 U	22 U	**110**	58 U	63 U	56 U	**73 J**
Carbazole	ug/kg	30 U	**51 J**	**42 J**	**33 J**	23 U	21 U	**44 J**
Chrysene	ug/kg	**150**	**730**	**220**	**210**	**790**	**170**	**220**
Dibenz(a,h)anthracene	ug/kg	**40**	**100**	**31**	**34**	**88**	**41**	**26**
Dibenzofuran	ug/kg	**24 J**	**17 J**	**24 J**	**88**	**270**	**18 J**	**170**
Diethyl phthalate	ug/kg	18 U	**43 J**	32 U	35 U	38 U	34 U	35 U
Di-n-butylphthalate (DBP)	ug/kg	17 U	18 U	23 U	25 U	27 U	24 U	25 U
Fluoranthene	ug/kg	**200 J**	**1100**	**300**	**370**	**310**	**300**	**300**
Fluorene	ug/kg	**17**	**6.5 J**	**17**	**42**	3.4 U	**12 J**	**33**
Indeno(1,2,3-cd)pyrene	ug/kg	**110**	**310**	**94**	**120**	**160**	**110**	**63**
Naphthalene	ug/kg	**40 J**	**40**	**57**	**190**	**390**	**33**	**460**
Phenanthrene	ug/kg	**190 J**	**190**	**200**	**280**	**1000**	**170**	**510**
Phenol	ug/kg	8.2 U	8.6 U	8.3 U	9.1 U	**180**	8.7 U	**12 J**
Pyrene	ug/kg	**150 J**	**830**	**300**	**320**	**320**	**250**	**340**
Metals								
Aluminum	mg/kg	**2900**	**6100**	**2400**	**9600**	**12000**	**4600**	**6000**
Antimony	mg/kg	**1.3 J**	**1.2 J**	0.10 U	**0.43**	**0.57**	**0.88**	**0.29 J**
Arsenic	mg/kg	**7.6**	**15**	**4.0**	**8.2**	**27**	**14**	**6.4**
Barium	mg/kg	**62**	**90**	**20**	**130**	**690**	**120**	**98**
Beryllium	mg/kg	**0.26**	**0.49**	**0.33**	**0.73**	**2.8**	**1.2**	**0.65**
Cadmium	mg/kg	**0.59**	**0.55**	**0.13 J**	**0.46**	**0.53**	**0.35**	**0.94**
Calcium	mg/kg	**16000 J**	**58000**	**140000**	**43000**	**38000**	**73000**	**42000**

Table 7

Summary of Detections
Soil/Fill Samples - EU10
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH118-18**	**BH119-18**	**SS-32**	**SS-78**	**SS-79**	**SS-80**	**SS-81**
Sample ID:		**S-38443-011818-JC-052**	**S-38443-011818-JC-053**	**SS-38443-103118-JC-032**	**SS-38443-103118-JC-078**	**SS-38443-103118-JC-079**	**SS-38443-103118-JC-080**	**SS-38443-103118-JC-081**
Sample Date:		**1/18/2018**	**1/18/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**
Sample Depth:		**3-5 ft BGS**	**9-11 ft BGS**	**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.33-2.33 ft BGS**
		Duplicate						
Parameters	**Units**							
Chromium	mg/kg	**53**	**23**	**6.2**	**16**	**14**	**15**	**16**
Chromium III (trivalent)	mg/kg	**53**	**23**	**6.2**	**16**	**14**	**15**	**16**
Chromium VI (hexavalent)	mg/kg	0.27 U	1.4 U	0.25 U	0.27 U	0.30 U	**0.42 J**	0.28 U
Cobalt	mg/kg	**4.7**	**6.5**	**2.6**	**6.3**	**8.9**	**6.3**	**5.5**
Copper	mg/kg	**92**	**53**	**8.1**	**30**	**57**	**90**	**23**
Iron	mg/kg	**47000**	**43000**	**7400**	**15000**	**13000**	**8800**	**12000**
Lead	mg/kg	**45**	**38**	**4.5**	**60**	**140**	**100**	**54**
Lead - coarse fraction	mg/kg	-	-	-	-	**52 J**	-	**44 J**
Lead - fine fraction	mg/kg	-	-	-	-	**99**	-	**74**
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	**64**	-	**48**
Magnesium	mg/kg	**5700 J**	**18000**	**43000**	**15000**	**5700**	**25000**	**14000**
Manganese	mg/kg	**890 J**	**380 J**	**370**	**490**	**220**	**240**	**210**
Mercury	mg/kg	**0.054 J**	**0.23**	0.021 U	**0.11 J**	**0.27**	**0.092 J**	**0.067 J**
Nickel	mg/kg	**41**	**19**	**7.4**	**14**	**19**	**14**	**14**
Potassium	mg/kg	**330**	**1300**	**510**	**1000**	**730**	**660**	**750**
Selenium	mg/kg	**0.44 J**	**2.3**	**0.32 J**	**0.72 J**	**1.1**	**0.96 J**	**0.76 J**
Silver	mg/kg	**0.14 J**	**0.093 J**	0.018 U	**0.18 J**	**0.13 J**	**0.075 J**	**0.23**
Sodium	mg/kg	**73 J**	**150 J**	**130 J**	**97 J**	**640**	**170 J**	**160 J**
Thallium	mg/kg	**0.097 J**	**0.18 J**	**0.10 J**	**0.25**	**0.27**	**0.38**	**0.19**
Vanadium	mg/kg	**8.0**	**19**	**9.4**	**26**	**36**	**23**	**19**
Zinc	mg/kg	**59**	**270**	**31**	**100**	**120**	**180**	**100**
PCBs								
Aroclor-1254 (PCB-1254)	ug/kg	26 U	26 U	23 U	**41 J**	28 U	24 U	**550**
Pesticides								
4,4'-DDD	ug/kg	3.6 U	3.8 U	1.5 U	**4.3 J**	18 U	8.0 U	1.7 U
4,4'-DDE	ug/kg	1.3 UJ	1.4 U	1.5 U	**5.2 J**	18 U	8.2 U	1.7 U
4,4'-DDT	ug/kg	1.5 U	1.6 U	1.2 U	**2.9 J**	14 U	6.1 U	**6.6 J**
alpha-BHC	ug/kg	1.8 U	1.9 U	0.93 U	**1.9 J**	11 U	**13 J**	1.0 U
alpha-Chlordane	ug/kg	4.2 U	4.4 U	1.5 U	1.7 U	18 U	8.1 U	**1.7 J**
beta-BHC	ug/kg	4.3 U	4.5 U	1.8 U	**2.2 J**	21 U	9.4 U	**7.3 J**
Dieldrin	ug/kg	0.99 U	1.0 U	1.1 U	**3.3 J**	13 U	6.0 U	**37 J**
Endrin aldehyde	ug/kg	99 U	2.1 U	1.3 U	1.5 U	16 U	7.1 U	**2.4 J**
gamma-Chlordane	ug/kg	1.7 U	1.7 U	1.3 U	**1.8 J**	15 U	6.7 U	**1.8 J**
Heptachlor epoxide	ug/kg	2.6 U	2.8 U	1.5 U	1.6 U	18 U	7.8 U	**4.2 J**
Methoxychlor	ug/kg	1.3 U	1.4 U	6.7 U	7.3 U	80 U	36 U	7.4 U
Dioxin/Furans								
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-

Table 7

Summary of Detections
Soil/Fill Samples - EU10
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH118-18**	**BH119-18**	**SS-32**	**SS-78**	**SS-79**	**SS-80**	**SS-81**
Sample ID:		**S-38443-011818-JC-052**	**S-38443-011818-JC-053**	**SS-38443-103118-JC-032**	**SS-38443-103118-JC-078**	**SS-38443-103118-JC-079**	**SS-38443-103118-JC-080**	**SS-38443-103118-JC-081**
Sample Date:		**1/18/2018**	**1/18/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**
Sample Depth:		**3-5 ft BGS**	**9-11 ft BGS**	**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.33-2.33 ft BGS**
		Duplicate						
Parameters	**Units**							
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Asbestos								
Chrysotile asbestos	%	-	-	-	-	-	-	-
General Chemistry								
Cyanide (total)	mg/kg	**0.15 J**	**7.6**	0.20 U	0.23 U	**0.30 J**	0.20 U	**0.23 J**

Notes
< - Less than reported value.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 7

Summary of Detections
Soil/Fill Samples - EU10
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-82**	**SS-83**	**SS-84**	**SS-85**	**SS-163-AS**	**SS-164-AS**
Sample ID:		**SS-38443-103118-JC-082**	**SS-38443-103118-JC-083**	**SS-38443-103118-JC-084**	**SS-38443-103118-JC-085**	**SS-38443-103118-JC-163**	**SS-38443-103118-JC-164**
Sample Date:		**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.25-2.25 ft BGS**	**0.33-0.83 ft BGS**	**0.25-0.75 ft BGS**
Parameters	**Units**						
Volatiles							
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	**19**	4.3 U	**13 J**	-	-	-
Acetone	ug/kg	**100**	**25 J**	**100**	-	-	-
Carbon disulfide	ug/kg	1.1 U	1.4 U	1.0 U	-	-	-
cis-1,2-Dichloroethene	ug/kg	0.62 U	**0.93 J**	0.59 U	-	-	-
Toluene	ug/kg	0.74 U	R	**1.7 J**	-	-	-
Vinyl chloride	ug/kg	0.80 U	1.0 U	0.76 U	-	-	-
Xylenes (total)	ug/kg	1.5 U	R	**1.5 J**	-	-	-
Semi-Volatiles							
2-Methylnaphthalene	ug/kg	**26**	**110**	**74**	-	-	-
2-Methylphenol	ug/kg	34 U	67 U	35 U	-	-	-
3&4-Methylphenol	ug/kg	32 U	63 U	33 U	-	-	-
Acenaphthene	ug/kg	3.2 U	**54**	3.2 U	-	-	-
Acenaphthylene	ug/kg	4.5 U	**140**	**13 J**	-	-	-
Acetophenone	ug/kg	12 U	24 U	12 U	-	-	-
Anthracene	ug/kg	**8.8 J**	**270**	**14 J**	-	-	-
Benzaldehyde	ug/kg	26 U	50 U	26 U	-	-	-
Benzo(a)anthracene	ug/kg	**24**	**970**	**66**	-	-	-
Benzo(a)pyrene	ug/kg	**28**	**840**	**73**	-	-	-
Benzo(b)fluoranthene	ug/kg	**61**	**1300**	**120**	-	-	-
Benzo(g,h,i)perylene	ug/kg	**33**	**530**	**77**	-	-	-
Benzo(k)fluoranthene	ug/kg	**21**	**450**	**33**	-	-	-
Biphenyl (1,1-Biphenyl)	ug/kg	19 U	37 U	19 U	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	57 U	110 U	57 U	-	-	-
Carbazole	ug/kg	21 U	**280**	21 U	-	-	-
Chrysene	ug/kg	**38**	**870**	**82**	-	-	-
Dibenz(a,h)anthracene	ug/kg	**11 J**	**150**	**17**	-	-	-
Dibenzofuran	ug/kg	14 U	**63 J**	**17 J**	-	-	-
Diethyl phthalate	ug/kg	34 U	67 U	35 U	-	-	-
Di-n-butylphthalate (DBP)	ug/kg	24 U	48 U	25 U	-	-	-
Fluoranthene	ug/kg	**41**	**2100**	**130**	-	-	-
Fluorene	ug/kg	3.0 U	**120**	3.1 U	-	-	-
Indeno(1,2,3-cd)pyrene	ug/kg	**32**	**490**	**62**	-	-	-
Naphthalene	ug/kg	**25**	**75**	**45**	-	-	-
Phenanthrene	ug/kg	**46**	**1300**	**86**	-	-	-
Phenol	ug/kg	8.9 U	17 U	9.0 U	-	-	-
Pyrene	ug/kg	**30**	**1500**	**120**	-	-	-
Metals							
Aluminum	mg/kg	**3000**	**3800**	**11000**	-	-	-
Antimony	mg/kg	**0.82**	**0.33 J**	**0.25 J**	-	-	-
Arsenic	mg/kg	**6.8**	**6.0**	**8.6**	-	-	-
Barium	mg/kg	**93**	**71**	**93**	-	-	-
Beryllium	mg/kg	**0.35**	**0.41**	**0.68**	-	-	-
Cadmium	mg/kg	**0.44**	**0.31**	**0.20 J**	-	-	-
Calcium	mg/kg	**87000**	**96000**	**18000**	-	-	-

Table 7

Summary of Detections
Soil/Fill Samples - EU10
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-82**	**SS-83**	**SS-84**	**SS-85**	**SS-163-AS**	**SS-164-AS**
Sample ID:		**SS-38443-103118-JC-082**	**SS-38443-103118-JC-083**	**SS-38443-103118-JC-084**	**SS-38443-103118-JC-085**	**SS-38443-103118-JC-163**	**SS-38443-103118-JC-164**
Sample Date:		**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.25-2.25 ft BGS**	**0.33-0.83 ft BGS**	**0.25-0.75 ft BGS**
Parameters	**Units**						
Chromium	mg/kg	**80**	**9.6**	**15**	-	-	-
Chromium III (trivalent)	mg/kg	**80**	**9.6**	**15**	-	-	-
Chromium VI (hexavalent)	mg/kg	0.27 U	0.26 U	**0.44 J**	-	-	-
Cobalt	mg/kg	**4.4**	**3.2**	**7.7**	-	-	-
Copper	mg/kg	**66**	**23**	**20**	-	-	-
Iron	mg/kg	**27000**	**8100**	**18000**	-	-	-
Lead	mg/kg	**40**	**70**	**35**	-	-	-
Lead - coarse fraction	mg/kg	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-
Magnesium	mg/kg	**22000**	**38000**	**7300**	-	-	-
Manganese	mg/kg	**550**	**250**	**350**	-	-	-
Mercury	mg/kg	**0.031 J**	**0.024 J**	**0.042 J**	-	-	-
Nickel	mg/kg	**31**	**8.6**	**17**	-	-	-
Potassium	mg/kg	**590**	**650**	**1000**	-	-	-
Selenium	mg/kg	**0.37 J**	**0.69 J**	**0.82 J**	-	-	-
Silver	mg/kg	**0.091 J**	**0.060 J**	**0.053 J**	-	-	-
Sodium	mg/kg	**100 J**	**130 J**	**91 J**	-	-	-
Thallium	mg/kg	**0.10 J**	**0.13 J**	**0.28**	-	-	-
Vanadium	mg/kg	**14**	**17**	**28**	-	-	-
Zinc	mg/kg	**39**	**73**	**67**	-	-	-
PCBs							
Aroclor-1254 (PCB-1254)	ug/kg	25 U	**40 J**	**760 J**	-	-	-
Pesticides							
4,4'-DDD	ug/kg	1.6 U	1.6 U	8.2 U	-	-	-
4,4'-DDE	ug/kg	1.7 U	1.6 U	**30**	-	-	-
4,4'-DDT	ug/kg	1.2 U	1.2 U	**13 J**	-	-	-
alpha-BHC	ug/kg	1.0 U	0.97 U	5.1 U	-	-	-
alpha-Chlordane	ug/kg	1.6 U	1.6 U	8.4 U	-	-	-
beta-BHC	ug/kg	**5.1 J**	1.8 U	9.6 U	-	-	-
Dieldrin	ug/kg	1.2 U	1.2 U	6.1 U	-	-	-
Endrin aldehyde	ug/kg	1.4 U	1.4 U	7.3 U	-	-	-
gamma-Chlordane	ug/kg	1.3 U	1.3 U	6.9 U	-	-	-
Heptachlor epoxide	ug/kg	1.6 U	1.5 U	8.0 U	-	-	-
Methoxychlor	ug/kg	7.2 U	7.0 U	37 U	-	-	-
Dioxin/Furans							
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-

Table 7

Summary of Detections
Soil/Fill Samples - EU10
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-82**	**SS-83**	**SS-84**	**SS-85**	**SS-163-AS**	**SS-164-AS**
Sample ID:		**SS-38443-103118-JC-082**	**SS-38443-103118-JC-083**	**SS-38443-103118-JC-084**	**SS-38443-103118-JC-085**	**SS-38443-103118-JC-163**	**SS-38443-103118-JC-164**
Sample Date:		**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.25-2.25 ft BGS**	**0.33-0.83 ft BGS**	**0.25-0.75 ft BGS**
Parameters	**Units**						
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-
Asbestos							
Chrysotile asbestos	%	-	-	-	-	0.25 <	-
General Chemistry							
Cyanide (total)	mg/kg	**0.35 J**	0.21 U	0.23 U	-	-	-

Notes
< - Less than reported value.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 8

Summary of Detections
Soil/Fill Samples - EU11
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:							**BH89-13**	**BH114-18**	**BH114-18**	**BH115-18**	**BH116-18**
Sample ID:							**S-38443-062413-SM-029**	**S-38443-011118-JC-040**	**S-38443-011118-JC-041**	**S-38443-011118-JC-039**	**S-38443-011118-JC-038**
Sample Date:							**6/24/2013**	**1/11/2018**	**1/11/2018**	**1/11/2018**	**1/11/2018**
Sample Depth:							**18-20 ft BGS**	**3-5 ft BGS**	**3-5 ft BGS**	**3-5 ft BGS**	**11-13 ft BGS**
									Duplicate		
Parameters	**Units**	**Samples**	**Detects**	**Min Detect**	**Max Detect**	**Average (Detects)**					
Volatiles											
1,1,1-Trichloroethane	ug/kg	21	1	0.54	0.54	0.540	5.3 U	0.21 U	0.20 U	0.34 U	0.22 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	21	4	4.2	12	6.425	21 U	1.2 U	1.1 U	1.9 U	1.2 U
Acetone	ug/kg	18	4	25	60	48.750	21 U	2.8 U	2.6 U	19 U	2.9 U
Chlorobenzene	ug/kg	21	1	0.57	0.57	0.570	5.3 U	0.30 U	0.29 U	0.49 U	0.31 U
Chloroform (Trichloromethane)	ug/kg	21	1	0.4	0.4	0.400	**0.40 J**	0.21 U	0.20 U	0.34 U	0.22 U
cis-1,2-Dichloroethene	ug/kg	21	3	0.3	1.6	0.763	5.3 U	0.26 U	0.24 U	0.42 U	0.27 U
Ethylbenzene	ug/kg	21	2	0.3	8.6	4.450	5.3 U	**0.30 J**	0.23 U	**8.6 J**	0.26 U
Isopropyl benzene	ug/kg	21	1	1.4	1.4	1.400	5.3 U	0.18 U	0.17 U	**1.4 J**	0.19 U
Methyl cyclohexane	ug/kg	21	1	0.25	0.25	0.250	11 U	**0.25 J**	0.20 U	0.34 U	0.22 U
Methylene chloride	ug/kg	21	1	0.65	0.65	0.650	16 U	14 U	14 U	19 U	16 U
Tetrachloroethene	ug/kg	21	2	0.69	1.1	0.895	**0.69 J**	0.34 U	0.32 U	0.55 U	0.35 U
Toluene	ug/kg	21	5	0.32	75	15.848	5.3 U	**0.67 J**	**0.32 J**	**2.5 J**	0.32 U
Trichloroethene	ug/kg	21	10	0.45	2400	252.255	**36**	**0.45 J**	0.35 U	**3.5 J**	0.39 U
Xylenes (total)	ug/kg	21	3	1	6.4	2.833	11 U	0.37 U	0.35 U	**6.4 J**	0.38 U
Semi-Volatiles											
2-Methylnaphthalene	ug/kg	20	15	8.4	610	91.293	-	**19**	**8.4**	**21**	**120**
Acenaphthene	ug/kg	20	10	5	56	22.930	-	0.87 U	0.82 U	**6.9 J**	**24**
Acenaphthylene	ug/kg	20	13	4	120	34.392	-	**4.0 J**	0.38 U	0.52 U	**35**
Acetophenone	ug/kg	20	4	16	53	31.000	-	10 U	9.9 U	14 U	23 U
Anthracene	ug/kg	20	15	4.3	200	64.147	-	**4.3 J**	**6.0 J**	**6.9 J**	**100**
Benzaldehyde	ug/kg	20	4	24	55	33.500	-	14 U	13 U	18 U	30 U
Benzo(a)anthracene	ug/kg	20	19	11	1200	229.474	-	**35**	**64**	**30 J**	**360**
Benzo(a)pyrene	ug/kg	20	18	13	1400	248.000	-	**28**	**60**	**25 J**	**430**
Benzo(b)fluoranthene	ug/kg	20	19	14	2000	333.053	-	**45**	**77**	**48 J**	**620**
Benzo(g,h,i)perylene	ug/kg	20	19	8.5	940	145.816	-	**27**	**41**	**24 J**	**190**
Benzo(k)fluoranthene	ug/kg	20	18	7.6	640	129.072	-	**14**	**31**	**16 J**	**240**
Biphenyl (1,1-Biphenyl)	ug/kg	20	5	7.4	56	29.280	-	4.0 U	3.8 U	5.2 U	**36 J**
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	20	5	23	630	168.200	-	**28 J**	**23 J**	28 U	48 U
Butyl benzylphthalate (BBP)	ug/kg	20	1	41	41	41.000	-	11 U	11 U	15 U	25 U
Caprolactam	ug/kg	20	1	44	44	44.000	-	42 U	40 U	55 U	93 U
Carbazole	ug/kg	20	7	25	120	64.714	-	31 U	29 U	40 U	68 U
Chrysene	ug/kg	20	19	13	1300	262.368	-	**43**	**85**	**42 J**	**470**
Dibenz(a,h)anthracene	ug/kg	20	10	10	220	67.800	-	0.75 U	**10**	0.98 UJ	**63**
Dibenzofuran	ug/kg	20	11	11	150	41.636	-	0.75 U	0.71 U	**11 J**	**68 J**
Diethyl phthalate	ug/kg	20	1	21	21	21.000	-	18 U	**21 J**	24 U	40 U
Di-n-butylphthalate (DBP)	ug/kg	20	1	27	27	27.000	-	17 U	16 U	22 U	38 U
Fluoranthene	ug/kg	20	19	16	2000	391.895	-	**46**	**67**	**86 J**	**720**
Fluorene	ug/kg	20	12	3.8	85	31.717	-	0.60 U	0.57 U	0.79 U	**53**
Hexachlorobutadiene	ug/kg	20	1	13	13	13.000	-	6.4 U	6.0 U	8.3 U	14 U
Indeno(1,2,3-cd)pyrene	ug/kg	20	18	8.8	910	138.644	-	**18**	**26**	**15 J**	**180**
Naphthalene	ug/kg	20	15	5.7	400	67.247	-	**12**	**5.7 J**	**20**	**110**
Phenanthrene	ug/kg	20	19	11	900	248.789	-	**26**	**24**	**90 J**	**570**
Phenol	ug/kg	20	1	53	53	53.000	-	8.3 U	7.9 U	11 U	18 U
Pyrene	ug/kg	20	19	19	1800	368.789	-	**59**	**100**	**73 J**	**610**

Table 8

Summary of Detections
Soil/Fill Samples - EU11
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:							BH89-13	BH114-18	BH114-18	BH115-18	BH116-18
Sample ID:							S-38443-062413-SM-029	S-38443-011118-JC-040	S-38443-011118-JC-041	S-38443-011118-JC-039	S-38443-011118-JC-038
Sample Date:							6/24/2013	1/11/2018	1/11/2018	1/11/2018	1/11/2018
Sample Depth:							18-20 ft BGS	3-5 ft BGS	3-5 ft BGS	3-5 ft BGS	11-13 ft BGS
									Duplicate		
Parameters	**Units**	**Samples**	**Detects**	**Min Detect**	**Max Detect**	**Average (Detects)**					
Metals											
Aluminum	mg/kg	20	20	1240	14000	5403.000	-	**5900 J**	**3900 J**	**14000 J**	**12000 J**
Antimony	mg/kg	20	15	0.19	2.8	0.779	-	**0.60 J**	**0.23 J**	**1.1 J**	**2.8 J**
Arsenic	mg/kg	20	20	2.7	45	9.650	-	**11**	**7.9**	**45**	**13**
Barium	mg/kg	20	20	12.7	440	91.590	-	**68 J**	**42 J**	**440 J**	**200 J**
Beryllium	mg/kg	20	19	0.051	6.5	0.743	-	**0.48**	**0.28**	**6.5**	**0.96**
Cadmium	mg/kg	20	18	0.057	19	1.493	-	**0.42**	**0.40**	**0.31**	**19**
Calcium	mg/kg	20	20	580	162000	72019.000	-	**87000**	**150000**	**3400**	**65000**
Chromium	mg/kg	21	21	2.4	33	13.262	-	**12**	**8.8**	**33**	**13**
Chromium III (trivalent)	mg/kg	13	13	7.1	32	14.015	-	**12**	**8.8**	**32**	**13**
Chromium VI (hexavalent)	mg/kg	13	3	0.32	0.69	0.537	-	**0.32 J**	0.26 U	**0.69 J**	1.5 U
Cobalt	mg/kg	20	20	1.5	22	5.330	-	**5.4**	**4.3**	**22**	**6.3**
Copper	mg/kg	20	20	6	410	66.795	-	**24**	**13**	**64**	**410**
Iron	mg/kg	20	20	4060	63700	16391.000	-	**13000**	**9300**	**8200**	**22000**
Lead	mg/kg	20	20	2.5	160	48.915	-	**27**	**18**	**34**	**120**
Lead - coarse fraction	mg/kg	2	2	31	82	56.500	-	-	-	-	-
Lead - fine fraction	mg/kg	2	2	85	150	117.500	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	2	2	35	89	62.000	-	-	-	-	-
Magnesium	mg/kg	20	20	550	83000	29118.500	-	**38000**	**36000**	**820**	**32000**
Manganese	mg/kg	20	20	46	734	360.950	-	**470**	**710**	**46**	**420**
Mercury	mg/kg	20	18	0.023	0.85	0.177	-	**0.024 J**	**0.026 J**	**0.55**	**0.32**
Nickel	mg/kg	20	20	4	36	15.730	-	**14**	**10**	**36**	**35**
Potassium	mg/kg	20	20	170	1600	656.350	-	**690**	**480**	**1600**	**820**
Selenium	mg/kg	20	13	0.17	7.3	1.612	-	**0.71 J**	**0.47 J**	**3.1**	**7.3**
Silver	mg/kg	20	14	0.029	0.44	0.099	-	**0.051 J**	**0.029 J**	**0.10 J**	**0.44**
Sodium	mg/kg	20	17	78	883	282.412	-	**130 J**	**130 J**	**450**	**210 J**
Thallium	mg/kg	20	13	0.12	1.4	0.290	-	**0.22**	**0.20 J**	**1.4**	**0.26**
Vanadium	mg/kg	20	20	4.6	72	18.380	-	**17**	**11**	**72**	**18**
Zinc	mg/kg	20	20	16.4	1200	128.090	-	**140**	**52**	**48**	**1200**
PCBs											
Aroclor-1254 (PCB-1254)	ug/kg	20	7	20	910	232.286	-	26 U	25 U	34 U	29 U
Aroclor-1260 (PCB-1260)	ug/kg	20	2	23	36	29.500	-	25 U	24 U	33 U	27 U
Pesticides											
4,4'-DDE	ug/kg	20	2	24	43	33.500	-	1.4 U	1.3 U	1.8 U	15 U
4,4'-DDT	ug/kg	20	1	3.1	3.1	3.100	-	1.6 U	1.5 U	**3.1 J**	17 U
Endrin aldehyde	ug/kg	20	1	5.4	5.4	5.400	-	2.1 U	1.9 U	**5.4 J**	22 U
gamma-Chlordane	ug/kg	20	1	29	29	29.000	-	1.7 U	1.6 U	2.2 U	19 U
Methoxychlor	ug/kg	20	1	2.7	2.7	2.700	-	**2.7 J**	1.3 U	1.8 U	15 U
Dioxin/Furans											
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	1	1	150	150	150.000	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	1	1	7.1	7.1	7.100	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	1	1	27	27	27.000	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	1	1	1.2	1.2	1.200	-	-	-	-	-

Table 8

Summary of Detections
Soil/Fill Samples - EU11
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:							**BH89-13**	**BH114-18**	**BH114-18**	**BH115-18**	**BH116-18**
Sample ID:							**S-38443-062413-SM-029**	**S-38443-011118-JC-040**	**S-38443-011118-JC-041**	**S-38443-011118-JC-039**	**S-38443-011118-JC-038**
Sample Date:							**6/24/2013**	**1/11/2018**	**1/11/2018**	**1/11/2018**	**1/11/2018**
Sample Depth:							**18-20 ft BGS**	**3-5 ft BGS**	**3-5 ft BGS**	**3-5 ft BGS**	**11-13 ft BGS**
									Duplicate		
Parameters	**Units**	**Samples**	**Detects**	**Min Detect**	**Max Detect**	**Average (Detects)**					
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	1	1	0.51	0.51	0.510	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	1	1	0.85	0.85	0.850	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	1	1	4.5	4.5	4.500	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	1	1	2.3	2.3	2.300	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	1	1	0.27	0.27	0.270	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	1	1	0.66	0.66	0.660	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	1	1	0.63	0.63	0.630	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	1	1	0.39	0.39	0.390	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	1	1	1.1	1.1	1.100	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	1	1	0.17	0.17	0.170	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	1	1	18	18	18.000	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	1	1	51	51	51.000	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	1	1	14	14	14.000	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	1	1	32	32	32.000	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	1	1	12	12	12.000	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	1	1	31	31	31.000	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	1	1	19	19	19.000	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	1	1	2.6	2.6	2.600	-	-	-	-	-
Asbestos											
Chrysotile asbestos	%	1	1	2	2	2.000	-	-	-	-	**2**
General Chemistry											
Cyanide (total)	mg/kg	20	5	0.13	0.51	0.268	-	0.15 U	0.13 U	0.25 U	0.59 U
Total solids	%	6	6	90.2	92.5	91.650	-	-	-	-	-

Notes
J - Estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 8

Summary of Detections
Soil/Fill Samples - EU11
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH175-17**	**BH175-17**	**SS-25**	**SS-70**	**SS-71**	**SS-72**	**SS-73**
Sample ID:		**S-38443-121817-JC-008**	**S-38443-121817-JC-009**	**S-38443-110117-BW-011**	**SS-38443-103018-JC-070**	**SS-38443-103018-JC-071**	**SS-38443-103018-JC-072**	**SS-38443-103018-JC-073**
Sample Date:		**12/18/2017**	**12/18/2017**	**11/1/2017**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**
Sample Depth:		**13-15 ft BGS**	**15.5-17.5 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.5-2.25 ft BGS**	**0.17-2.17 ft BGS**
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/kg	-	0.23 U	**0.54 J**	0.73 U	0.85 U	0.76 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	-	1.3 U	1.5 U	3.2 U	**4.4 J**	**12 J**	**5.1 J**
Acetone	ug/kg	-	26 U	3.5 U	19 U	**53**	**57**	**60**
Chlorobenzene	ug/kg	-	0.34 U	0.38 U	0.82 U	0.95 U	0.85 U	1.2 U
Chloroform (Trichloromethane)	ug/kg	-	0.23 U	0.26 U	0.71 U	0.82 U	0.73 U	0.99 U
cis-1,2-Dichloroethene	ug/kg	-	0.29 U	**0.39 J**	0.58 U	0.68 U	**1.6 J**	0.82 U
Ethylbenzene	ug/kg	-	0.27 U	0.31 U	0.94 U	1.1 U	0.98 U	1.3 U
Isopropyl benzene	ug/kg	-	0.20 U	0.23 U	0.75 U	0.86 U	0.78 U	1.0 U
Methyl cyclohexane	ug/kg	-	0.23 U	0.26 U	1.1 U	1.3 U	1.1 U	1.5 U
Methylene chloride	ug/kg	-	0.24 U	0.27 U	11 U	12 U	11 U	15 U
Tetrachloroethene	ug/kg	-	0.38 U	**1.1 J**	0.65 U	0.76 U	0.68 U	0.92 U
Toluene	ug/kg	-	0.35 U	0.39 U	0.69 U	0.80 U	0.72 U	0.97 U
Trichloroethene	ug/kg	-	0.42 U	**67**	0.57 U	**1.7 J**	0.59 U	**1.7 J**
Xylenes (total)	ug/kg	-	0.41 U	0.46 U	1.4 U	1.6 U	1.5 U	2.0 U
Semi-Volatiles								
2-Methylnaphthalene	ug/kg	-	**140**	**32**	**77**	**15 J**	**47**	**610**
Acenaphthene	ug/kg	-	0.88 U	**5.0 J**	**12 J**	3.1 U	**17**	**17**
Acenaphthylene	ug/kg	-	**6.1 J**	**5.1 J**	**13 J**	**46**	**120**	**64**
Acetophenone	ug/kg	-	**16 J**	**26 J**	12 U	12 U	12 U	**53 J**
Anthracene	ug/kg	-	**31**	**27**	**33**	**14 J**	**78**	**50**
Benzaldehyde	ug/kg	-	**24 J**	**25 J**	25 U	25 U	25 U	**55 J**
Benzo(a)anthracene	ug/kg	-	**63**	**25**	**130**	**61**	**400**	**410**
Benzo(a)pyrene	ug/kg	-	**35**	**33**	**120**	**80**	**380**	**410**
Benzo(b)fluoranthene	ug/kg	-	**140**	**59**	**200**	**100**	**580**	**570**
Benzo(g,h,i)perylene	ug/kg	-	**38**	**27**	**85**	**100**	**190**	**210**
Benzo(k)fluoranthene	ug/kg	-	**41**	**28**	**67**	**28**	**190**	**220**
Biphenyl (1,1-Biphenyl)	ug/kg	-	**33 J**	**7.4 J**	18 U	19 U	18 U	**56 J**
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	-	**91**	**630**	55 U	56 U	55 U	58 U
Butyl benzylphthalate (BBP)	ug/kg	-	12 U	11 U	**41 J**	24 U	24 U	25 U
Caprolactam	ug/kg	-	43 U	**44 J**	80 U	82 U	81 U	85 U
Carbazole	ug/kg	-	31 U	29 U	**39 J**	**25 J**	**62**	**46 J**
Chrysene	ug/kg	-	**110**	**40**	**190**	**74**	**490**	**510**
Dibenz(a,h)anthracene	ug/kg	-	0.76 U	0.71 U	**28**	**19**	**57**	**74**
Dibenzofuran	ug/kg	-	**32 J**	**13 J**	**25 J**	14 U	**20 J**	**150**
Diethyl phthalate	ug/kg	-	19 U	17 U	33 U	34 U	34 U	35 U
Di-n-butylphthalate (DBP)	ug/kg	-	17 U	16 U	24 U	24 U	**27 J**	25 U
Fluoranthene	ug/kg	-	**90**	**52**	**270**	**62**	**740**	**400**
Fluorene	ug/kg	-	**20**	**6.5 J**	**14 J**	**3.8 J**	**42**	**23**
Hexachlorobutadiene	ug/kg	-	**13 J**	6.0 U	13 U	13 U	13 U	14 U
Indeno(1,2,3-cd)pyrene	ug/kg	-	**34**	**23**	**60**	**55**	**160**	**190**
Naphthalene	ug/kg	-	**98**	**34**	**48**	**11 J**	**44**	**400**
Phenanthrene	ug/kg	-	**190**	**67**	**220**	**34**	**400**	**440**
Phenol	ug/kg	-	**53 J**	7.9 U	8.6 U	8.8 U	8.7 U	9.1 U
Pyrene	ug/kg	-	**78**	**56**	**240**	**90**	**760**	**460**

Table 8

Summary of Detections
Soil/Fill Samples - EU11
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH175-17**	**BH175-17**	**SS-25**	**SS-70**	**SS-71**	**SS-72**	**SS-73**
Sample ID:		**S-38443-121817-JC-008**	**S-38443-121817-JC-009**	**S-38443-110117-BW-011**	**SS-38443-103018-JC-070**	**SS-38443-103018-JC-071**	**SS-38443-103018-JC-072**	**SS-38443-103018-JC-073**
Sample Date:		**12/18/2017**	**12/18/2017**	**11/1/2017**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**
Sample Depth:		**13-15 ft BGS**	**15.5-17.5 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.5-2.25 ft BGS**	**0.17-2.17 ft BGS**
Parameters	**Units**							
Metals								
Aluminum	mg/kg	-	**2100**	**3500 J**	**4500**	**9000**	**4200**	**4100**
Antimony	mg/kg	-	**0.34 J**	**0.69 J**	**0.19 J**	**0.27 J**	**0.25 J**	**0.19 J**
Arsenic	mg/kg	-	**12**	**3.9**	**6.5**	**13**	**6.1**	**5.2**
Barium	mg/kg	-	**63**	**35 J**	**40**	**79**	**85**	**54**
Beryllium	mg/kg	-	**0.41**	**0.22**	**0.28**	**0.49**	**0.40**	**0.37**
Cadmium	mg/kg	-	**0.63**	**0.67**	**0.24**	**0.71**	**0.35**	**1.0**
Calcium	mg/kg	-	**580**	**52000**	**110000**	**63000**	**100000 J**	**150000**
Chromium	mg/kg	**7.1**	**23**	**25**	**7.4**	**13**	**7.7**	**7.2**
Chromium III (trivalent)	mg/kg	**7.1**	**23**	-	**7.4**	**13**	**7.7**	**7.2**
Chromium VI (hexavalent)	mg/kg	1.6 U	0.28 U	-	0.26 U	0.27 U	0.26 U	0.28 U
Cobalt	mg/kg	-	**3.7**	**4.7**	**3.7**	**5.4**	**3.5**	**3.5**
Copper	mg/kg	-	**47**	**120**	**19**	**16**	**38**	**11**
Iron	mg/kg	-	**34000**	**15000**	**17000**	**14000**	**8900**	**8200**
Lead	mg/kg	-	**14**	**140 J**	**35 J**	**17 J**	**160**	**19 J**
Lead - coarse fraction	mg/kg	-	-	-	**31**	-	**82**	-
Lead - fine fraction	mg/kg	-	-	-	**85**	-	**150**	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	**35**	-	**89**	-
Magnesium	mg/kg	-	**550**	**26000**	**50000**	**32000**	**39000 J**	**83000**
Manganese	mg/kg	-	**300**	**390**	**390**	**480**	**330**	**280**
Mercury	mg/kg	-	0.019 U	**0.026 J**	**0.19**	**0.023 J**	**0.056 J**	**0.037 J**
Nickel	mg/kg	-	**25**	**19 J**	**12**	**12**	**11**	**7.6**
Potassium	mg/kg	-	**170 J**	**410**	**710**	**900**	**600**	**660**
Selenium	mg/kg	-	**4.6**	0.93 U	**0.17 J**	**0.36 J**	**0.30 J**	**0.20 J**
Silver	mg/kg	-	**0.069 J**	**0.16 J**	**0.042 J**	**0.039 J**	**0.059 J**	**0.044 J**
Sodium	mg/kg	-	**130 J**	100 U	**130 J**	**170 J**	**320**	**240**
Thallium	mg/kg	-	**0.23 J**	**0.12 J**	**0.13 J**	**0.16 J**	**0.12 J**	**0.13 J**
Vanadium	mg/kg	-	**6.0**	**8.6**	**33**	**23**	**13**	**12**
Zinc	mg/kg	-	**30**	**58**	**52 J**	**74 J**	**100 J**	**38 J**
PCBs								
Aroclor-1254 (PCB-1254)	ug/kg	-	**37 J**	**390**	24 U	25 U	**96**	25 U
Aroclor-1260 (PCB-1260)	ug/kg	-	25 U	19 U	**23 J**	**36 J**	24 U	24 U
Pesticides								
4,4'-DDE	ug/kg	-	6.9 U	26 U	16 U	16 U	16 U	17 U
4,4'-DDT	ug/kg	-	8.0 U	30 U	12 U	12 U	12 U	13 U
Endrin aldehyde	ug/kg	-	10 U	39 U	14 U	14 U	14 U	15 U
gamma-Chlordane	ug/kg	-	8.6 U	32 U	13 U	13 U	13 U	14 U
Methoxychlor	ug/kg	-	6.9 U	26 U	69 U	71 U	70 U	73 U
Dioxin/Furans								
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-

Table 8

Summary of Detections
Soil/Fill Samples - EU11
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH175-17**	**BH175-17**	**SS-25**	**SS-70**	**SS-71**	**SS-72**	**SS-73**
Sample ID:		**S-38443-121817-JC-008**	**S-38443-121817-JC-009**	**S-38443-110117-BW-011**	**SS-38443-103018-JC-070**	**SS-38443-103018-JC-071**	**SS-38443-103018-JC-072**	**SS-38443-103018-JC-073**
Sample Date:		**12/18/2017**	**12/18/2017**	**11/1/2017**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**
Sample Depth:		**13-15 ft BGS**	**15.5-17.5 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.5-2.25 ft BGS**	**0.17-2.17 ft BGS**
Parameters	**Units**							
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Asbestos								
Chrysotile asbestos	%	-	-	-	-	-	-	-
General Chemistry								
Cyanide (total)	mg/kg	-	**0.13 J**	0.46 U	0.18 U	0.20 U	0.22 U	**0.21 J**
Total solids	%	-	-	-	-	-	-	-

Notes
J - Estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 8

Summary of Detections
Soil/Fill Samples - EU11
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-74**	**SS-75**	**SS-76**	**SS-77**	**SS-165-AS**	**SS-166-AS**	**TP-13**
Sample ID:		**SS-38443-103018-JC-074**	**SS-38443-103018-JC-075**	**SS-38443-103018-JC-076**	**SS-38443-103018-JC-077**	**SS-38443-103018-JC-165**	**SS-38443-103018-JC-166**	**S-38443-110117-BW-012**
Sample Date:		**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**11/1/2017**
Sample Depth:		**0-2 ft BGS**	**0.5-2.5 ft BGS**	**0-2 ft BGS**	**0.5-2.5 ft BGS**	**0.5-1 ft BGS**	**0.5-1 ft BGS**	**8-10 ft BGS**
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/kg	0.78 U	0.89 U	0.96 U	-	-	-	77 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	3.4 U	**4.2 J**	4.2 U	-	-	-	140 U
Acetone	ug/kg	20 U	**25 J**	25 U	-	-	-	270 U
Chlorobenzene	ug/kg	0.87 U	1.0 U	1.1 U	-	-	-	82 U
Chloroform (Trichloromethane)	ug/kg	0.75 U	0.86 U	0.92 U	-	-	-	66 U
cis-1,2-Dichloroethene	ug/kg	0.62 U	0.71 U	1.2 U	-	-	-	96 U
Ethylbenzene	ug/kg	1.0 U	1.1 U	1.2 U	-	-	-	96 U
Isopropyl benzene	ug/kg	0.79 U	0.91 U	0.97 U	-	-	-	93 U
Methyl cyclohexane	ug/kg	1.2 U	1.3 U	1.4 U	-	-	-	100 U
Methylene chloride	ug/kg	11 U	13 U	14 U	-	-	-	180 U
Tetrachloroethene	ug/kg	0.70 U	0.80 U	0.85 U	-	-	-	58 U
Toluene	ug/kg	0.74 U	0.84 U	0.90 U	-	-	-	**75 J**
Trichloroethene	ug/kg	0.60 U	0.69 U	**1.1 J**	-	-	-	**2400**
Xylenes (total)	ug/kg	1.5 U	1.7 U	1.9 U	-	-	-	77 U
Semi-Volatiles								
2-Methylnaphthalene	ug/kg	**44**	**74**	**72**	-	-	-	**72**
Acenaphthene	ug/kg	**48**	**36**	3.3 U	-	-	-	0.85 U
Acenaphthylene	ug/kg	**21 J**	**56**	4.7 U	-	-	-	**6.9 J**
Acetophenone	ug/kg	23 U	13 U	13 U	-	-	-	**29 J**
Anthracene	ug/kg	**200**	**180**	2.8 U	-	-	-	**12**
Benzaldehyde	ug/kg	49 U	26 U	27 U	-	-	-	**30 J**
Benzo(a)anthracene	ug/kg	**1200**	**470**	**11 J**	-	-	-	**37**
Benzo(a)pyrene	ug/kg	**1400**	**440**	11 U	-	-	-	**30**
Benzo(b)fluoranthene	ug/kg	**2000**	**550**	**14 J**	-	-	-	**53**
Benzo(g,h,i)perylene	ug/kg	**940**	**200**	**8.5 J**	-	-	-	**24**
Benzo(k)fluoranthene	ug/kg	**640**	**230**	8.1 U	-	-	-	**15**
Biphenyl (1,1-Biphenyl)	ug/kg	36 U	20 U	20 U	-	-	-	**14 J**
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	110 U	**69 J**	59 U	-	-	-	54 U
Butyl benzylphthalate (BBP)	ug/kg	47 U	25 U	26 U	-	-	-	11 U
Caprolactam	ug/kg	160 U	86 U	87 U	-	-	-	41 U
Carbazole	ug/kg	**120**	**83**	22 U	-	-	-	30 U
Chrysene	ug/kg	**1300**	**480**	**17**	-	-	-	**54**
Dibenz(a,h)anthracene	ug/kg	**220**	**61**	8.0 U	-	-	-	0.73 U
Dibenzofuran	ug/kg	**49 J**	**54 J**	**24 J**	-	-	-	**12 J**
Diethyl phthalate	ug/kg	66 U	36 U	36 U	-	-	-	18 U
Di-n-butylphthalate (DBP)	ug/kg	47 U	25 U	26 U	-	-	-	17 U
Fluoranthene	ug/kg	**2000**	**830**	**16 J**	-	-	-	**75**
Fluorene	ug/kg	**56**	**85**	3.2 U	-	-	-	**8.5**
Hexachlorobutadiene	ug/kg	25 U	14 U	14 U	-	-	-	6.2 U
Indeno(1,2,3-cd)pyrene	ug/kg	**910**	**190**	8.6 U	-	-	-	**17**
Naphthalene	ug/kg	**33**	**50**	**41**	-	-	-	**77**
Phenanthrene	ug/kg	**900**	**600**	**60**	-	-	-	**87**
Phenol	ug/kg	17 U	9.2 U	9.3 U	-	-	-	8.1 U
Pyrene	ug/kg	**1800**	**860**	**19**	-	-	-	**77**

Table 8

Summary of Detections
Soil/Fill Samples - EU11
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-74**	**SS-75**	**SS-76**	**SS-77**	**SS-165-AS**	**SS-166-AS**	**TP-13**
Sample ID:		**SS-38443-103018-JC-074**	**SS-38443-103018-JC-075**	**SS-38443-103018-JC-076**	**SS-38443-103018-JC-077**	**SS-38443-103018-JC-165**	**SS-38443-103018-JC-166**	**S-38443-110117-BW-012**
Sample Date:		**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**11/1/2017**
Sample Depth:		**0-2 ft BGS**	**0.5-2.5 ft BGS**	**0-2 ft BGS**	**0.5-2.5 ft BGS**	**0.5-1 ft BGS**	**0.5-1 ft BGS**	**8-10 ft BGS**
Parameters	**Units**							
Metals								
Aluminum	mg/kg	**3300**	**11000**	**4500**	-	-	-	**4000 J**
Antimony	mg/kg	**0.39 J**	**2.4 J**	**0.23 J**	-	-	-	**0.30 J**
Arsenic	mg/kg	**7.1**	**11**	**8.1**	-	-	-	**11**
Barium	mg/kg	**60**	**99**	**240**	-	-	-	**69 J**
Beryllium	mg/kg	**0.23**	**1.1**	**0.62**	-	-	-	**0.83**
Cadmium	mg/kg	**1.0**	**0.21**	**0.61**	-	-	-	**0.24**
Calcium	mg/kg	**99000**	**36000 J**	**28000**	-	-	-	**33000**
Chromium	mg/kg	**24**	**15**	**12**	-	-	-	**26**
Chromium III (trivalent)	mg/kg	**24**	**15**	**12**	-	-	-	-
Chromium VI (hexavalent)	mg/kg	0.26 U	1.4 U	**0.60 J**	-	-	-	-
Cobalt	mg/kg	**3.8**	**6.9**	**6.2**	-	-	-	**6.6**
Copper	mg/kg	**39**	**85**	**25**	-	-	-	**51**
Iron	mg/kg	**20000**	**25000**	**12000**	-	-	-	**21000**
Lead	mg/kg	**41 J**	**71**	**51 J**	-	-	-	**31 J**
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-
Magnesium	mg/kg	**32000**	**15000 J**	**12000**	-	-	-	**4400**
Manganese	mg/kg	**390**	**290**	**550**	-	-	-	**470**
Mercury	mg/kg	**0.15**	**0.85**	**0.18**	-	-	-	**0.082 J**
Nickel	mg/kg	**20**	**19**	**17**	-	-	-	**23 J**
Potassium	mg/kg	**480**	**1300**	**700**	-	-	-	**310**
Selenium	mg/kg	**0.19 J**	**0.50 J**	**0.45 J**	-	-	-	**2.6**
Silver	mg/kg	**0.11 J**	**0.097 J**	**0.078 J**	-	-	-	**0.071 J**
Sodium	mg/kg	**120 J**	**590**	**78 J**	-	-	-	170 U
Thallium	mg/kg	0.095 U	**0.24**	**0.17 J**	-	-	-	**0.39 J**
Vanadium	mg/kg	**15**	**28**	**16**	-	-	-	**14**
Zinc	mg/kg	**88 J**	**100 J**	**93 J**	-	-	-	**40**
PCBs								
Aroclor-1254 (PCB-1254)	ug/kg	**140**	**910**	26 U	-	-	-	**33 J**
Aroclor-1260 (PCB-1260)	ug/kg	23 U	25 U	25 U	-	-	-	20 U
Pesticides								
4,4'-DDE	ug/kg	16 U	17 U	17 U	-	-	-	13 U
4,4'-DDT	ug/kg	12 U	13 U	13 U	-	-	-	15 U
Endrin aldehyde	ug/kg	14 U	15 U	15 U	-	-	-	20 U
gamma-Chlordane	ug/kg	13 U	14 U	14 U	-	-	-	16 U
Methoxychlor	ug/kg	68 U	73 U	74 U	-	-	-	13 U
Dioxin/Furans								
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	**150**
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	**7.1**
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	**27**
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	**1.2 J**

Table 8

Summary of Detections
Soil/Fill Samples - EU11
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-74**	**SS-75**	**SS-76**	**SS-77**	**SS-165-AS**	**SS-166-AS**	**TP-13**
Sample ID:		**SS-38443-103018-JC-074**	**SS-38443-103018-JC-075**	**SS-38443-103018-JC-076**	**SS-38443-103018-JC-077**	**SS-38443-103018-JC-165**	**SS-38443-103018-JC-166**	**S-38443-110117-BW-012**
Sample Date:		**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**11/1/2017**
Sample Depth:		**0-2 ft BGS**	**0.5-2.5 ft BGS**	**0-2 ft BGS**	**0.5-2.5 ft BGS**	**0.5-1 ft BGS**	**0.5-1 ft BGS**	**8-10 ft BGS**
Parameters	**Units**							
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	**0.51 J**
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	**0.85 J**
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	**4.5 J**
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	**2.3 J**
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	**0.27 J**
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	**0.66 J**
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	**0.63 J**
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	**0.39 J**
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	**1.1**
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	**0.17 J**
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	**18 J**
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	**51 J**
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	**14 J**
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	**32 J**
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	**12 J**
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	**31 J**
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	**19 J**
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	**2.6 J**
Asbestos								
Chrysotile asbestos	%	-	-	-	-	-	-	-
General Chemistry								
Cyanide (total)	mg/kg	0.20 U	**0.27 J**	**0.22 J**	-	-	-	0.50 U
Total solids	%	-	-	-	-	-	-	-

Notes
J - Estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 8

Summary of Detections
Soil/Fill Samples - EU11
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-11**	**TT-11**	**TT-11**	**TT-12**	**TT-12**	**TT-12**
Sample ID:		**S-38443-100208-KMV-041**	**S-38443-100208-KMV-042**	**S-38443-100208-KMV-043**	**S-38443-100208-KMV-038**	**S-38443-100208-KMV-039**	**S-38443-100208-KMV-040**
Sample Date:		**10/2/2008**	**10/2/2008**	**10/2/2008**	**10/2/2008**	**10/2/2008**	**10/2/2008**
Sample Depth:		**5 ft BGS**	**10 ft BGS**	**21 ft BGS**	**5 ft BGS**	**10 ft BGS**	**21 ft BGS**
Parameters	**Units**						
Volatiles							
1,1,1-Trichloroethane	ug/kg	4.4 U	5.3 U	4.7 U	4.4 U	4.2 U	4.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	18 U	21 U	19 U	18 U	17 U	16 U
Acetone	ug/kg	18 U	R	R	R	17 U	16 U
Chlorobenzene	ug/kg	4.4 U	5.3 U	4.7 U	4.4 U	4.2 U	**0.57 J**
Chloroform (Trichloromethane)	ug/kg	4.4 U	5.3 U	4.7 U	4.4 U	4.2 U	4.0 U
cis-1,2-Dichloroethene	ug/kg	4.4 U	5.3 U	4.7 U	4.4 U	4.2 U	**0.30 J**
Ethylbenzene	ug/kg	4.4 U	5.3 U	4.7 U	4.4 U	4.2 U	4.0 U
Isopropyl benzene	ug/kg	4.4 U	5.3 U	4.7 U	4.4 U	4.2 U	4.0 U
Methyl cyclohexane	ug/kg	8.9 U	11 U	9.4 U	8.9 U	8.5 U	8.0 U
Methylene chloride	ug/kg	4.4 U	5.3 U	**0.65 J**	4.4 U	4.2 U	4.0 U
Tetrachloroethene	ug/kg	4.4 U	5.3 U	4.7 U	4.4 U	4.2 U	4.0 U
Toluene	ug/kg	4.4 U	5.3 U	4.7 U	4.4 U	4.2 U	**0.75 J**
Trichloroethene	ug/kg	4.4 U	5.3 U	**10**	4.4 U	4.2 U	**1.1 J**
Xylenes (total)	ug/kg	**1.1 J**	11 U	9.4 U	8.9 U	**1.0 J**	8.0 U
Semi-Volatiles							
2-Methylnaphthalene	ug/kg	7.2 U	**18**	7.2 U	7.4 U	7.2 U	7.4 U
Acenaphthene	ug/kg	**7.4**	**56**	7.2 U	7.4 U	7.2 U	7.4 U
Acenaphthylene	ug/kg	**25**	**45**	7.2 U	7.4 U	7.2 U	7.4 U
Acetophenone	ug/kg	110 U	220 U	110 U	110 U	110 U	110 U
Anthracene	ug/kg	**40**	**180**	7.2 U	7.4 U	7.2 U	7.4 U
Benzaldehyde	ug/kg	110 U	220 U	110 U	110 U	110 U	110 U
Benzo(a)anthracene	ug/kg	**240**	**760**	7.2 U	**14**	**35**	**15**
Benzo(a)pyrene	ug/kg	**270**	**660**	7.2 U	**13**	**36**	**14**
Benzo(b)fluoranthene	ug/kg	**350**	**850**	7.2 U	**15**	**39**	**18**
Benzo(g,h,i)perylene	ug/kg	**200**	**420**	7.2 U	**14**	**21**	**11**
Benzo(k)fluoranthene	ug/kg	**170**	**360**	7.2 U	**7.6**	**18**	**7.7**
Biphenyl (1,1-Biphenyl)	ug/kg	54 U	110 U	54 U	55 U	54 U	55 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	54 U	110 U	54 U	55 U	54 U	55 U
Butyl benzylphthalate (BBP)	ug/kg	54 U	110 U	54 U	55 U	54 U	55 U
Caprolactam	ug/kg	360 U	720 U	360 U	370 U	360 U	370 U
Carbazole	ug/kg	54 U	**78 J**	54 U	55 U	54 U	55 U
Chrysene	ug/kg	**250**	**770**	7.2 U	**13**	**32**	**15**
Dibenz(a,h)anthracene	ug/kg	**36**	**110**	7.2 U	7.4 U	7.2 U	7.4 U
Dibenzofuran	ug/kg	54 U	110 U	54 U	55 U	54 U	55 U
Diethyl phthalate	ug/kg	54 U	110 U	54 U	55 U	54 U	55 U
Di-n-butylphthalate (DBP)	ug/kg	54 U	110 U	54 U	55 U	54 U	55 U
Fluoranthene	ug/kg	**400**	**1500**	7.2 U	**24**	**43**	**25**
Fluorene	ug/kg	**9.8**	**59**	7.2 U	7.4 U	7.2 U	7.4 U
Hexachlorobutadiene	ug/kg	54 U	110 U	54 U	55 U	54 U	55 U
Indeno(1,2,3-cd)pyrene	ug/kg	**190**	**390**	7.2 U	**8.8**	**20**	**8.8**
Naphthalene	ug/kg	7.2 U	**25**	7.2 U	7.4 U	7.2 U	7.4 U
Phenanthrene	ug/kg	**130**	**850**	7.2 U	**11**	**15**	**13**
Phenol	ug/kg	54 U	110 U	54 U	55 U	54 U	55 U
Pyrene	ug/kg	**340**	**1300**	7.2 U	**21**	**40**	**24**

Table 8

Summary of Detections
Soil/Fill Samples - EU11
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-11**	**TT-11**	**TT-11**	**TT-12**	**TT-12**	**TT-12**
Sample ID:		**S-38443-100208-KMV-041**	**S-38443-100208-KMV-042**	**S-38443-100208-KMV-043**	**S-38443-100208-KMV-038**	**S-38443-100208-KMV-039**	**S-38443-100208-KMV-040**
Sample Date:		**10/2/2008**	**10/2/2008**	**10/2/2008**	**10/2/2008**	**10/2/2008**	**10/2/2008**
Sample Depth:		**5 ft BGS**	**10 ft BGS**	**21 ft BGS**	**5 ft BGS**	**10 ft BGS**	**21 ft BGS**
Parameters	**Units**						
Metals							
Aluminum	mg/kg	**5640**	**6450**	**1420**	**5330**	**1980**	**1240**
Antimony	mg/kg	6.5 UJ	**1.7 J**	6.5 UJ	6.7 UJ	6.5 UJ	6.6 UJ
Arsenic	mg/kg	**5.8**	**10.6**	**3.2**	**6.0**	**3.9**	**2.7**
Barium	mg/kg	**35.6**	**88.3**	**12.7 J**	**68.5**	**37.6**	**15.1 J**
Beryllium	mg/kg	**0.21 J**	**0.34 J**	0.54 U	**0.22 J**	**0.12 J**	**0.051 J**
Cadmium	mg/kg	0.54 U	**0.74**	0.54 U	**0.18 J**	**0.099 J**	**0.057 J**
Calcium	mg/kg	**54000 J**	**28900 J**	**162000 J**	**54800 J**	**88900 J**	**74800 J**
Chromium	mg/kg	**7.9**	**18.8**	**3.2**	**8.2**	**3.8**	**2.4**
Chromium III (trivalent)	mg/kg	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-
Cobalt	mg/kg	**3.7 J**	**7.4**	**1.7 J**	**4.0 J**	**2.3 J**	**1.5 J**
Copper	mg/kg	**12.1**	**325**	**6.0**	**13.8**	**9.4**	**7.6**
Iron	mg/kg	**10100**	**63700**	**4640**	**11700**	**6020**	**4060**
Lead	mg/kg	**15.8 J**	**132 J**	**2.5 J**	**27.2 J**	**16.5 J**	**6.3 J**
Lead - coarse fraction	mg/kg	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-
Magnesium	mg/kg	**28100**	**11000**	**52800**	**27500**	**31900**	**30300**
Manganese	mg/kg	**225 J**	**734 J**	**208 J**	**271 J**	**164 J**	**101 J**
Mercury	mg/kg	**0.047 J**	**0.36**	0.11 U	**0.12**	**0.087 J**	**0.063 J**
Nickel	mg/kg	**10.4**	**17.8**	**4.2 J**	**11.6**	**6.0**	**4.0 J**
Potassium	mg/kg	**542 J**	**783 J**	**346 J**	**939 J**	**437 J**	**250 J**
Selenium	mg/kg	27.0 U	27.1 U	27.0 U	27.7 U	27.1 U	27.7 U
Silver	mg/kg	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Sodium	mg/kg	**101 J**	543 U	**145 J**	**883**	**683**	**291 J**
Thallium	mg/kg	0.15 U	0.17 U	0.11 U	0.17 U	0.11 U	0.11 U
Vanadium	mg/kg	**14.3 J**	**36.2 J**	**5.5 J**	**14.0 J**	**6.4 J**	**4.6 J**
Zinc	mg/kg	**36.2 J**	**298 J**	**17.2 J**	**54.6 J**	**26.4 J**	**16.4 J**
PCBs							
Aroclor-1254 (PCB-1254)	ug/kg	36 U	**20 J**	36 U	37 U	36 U	37 U
Aroclor-1260 (PCB-1260)	ug/kg	36 U	36 U	36 U	37 U	36 U	37 U
Pesticides							
4,4'-DDE	ug/kg	**24 J**	**43 J**	9.2 U	19 U	18 U	9.4 U
4,4'-DDT	ug/kg	92 UJ	92 UJ	9.2 UJ	19 UJ	18 UJ	9.4 UJ
Endrin aldehyde	ug/kg	92 U	92 U	9.2 U	19 U	18 U	9.4 U
gamma-Chlordane	ug/kg	**29 J**	92 U	9.2 U	19 U	18 U	9.4 U
Methoxychlor	ug/kg	180 UJ	180 UJ	18 UJ	37 UJ	36 UJ	18 UJ
Dioxin/Furans							
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-

Table 8

Summary of Detections
Soil/Fill Samples - EU11
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-11**	**TT-11**	**TT-11**	**TT-12**	**TT-12**	**TT-12**
Sample ID:		**S-38443-100208-KMV-041**	**S-38443-100208-KMV-042**	**S-38443-100208-KMV-043**	**S-38443-100208-KMV-038**	**S-38443-100208-KMV-039**	**S-38443-100208-KMV-040**
Sample Date:		**10/2/2008**	**10/2/2008**	**10/2/2008**	**10/2/2008**	**10/2/2008**	**10/2/2008**
Sample Depth:		**5 ft BGS**	**10 ft BGS**	**21 ft BGS**	**5 ft BGS**	**10 ft BGS**	**21 ft BGS**
Parameters	**Units**						
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-
Asbestos							
Chrysotile asbestos	%	-	-	-	-	-	-
General Chemistry							
Cyanide (total)	mg/kg	0.54 U	0.54 U	0.54 U	0.55 U	**0.51 J**	0.55 U
Total solids	%	**92.5**	**92.2**	**92.5**	**90.2**	**92.2**	**90.3**

Notes
J - Estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 9

Summary of Detections
Soil/Fill Samples - EU12
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:							**BH83-13**	**BH83-13**	**BH84-13**	**BH84-13**
Sample ID:							**S-38443-062413-SM-030**	**S-38443-062413-SM-041**	**S-38443-062613-JT-048**	**S-38443-062613-JT-049**
Sample Date:							**6/24/2013**	**6/24/2013**	**6/26/2013**	**6/26/2013**
Sample Depth:							**5-7.5 ft BGS**	**20.2-22.2 ft BGS**	**2-4 ft BGS**	**19-21 ft BGS**
Parameters	**Units**	**Samples**	**Detects**	**Min Detect**	**Max Detect**	**Average (Detects)**				
Volatiles										
1,1-Dichloroethane	ug/kg	19	2	1.3	1.9	1.600	5.3 U	6.4 U	**1.9 J**	5.2 U
1,3-Dichlorobenzene	ug/kg	16	1	2.4	2.4	2.400	5.3 UJ	6.4 UJ	4.9 U	5.2 U
1,4-Dichlorobenzene	ug/kg	17	3	2.6	8.6	5.133	5.3 UJ	6.4 UJ	4.9 U	5.2 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	19	7	3.9	380	60.857	**9.8 J**	**16 J**	**6.1 J**	21 U
Acetone	ug/kg	18	7	24	770	203.714	94 U	81 U	39 U	21 U
Benzene	ug/kg	19	3	0.32	1.6	0.967	**0.32 J**	**1.6 J**	4.9 U	5.2 U
Carbon disulfide	ug/kg	18	3	0.58	2.8	1.527	**2.8 J**	**0.58 J**	4.9 U	5.2 U
Chlorobenzene	ug/kg	19	2	1.4	2.1	1.750	5.3 U	**2.1 J**	**1.4 J**	5.2 U
Chloroform (Trichloromethane)	ug/kg	19	1	0.34	0.34	0.340	**0.34 J**	6.4 U	4.9 U	5.2 U
cis-1,2-Dichloroethene	ug/kg	19	3	0.79	28	9.997	5.3 U	6.4 U	4.9 U	5.2 U
Cyclohexane	ug/kg	19	4	0.36	1400	350.458	11 U	**1.1 J**	9.8 U	10 U
Ethylbenzene	ug/kg	19	4	0.37	65	16.930	**1.4 J**	6.4 U	**0.95 J**	5.2 U
Isopropyl benzene	ug/kg	19	2	1.3	150	75.650	5.3 U	6.4 U	4.9 U	5.2 U
Methyl cyclohexane	ug/kg	19	5	0.42	5900	1250.790	11 U	**2.7 J**	9.8 U	10 U
Methylene chloride	ug/kg	19	4	1.9	980	254.475	16 U	21 U	7.7 U	7.9 U
Tetrachloroethene	ug/kg	19	3	4.7	58	22.500	5.3 U	6.4 U	4.9 U	5.2 U
Toluene	ug/kg	19	8	0.36	630	119.399	5.3 U	6.4 U	4.9 U	**0.51 J**
Trichloroethene	ug/kg	19	6	0.47	81	17.095	5.3 U	6.4 U	4.9 U	**0.47 J**
Vinyl chloride	ug/kg	19	1	1.7	1.7	1.700	5.3 U	6.4 U	**1.7 J**	5.2 U
Xylenes (total)	ug/kg	19	5	1.2	2300	563.320	11 U	**4.0 J**	**1.2 J**	10 U
Semi-Volatiles										
2-Methylnaphthalene	ug/kg	15	13	15	3200	429.769	-	-	-	-
3&4-Methylphenol	ug/kg	12	2	91	420	255.500	-	-	-	-
Acenaphthene	ug/kg	15	6	11	190	67.667	-	-	-	-
Acenaphthylene	ug/kg	15	6	4.3	110	28.583	-	-	-	-
Acetophenone	ug/kg	15	3	22	210	96.000	-	-	-	-
Anthracene	ug/kg	15	9	9.3	240	75.700	-	-	-	-
Benzaldehyde	ug/kg	15	4	35	330	120.500	-	-	-	-
Benzo(a)anthracene	ug/kg	15	13	5.3	860	199.177	-	-	-	-
Benzo(a)pyrene	ug/kg	15	10	16	770	220.400	-	-	-	-
Benzo(b)fluoranthene	ug/kg	15	12	9.4	1100	287.617	-	-	-	-
Benzo(g,h,i)perylene	ug/kg	15	11	9.4	510	126.491	-	-	-	-
Benzo(k)fluoranthene	ug/kg	15	9	8.5	480	122.667	-	-	-	-
Biphenyl (1,1-Biphenyl)	ug/kg	15	5	34	250	116.600	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	15	7	54	620	226.286	-	-	-	-
Carbazole	ug/kg	15	4	32	140	65.750	-	-	-	-
Chrysene	ug/kg	15	13	10	870	233.000	-	-	-	-
Dibenz(a,h)anthracene	ug/kg	15	7	13	130	50.143	-	-	-	-
Dibenzofuran	ug/kg	15	7	26	990	227.000	-	-	-	-
Diethyl phthalate	ug/kg	15	1	42	42	42.000	-	-	-	-
Di-n-butylphthalate (DBP)	ug/kg	15	3	26	140	72.000	-	-	-	-
Fluoranthene	ug/kg	15	13	5.6	1800	319.354	-	-	-	-
Fluorene	ug/kg	15	7	14	330	89.143	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/kg	15	10	11	470	103.600	-	-	-	-

Table 9

Summary of Detections
Soil/Fill Samples - EU12
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:							**BH83-13**	**BH83-13**	**BH84-13**	**BH84-13**
Sample ID:							**S-38443-062413-SM-030**	**S-38443-062413-SM-041**	**S-38443-062613-JT-048**	**S-38443-062613-JT-049**
Sample Date:							**6/24/2013**	**6/24/2013**	**6/26/2013**	**6/26/2013**
Sample Depth:							**5-7.5 ft BGS**	**20.2-22.2 ft BGS**	**2-4 ft BGS**	**19-21 ft BGS**
Parameters	**Units**	**Samples**	**Detects**	**Min Detect**	**Max Detect**	**Average (Detects)**				
Naphthalene	ug/kg	15	12	6.1	1500	250.592	-	-	-	-
Phenanthrene	ug/kg	15	14	11	2300	386.929	-	-	-	-
Phenol	ug/kg	15	1	87	87	87.000	-	-	-	-
Pyrene	ug/kg	15	13	7	1400	300.846	-	-	-	-
Metals										
Aluminum	mg/kg	15	15	840	10000	4194.667	-	-	-	-
Antimony	mg/kg	15	15	0.12	2.1	0.889	-	-	-	-
Arsenic	mg/kg	15	15	1.7	51.2	16.013	-	-	-	-
Barium	mg/kg	15	15	14	761	228.533	-	-	-	-
Beryllium	mg/kg	15	14	0.11	1.5	0.717	-	-	-	-
Cadmium	mg/kg	15	10	0.09	2.1	0.551	-	-	-	-
Calcium	mg/kg	15	15	740	130000	33648.000	-	-	-	-
Chromium	mg/kg	15	15	7	83	18.753	-	-	-	-
Chromium III (trivalent)	mg/kg	12	12	7	83	20.142	-	-	-	-
Cobalt	mg/kg	15	15	0.76	7.1	4.717	-	-	-	-
Copper	mg/kg	15	15	11	220	45.673	-	-	-	-
Iron	mg/kg	15	15	4400	38000	11030.667	-	-	-	-
Lead	mg/kg	15	15	8	180	45.413	-	-	-	-
Lead - coarse fraction	mg/kg	1	1	80	80	80.000	-	-	-	-
Lead - fine fraction	mg/kg	1	1	200	200	200.000	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	1	1	92	92	92.000	-	-	-	-
Magnesium	mg/kg	15	15	325	55000	16612.333	-	-	-	-
Manganese	mg/kg	15	15	13.5	2600	387.587	-	-	-	-
Mercury	mg/kg	15	9	0.018	0.41	0.110	-	-	-	-
Nickel	mg/kg	15	15	8.2	39	15.533	-	-	-	-
Potassium	mg/kg	15	14	86	1300	604.429	-	-	-	-
Selenium	mg/kg	15	14	0.14	7.7	2.152	-	-	-	-
Silver	mg/kg	15	12	0.021	0.21	0.075	-	-	-	-
Sodium	mg/kg	15	9	85	700	226.111	-	-	-	-
Thallium	mg/kg	15	10	0.14	1.1	0.366	-	-	-	-
Vanadium	mg/kg	15	15	1.6	49	21.387	-	-	-	-
Zinc	mg/kg	15	15	12.1	440	76.540	-	-	-	-
PCBs										
Aroclor-1254 (PCB-1254)	ug/kg	15	2	150	210	180.000	-	-	-	-
Pesticides										
4,4'-DDD	ug/kg	15	1	5	5	5.000	-	-	-	-
4,4'-DDE	ug/kg	15	3	1.4	27	10.900	-	-	-	-
alpha-BHC	ug/kg	15	1	10	10	10.000	-	-	-	-
beta-BHC	ug/kg	15	2	8.1	20	14.050	-	-	-	-
Endrin ketone	ug/kg	15	1	1.1	1.1	1.100	-	-	-	-
Methoxychlor	ug/kg	15	2	1.5	5.5	3.500	-	-	-	-
Dioxin/Furans										

Table 9

Summary of Detections
Soil/Fill Samples - EU12
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:							**BH83-13**	**BH83-13**	**BH84-13**	**BH84-13**
Sample ID:							**S-38443-062413-SM-030**	**S-38443-062413-SM-041**	**S-38443-062613-JT-048**	**S-38443-062613-JT-049**
Sample Date:							**6/24/2013**	**6/24/2013**	**6/26/2013**	**6/26/2013**
Sample Depth:							**5-7.5 ft BGS**	**20.2-22.2 ft BGS**	**2-4 ft BGS**	**19-21 ft BGS**
Parameters	**Units**	**Samples**	**Detects**	**Min Detect**	**Max Detect**	**Average (Detects)**				
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	1	1	4	4	4.000	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	1	1	79	79	79.000	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	1	1	1.7	1.7	1.700	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	1	1	4.8	4.8	4.800	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	1	1	0.61	0.61	0.610	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	1	1	0.37	0.37	0.370	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	1	1	0.69	0.69	0.690	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	1	1	5.8	5.8	5.800	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	1	1	9.8	9.8	9.800	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	1	1	1.8	1.8	1.800	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	1	1	4	4	4.000	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	1	1	3.5	3.5	3.500	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	1	1	0.94	0.94	0.940	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	1	1	7.3	7.3	7.300	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	1	1	0.45	0.45	0.450	-	-	-	-
Asbestos										
Chrysotile asbestos	%	2	2	1	1	1.000	-	-	-	-
General Chemistry										
Cyanide (total)	mg/kg	15	5	0.074	1.5	0.685	-	-	-	-
Total solids	%	3	3	64.4	82.2	70.900	-	-	-	-

Notes
< - Less than reported value.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 9

Summary of Detections
Soil/Fill Samples - EU12
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH111-18**	**BH112-17**	**BH113-18**	**SS-62**	**SS-63**	**SS-64**	**SS-65**
Sample ID:		**S-38443-011118-JC-042**	**S-38443-121917-JC-014**	**S-38443-010318-JC-026**	**SS-38443-103018-JC-062**	**SS-38443-103018-JC-063**	**SS-38443-103018-JC-064**	**SS-38443-103018-JC-065**
Sample Date:		**1/11/2018**	**12/19/2017**	**1/3/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**
Sample Depth:		**7.5-9.5 ft BGS**	**13-15 ft BGS**	**9-11 ft BGS**	**0.17-2.17 ft BGS**	**0.17-2.17 ft BGS**	**0-2 ft BGS**	**0.25-2.25 ft BGS**
Parameters	**Units**							
Volatiles								
1,1-Dichloroethane	ug/kg	0.34 U	0.36 U	0.30 U	**1.3 J**	0.71 U	11 UJ	21 UJ
1,3-Dichlorobenzene	ug/kg	0.30 U	0.31 UJ	0.26 U	R	0.84 U	26 UJ	49 U
1,4-Dichlorobenzene	ug/kg	0.36 U	0.38 UJ	0.31 U	R	0.91 U	21 UJ	40 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	1.3 U	12 U	1.1 U	6.5 U	**5.6 J**	200 UJ	**380 J**
Acetone	ug/kg	3.2 U	**55 J**	2.8 U	38 U	**86**	**420 J**	**770 J**
Benzene	ug/kg	0.33 U	**0.98 J**	0.29 U	1.3 U	0.72 U	10 UJ	19 UJ
Carbon disulfide	ug/kg	0.22 U	**1.2 J**	0.19 U	2.1 U	1.2 U	R	250 UJ
Chlorobenzene	ug/kg	0.34 U	0.36 U	0.30 U	1.7 U	0.94 U	44 UJ	82 U
Chloroform (Trichloromethane)	ug/kg	0.24 U	0.25 U	0.21 U	1.4 U	0.81 U	11 UJ	21 U
cis-1,2-Dichloroethene	ug/kg	0.29 U	**0.79 J**	0.25 U	**1.2 J**	0.67 U	**28 J**	21 UJ
Cyclohexane	ug/kg	**0.36 J**	**0.37 J**	0.19 U	2.5 U	1.4 U	200 UJ	**1400 J**
Ethylbenzene	ug/kg	0.28 U	**0.37 J**	0.24 U	1.9 U	1.1 U	**65 J**	190 U
Isopropyl benzene	ug/kg	0.21 U	**1.3 J**	0.18 U	1.5 U	0.86 U	48 UJ	**150 J**
Methyl cyclohexane	ug/kg	**0.42 J**	**0.83 J**	0.21 U	2.2 U	1.3 U	**350 J**	**5900 J**
Methylene chloride	ug/kg	16 U	0.26 U	0.63 U	22 U	12 U	**980 J**	900 U
Tetrachloroethene	ug/kg	0.38 U	0.40 U	0.33 U	1.3 U	0.75 U	**58 J**	35 U
Toluene	ug/kg	**0.36 J**	**0.52 J**	0.31 U	1.4 U	0.80 U	**320 J**	**630 J**
Trichloroethene	ug/kg	**12**	0.44 U	0.37 U	1.2 U	0.65 U	**81 J**	30 UJ
Vinyl chloride	ug/kg	0.29 U	0.30 U	0.25 U	1.5 U	0.86 U	13 UJ	23 UJ
Xylenes (total)	ug/kg	0.41 U	**1.4 J**	0.36 U	2.9 U	1.6 U	**510 J**	**2300 J**
Semi-Volatiles								
2-Methylnaphthalene	ug/kg	**39**	**270**	0.57 U	**18**	**15 J**	**430**	**770 J**
3&4-Methylphenol	ug/kg	49 U	**91 J**	23 U	33 U	35 U	31 U	34 U
Acenaphthene	ug/kg	**38**	**50**	0.87 U	**11 J**	3.4 U	**22**	3.3 UJ
Acenaphthylene	ug/kg	**34**	1.1 U	**4.3 J**	**110**	4.8 U	4.3 U	4.7 U
Acetophenone	ug/kg	23 U	**56 J**	11 U	13 U	13 U	12 U	13 U
Anthracene	ug/kg	**240**	**40**	0.90 U	**54**	2.9 U	**16**	**41 J**
Benzaldehyde	ug/kg	30 U	**47 J**	14 U	27 U	28 U	**35 J**	**70 J**
Benzo(a)anthracene	ug/kg	**860**	**15 J**	**14**	**610**	**5.3 J**	**63**	**140 J**
Benzo(a)pyrene	ug/kg	**770**	2.0 U	**16**	**750**	11 U	**37**	**74 J**
Benzo(b)fluoranthene	ug/kg	**1100**	1.8 U	**23**	**1100**	**9.4 J**	**69**	**140 J**
Benzo(g,h,i)perylene	ug/kg	**250**	1.1 U	**13**	**510**	**9.4 J**	**59**	**78 J**
Benzo(k)fluoranthene	ug/kg	**480**	2.1 U	**8.5**	**390**	8.3 U	**9.5 J**	**28 J**
Biphenyl (1,1-Biphenyl)	ug/kg	8.7 U	**86 J**	4.0 U	20 U	20 U	**34 J**	**43 J**
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	**620**	**140 J**	51 U	59 U	**83 J**	**67 J**	60 U
Carbazole	ug/kg	67 U	83 U	31 U	**51 J**	23 U	**32 J**	**40 J**
Chrysene	ug/kg	**870**	**30**	**16**	**730**	**10 J**	**120**	**170 J**
Dibenz(a,h)anthracene	ug/kg	**60**	2.0 U	0.76 U	**130**	8.3 U	**17**	**24 J**
Dibenzofuran	ug/kg	**26 J**	**49 J**	0.76 U	15 U	16 U	**110**	**230 J**
Diethyl phthalate	ug/kg	**42 J**	49 U	56 U	36 U	37 U	33 U	36 U
Di-n-butylphthalate (DBP)	ug/kg	37 U	**50 J**	**26 J**	25 U	26 U	24 U	26 U
Fluoranthene	ug/kg	**1800**	**55**	**26**	**960**	**5.6 J**	**72**	**130 J**
Fluorene	ug/kg	**51**	**100**	0.61 U	**14 J**	3.3 U	**32**	**20 J**
Indeno(1,2,3-cd)pyrene	ug/kg	**260**	1.1 U	**11**	**470**	8.8 U	**18**	**29 J**

Table 9

Summary of Detections
Soil/Fill Samples - EU12
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH111-18**	**BH112-17**	**BH113-18**	**SS-62**	**SS-63**	**SS-64**	**SS-65**
Sample ID:		**S-38443-011118-JC-042**	**S-38443-121917-JC-014**	**S-38443-010318-JC-026**	**SS-38443-103018-JC-062**	**SS-38443-103018-JC-063**	**SS-38443-103018-JC-064**	**SS-38443-103018-JC-065**
Sample Date:		**1/11/2018**	**12/19/2017**	**1/3/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**
Sample Depth:		**7.5-9.5 ft BGS**	**13-15 ft BGS**	**9-11 ft BGS**	**0.17-2.17 ft BGS**	**0.17-2.17 ft BGS**	**0-2 ft BGS**	**0.25-2.25 ft BGS**
Parameters	**Units**							
Naphthalene	ug/kg	**39**	**240**	0.94 U	**17**	**6.1 J**	**230**	**360 J**
Phenanthrene	ug/kg	**740**	**200**	**14**	**200**	**28**	**390**	**590 J**
Phenol	ug/kg	18 U	23 U	8.4 U	9.2 U	9.6 U	8.6 U	9.3 U
Pyrene	ug/kg	**1400**	**92**	**22**	**1000**	**7.0 J**	**100**	**150 J**
Metals								
Aluminum	mg/kg	**10000 J**	**2000**	**9000 J**	**4600**	**2000**	**840**	**3200**
Antimony	mg/kg	**2.1 J**	**1.2**	**0.48 J**	**0.27 J**	**0.19 J**	**0.24 J**	**0.27 J**
Arsenic	mg/kg	**13**	**4.4**	**7.5**	**6.2**	**2.4**	**5.5**	**9.9 J**
Barium	mg/kg	**220 J**	**26**	**68**	**99**	**130**	**100**	**150 J**
Beryllium	mg/kg	**0.90**	**0.11 J**	**0.51**	**0.59**	**0.23**	**0.36**	**0.47 J**
Cadmium	mg/kg	**2.1**	**1.5**	**0.20**	**0.23**	**0.24**	**0.28**	0.090 U
Calcium	mg/kg	**36000**	**2600**	**33000**	**110000 J**	**25000**	**1400 J**	**1700**
Chromium	mg/kg	**22**	**83**	**16**	**9.7**	**39**	**7.8**	**7.0**
Chromium III (trivalent)	mg/kg	**22**	**83**	**16**	**9.7**	**39**	**7.8**	**7.0**
Cobalt	mg/kg	**7.1**	**3.2**	**6.8**	**4.9**	**2.8**	**6.4**	**3.5**
Copper	mg/kg	**220**	**52**	**12 J**	**18**	**28**	**21**	**21**
Iron	mg/kg	**23000**	**38000**	**17000**	**9300**	**4800**	**5500**	**6600**
Lead	mg/kg	**180**	**34**	**12**	**110**	**35 J**	**31**	**8.1 J**
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-
Magnesium	mg/kg	**18000**	**910**	**17000**	**46000 J**	**9100**	**720 J**	**32000 J**
Manganese	mg/kg	**750**	**2600**	**500**	**230**	**110**	**15**	**240 J**
Mercury	mg/kg	**0.12 J**	0.020 U	0.018 U	**0.41**	0.023 U	**0.021 J**	0.022 U
Nickel	mg/kg	**29**	**39**	**13**	**13**	**8.6**	**22**	**8.8**
Potassium	mg/kg	**1300**	**86 J**	**700**	**870**	**550**	**170 J**	**580**
Selenium	mg/kg	**1.1**	**0.14 J**	**0.83 J**	**0.45 J**	**0.26 J**	**0.71 J**	**0.47 J**
Silver	mg/kg	**0.21**	**0.13 J**	**0.030 J**	**0.11 J**	**0.025 J**	**0.029 J**	**0.021 J**
Sodium	mg/kg	**700**	61 U	**120 J**	**140 J**	**85 J**	53 U	**130 J**
Thallium	mg/kg	**0.25**	0.057 U	**0.16 J**	**0.17 J**	0.052 U	0.086 U	**0.27**
Vanadium	mg/kg	**27**	**5.0**	**26**	**14**	**12**	**12**	**13 J**
Zinc	mg/kg	**440**	**42**	**40 J**	**80 J**	**28 J**	**150 J**	**39 J**
PCBs								
Aroclor-1254 (PCB-1254)	ug/kg	**150**	28 U	26 U	**210**	27 U	25 U	26 U
Pesticides								
4,4'-DDD	ug/kg	4.1 U	4.1 U	**5.0 J**	1.7 U	1.7 U	1.6 U	17 U
4,4'-DDE	ug/kg	1.5 U	1.5 U	1.3 U	1.7 U	1.8 U	1.6 U	17 U
alpha-BHC	ug/kg	2.0 U	2.0 U	1.7 U	1.0 U	1.1 U	0.98 U	10 U
beta-BHC	ug/kg	4.9 U	4.8 U	4.3 U	2.0 U	2.0 U	1.9 U	**20 NJ**
Endrin ketone	ug/kg	1.4 U	1.4 U	1.2 U	1.0 U	1.0 U	0.95 U	10 U
Methoxychlor	ug/kg	**1.5 NJ**	1.5 U	**5.5 J**	7.5 U	7.7 U	7.0 U	76 U
Dioxin/Furans								

Table 9

Summary of Detections
Soil/Fill Samples - EU12
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH111-18**	**BH112-17**	**BH113-18**	**SS-62**	**SS-63**	**SS-64**	**SS-65**
Sample ID:		**S-38443-011118-JC-042**	**S-38443-121917-JC-014**	**S-38443-010318-JC-026**	**SS-38443-103018-JC-062**	**SS-38443-103018-JC-063**	**SS-38443-103018-JC-064**	**SS-38443-103018-JC-065**
Sample Date:		**1/11/2018**	**12/19/2017**	**1/3/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**
Sample Depth:		**7.5-9.5 ft BGS**	**13-15 ft BGS**	**9-11 ft BGS**	**0.17-2.17 ft BGS**	**0.17-2.17 ft BGS**	**0-2 ft BGS**	**0.25-2.25 ft BGS**
Parameters	**Units**							
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	**4.0 J**	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	**79 J**	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	**1.7 J**	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	**4.8 J**	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	**0.61 J**	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	**0.37 J**	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	**0.69 J**	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	**5.8 J**	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	**9.8 J**	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	**1.8 J**	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	**4.0 J**	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	**3.5 J**	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	**0.94 J**	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	**7.3 J**	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	**0.45 J**	-	-	-	-	-
Asbestos								
Chrysotile asbestos	%	-	1 <	1 <	-	-	-	-
General Chemistry								
Cyanide (total)	mg/kg	**1.5**	**0.14 J**	**0.074 J**	0.21 U	0.25 U	**1.4**	0.25 U
Total solids	%	-	-	-	-	-	-	-

Notes
< - Less than reported value.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 9

Summary of Detections
Soil/Fill Samples - EU12
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-65**	**SS-66**	**SS-67**	**SS-68**	**SS-69**	**SS-89**	**SS-167-AS**
Sample ID:		**SS-38443-103018-JC-118**	**SS-38443-103018-JC-066**	**SS-38443-103018-JC-067**	**SS-38443-103018-JC-068**	**SS-38443-103018-JC-069**	**SS-38443-103018-JC-089**	**SS-38443-103018-JC-167**
Sample Date:		**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**
Sample Depth:		**0.25-2.25 ft BGS**	**0.17-2.17 ft BGS**	**0.17-2.17 ft BGS**	**0.17-2.17 ft BGS**	**0.33-2.33 ft BGS**	**0-2 ft BGS**	**0-0.5 ft BGS**
		Duplicate						
Parameters	**Units**							
Volatiles								
1,1-Dichloroethane	ug/kg	0.95 U	0.60 U	0.79 U	0.57 U	0.66 U	-	-
1,3-Dichlorobenzene	ug/kg	R	0.71 U	0.93 U	0.67 U	0.77 U	-	-
1,4-Dichlorobenzene	ug/kg	R	0.76 U	1.0 U	0.73 U	0.84 U	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	4.9 UJ	3.1 U	**4.6 J**	2.9 U	**3.9 J**	-	-
Acetone	ug/kg	29 UJ	18 U	24 U	17 U	**24**	-	-
Benzene	ug/kg	0.96 U	0.60 U	0.79 U	0.58 U	0.66 U	-	-
Carbon disulfide	ug/kg	1.6 U	1.0 U	1.3 U	0.96 U	1.1 U	-	-
Chlorobenzene	ug/kg	1.3 UJ	0.79 U	1.0 U	0.76 U	0.87 U	-	-
Chloroform (Trichloromethane)	ug/kg	1.1 U	0.68 U	0.89 U	0.65 U	0.75 U	-	-
cis-1,2-Dichloroethene	ug/kg	1.5 U	0.56 U	0.74 U	0.54 U	0.62 U	-	-
Cyclohexane	ug/kg	1.9 UJ	1.2 U	1.6 U	1.1 U	1.3 U	-	-
Ethylbenzene	ug/kg	1.4 UJ	0.90 U	1.2 U	0.86 U	0.99 U	-	-
Isopropyl benzene	ug/kg	1.1 UJ	0.72 U	0.94 U	0.69 U	0.79 U	-	-
Methyl cyclohexane	ug/kg	1.7 UJ	1.1 U	1.4 U	1.0 U	1.2 U	-	-
Methylene chloride	ug/kg	17 U	10 U	14 U	9.9 U	11 U	-	-
Tetrachloroethene	ug/kg	1.0 UJ	0.63 U	0.83 U	0.60 U	0.69 U	-	-
Toluene	ug/kg	1.1 UJ	0.67 U	0.88 U	0.64 U	0.73 U	-	-
Trichloroethene	ug/kg	**2.7 J**	**3.7 J**	**2.7 J**	0.52 U	0.60 U	-	-
Vinyl chloride	ug/kg	1.2 U	0.72 U	0.95 U	0.69 U	0.79 U	-	-
Xylenes (total)	ug/kg	2.2 UJ	1.4 U	1.8 U	1.3 U	1.5 U	-	-
Semi-Volatiles								
2-Methylnaphthalene	ug/kg	**3200 J**	**16**	**24**	**160**	**590**	-	-
3&4-Methylphenol	ug/kg	85 U	32 U	34 U	32 U	**420 J**	-	-
Acenaphthene	ug/kg	**95 J**	3.1 U	3.4 U	3.2 U	**190**	-	-
Acenaphthylene	ug/kg	12 U	**6.2 J**	**12 J**	**5.0 J**	23 U	-	-
Acetophenone	ug/kg	32 U	12 U	13 U	**22 J**	**210 J**	-	-
Anthracene	ug/kg	**200 J**	**12 J**	**9.3 J**	2.7 U	**69 J**	-	-
Benzaldehyde	ug/kg	**330 J**	25 U	27 U	26 U	130 U	-	-
Benzo(a)anthracene	ug/kg	**610 J**	**99**	**62**	**32**	**46 J**	-	-
Benzo(a)pyrene	ug/kg	**330 J**	**99**	**78**	**27**	53 U	-	-
Benzo(b)fluoranthene	ug/kg	**640 J**	**150**	**110**	**36**	**40 J**	-	-
Benzo(g,h,i)perylene	ug/kg	**320 J**	**56**	**56**	**26**	40 U	-	-
Benzo(k)fluoranthene	ug/kg	**84 J**	**52**	**36**	7.7 U	39 U	-	-
Biphenyl (1,1-Biphenyl)	ug/kg	**170 J**	19 U	20 U	19 U	**250 J**	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	150 U	**170**	60 U	57 U	**450**	-	-
Carbazole	ug/kg	**140 J**	21 U	22 U	21 U	110 U	-	-
Chrysene	ug/kg	**730 J**	**120**	**80**	**64**	**51 J**	-	-
Dibenz(a,h)anthracene	ug/kg	**88 J**	**19**	**13 J**	7.7 U	39 U	-	-
Dibenzofuran	ug/kg	**990 J**	14 U	15 U	**54 J**	**130 J**	-	-
Diethyl phthalate	ug/kg	90 U	34 U	36 U	34 U	180 U	-	-
Di-n-butylphthalate (DBP)	ug/kg	64 U	24 U	26 U	24 U	**140 J**	-	-
Fluoranthene	ug/kg	**590 J**	**160**	**110**	**43**	**130**	-	-
Fluorene	ug/kg	**77 J**	3.0 U	3.2 U	3.0 U	**330**	-	-
Indeno(1,2,3-cd)pyrene	ug/kg	**120 J**	**49**	**50**	**17**	42 U	-	-

Table 9

Summary of Detections
Soil/Fill Samples - EU12
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-65**	**SS-66**	**SS-67**	**SS-68**	**SS-69**	**SS-89**	**SS-167-AS**
Sample ID:		**SS-38443-103018-JC-118**	**SS-38443-103018-JC-066**	**SS-38443-103018-JC-067**	**SS-38443-103018-JC-068**	**SS-38443-103018-JC-069**	**SS-38443-103018-JC-089**	**SS-38443-103018-JC-167**
Sample Date:		**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**
Sample Depth:		**0.25-2.25 ft BGS**	**0.17-2.17 ft BGS**	**0.17-2.17 ft BGS**	**0.17-2.17 ft BGS**	**0.33-2.33 ft BGS**	**0-2 ft BGS**	**0-0.5 ft BGS**
		Duplicate						
Parameters	**Units**							
Naphthalene	ug/kg	**1500 J**	**12 J**	**16 J**	**99**	**470**	-	-
Phenanthrene	ug/kg	**2300 J**	**46**	**55**	**160**	**630**	-	-
Phenol	ug/kg	23 U	8.7 U	9.4 U	8.9 U	**87 J**	-	-
Pyrene	ug/kg	**660 J**	**150**	**98**	**44**	**130**	-	-
Metals								
Aluminum	mg/kg	**3600**	**3400**	**7900**	**5400**	**1400**	-	-
Antimony	mg/kg	**1.7 J**	**0.35 J**	**0.63 J**	**0.18 J**	**0.12 J**	-	-
Arsenic	mg/kg	**46 J**	**5.0**	**9.4**	**8.6**	**1.7**	-	-
Barium	mg/kg	**560 J**	**58**	**110**	**54**	**14**	-	-
Beryllium	mg/kg	**1.5 J**	**0.19**	**0.97**	**0.43**	0.087 U	-	-
Cadmium	mg/kg	0.091 U	**0.27**	**0.40**	**0.20**	0.098 U	-	-
Calcium	mg/kg	**2400**	**130000**	**58000**	**91000**	**740**	-	-
Chromium	mg/kg	**15**	**9.6**	**17**	**7.2**	**8.4**	-	-
Chromium III (trivalent)	mg/kg	**15**	**9.6**	**17**	**7.2**	**8.4**	-	-
Cobalt	mg/kg	**7.0**	**3.7**	**7.1**	**4.0**	**0.76**	-	-
Copper	mg/kg	**44**	**24**	**79**	**12**	**11**	-	-
Iron	mg/kg	**4400**	**9900**	**12000**	**10000**	**10000**	-	-
Lead	mg/kg	**34 J**	**58 J**	**42 J**	**8.1 J**	**8.0 J**	-	-
Lead - coarse fraction	mg/kg	-	**80**	-	-	-	-	-
Lead - fine fraction	mg/kg	-	**200**	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	**92**	-	-	-	-	-
Magnesium	mg/kg	**330 J**	**55000**	**25000**	**39000**	**380**	-	-
Manganese	mg/kg	**17 J**	**400**	**390**	**410**	**100**	-	-
Mercury	mg/kg	**0.071 J**	**0.018 J**	**0.13**	0.023 U	0.022 U	-	-
Nickel	mg/kg	**16**	**11**	**19**	**10**	**10**	-	-
Potassium	mg/kg	**560**	**630**	**880**	**660**	51 U	-	-
Selenium	mg/kg	**4.8 J**	**0.16 J**	**0.65 J**	**0.26 J**	0.11 U	-	-
Silver	mg/kg	**0.10 J**	**0.049 J**	**0.15 J**	**0.026 J**	**0.024 J**	-	-
Sodium	mg/kg	**110 J**	**150 J**	**480**	**120 J**	47 U	-	-
Thallium	mg/kg	**0.70**	**0.14 J**	**0.27**	**0.15 J**	0.044 U	-	-
Vanadium	mg/kg	**49 J**	**11**	**22**	**13**	**1.6**	-	-
Zinc	mg/kg	**48 J**	**99 J**	**89 J**	**35 J**	**15 J**	-	-
PCBs								
Aroclor-1254 (PCB-1254)	ug/kg	34 U	25 U	27 U	25 U	26 U	-	-
Pesticides								
4,4'-DDD	ug/kg	22 U	1.6 U	1.7 U	1.6 U	17 U	-	-
4,4'-DDE	ug/kg	22 U	1.6 U	1.7 U	1.7 U	17 U	-	-
alpha-BHC	ug/kg	13 U	0.97 U	1.1 U	**10**	10 U	-	-
beta-BHC	ug/kg	25 U	1.8 U	2.0 U	**8.1 NJ**	19 U	-	-
Endrin ketone	ug/kg	13 U	0.95 U	1.0 U	0.98 U	10 U	-	-
Methoxychlor	ug/kg	96 U	7.0 U	7.6 U	7.2 U	74 U	-	-
Dioxin/Furans								

Table 9

Summary of Detections
Soil/Fill Samples - EU12
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-65**	**SS-66**	**SS-67**	**SS-68**	**SS-69**	**SS-89**	**SS-167-AS**
Sample ID:		**SS-38443-103018-JC-118**	**SS-38443-103018-JC-066**	**SS-38443-103018-JC-067**	**SS-38443-103018-JC-068**	**SS-38443-103018-JC-069**	**SS-38443-103018-JC-089**	**SS-38443-103018-JC-167**
Sample Date:		**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**
Sample Depth:		**0.25-2.25 ft BGS**	**0.17-2.17 ft BGS**	**0.17-2.17 ft BGS**	**0.17-2.17 ft BGS**	**0.33-2.33 ft BGS**	**0-2 ft BGS**	**0-0.5 ft BGS**
		Duplicate						
Parameters	**Units**							
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Asbestos								
Chrysotile asbestos	%	-	-	-	-	-	-	-
General Chemistry								
Cyanide (total)	mg/kg	**0.31 J**	0.21 U	0.25 U	0.21 U	0.22 U	-	-
Total solids	%	-	-	-	-	-	-	-

Notes
< - Less than reported value.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 9

Summary of Detections
Soil/Fill Samples - EU12
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-10**	**TT-10**	**TT-10**
Sample ID:		**S-38443-100308-KMV-044**	**S-38443-100308-KMV-045**	**S-38443-100308-KMV-046**
Sample Date:		**10/3/2008**	**10/3/2008**	**10/3/2008**
Sample Depth:		**5 ft BGS**	**10 ft BGS**	**15 ft BGS**
Parameters	**Units**			
Volatiles				
1,1-Dichloroethane	ug/kg	12 U	14 UJ	13 UJ
1,3-Dichlorobenzene	ug/kg	12 UJ	**2.4 J**	R
1,4-Dichlorobenzene	ug/kg	**2.6 J**	**8.6 J**	**4.2 J**
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	48 U	57 UJ	53 UJ
Acetone	ug/kg	R	**38 J**	**33 J**
Benzene	ug/kg	12 U	14 UJ	13 UJ
Carbon disulfide	ug/kg	12 U	14 UJ	13 UJ
Chlorobenzene	ug/kg	12 UJ	14 UJ	13 UJ
Chloroform (Trichloromethane)	ug/kg	12 U	14 UJ	13 UJ
cis-1,2-Dichloroethene	ug/kg	12 U	14 UJ	13 UJ
Cyclohexane	ug/kg	24 U	29 UJ	27 UJ
Ethylbenzene	ug/kg	12 UJ	14 UJ	13 UJ
Isopropyl benzene	ug/kg	12 UJ	14 UJ	13 UJ
Methyl cyclohexane	ug/kg	24 U	29 UJ	27 UJ
Methylene chloride	ug/kg	**1.9 J**	**18 J**	**18 J**
Tetrachloroethene	ug/kg	12 UJ	**4.8 J**	**4.7 J**
Toluene	ug/kg	**1.1 J**	**1.7 J**	**1.0 J**
Trichloroethene	ug/kg	12 U	14 UJ	13 UJ
Vinyl chloride	ug/kg	12 U	14 UJ	13 UJ
Xylenes (total)	ug/kg	24 UJ	29 UJ	27 UJ
Semi-Volatiles				
2-Methylnaphthalene	ug/kg	**36**	10 U	**19**
3&4-Methylphenol	ug/kg	-	-	-
Acenaphthene	ug/kg	8.1 U	10 U	10 U
Acenaphthylene	ug/kg	8.1 U	10 U	10 U
Acetophenone	ug/kg	120 U	150 U	160 UJ
Anthracene	ug/kg	8.1 U	10 U	10 U
Benzaldehyde	ug/kg	120 U	150 U	160 U
Benzo(a)anthracene	ug/kg	**33**	10 U	10 U
Benzo(a)pyrene	ug/kg	**23**	10 U	10 U
Benzo(b)fluoranthene	ug/kg	**34**	10 U	10 U
Benzo(g,h,i)perylene	ug/kg	**14**	10 U	10 U
Benzo(k)fluoranthene	ug/kg	**16**	10 U	10 U
Biphenyl (1,1-Biphenyl)	ug/kg	61 U	76 U	78 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	61 U	76 U	**54 J**
Carbazole	ug/kg	61 U	76 U	78 U
Chrysene	ug/kg	**38**	10 U	10 U
Dibenz(a,h)anthracene	ug/kg	8.1 U	10 U	10 U
Dibenzofuran	ug/kg	61 U	76 U	78 U
Diethyl phthalate	ug/kg	61 U	76 U	78 U
Di-n-butylphthalate (DBP)	ug/kg	61 U	76 U	78 U
Fluoranthene	ug/kg	**70**	10 U	10 U
Fluorene	ug/kg	8.1 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	ug/kg	**12**	10 U	10 U

Table 9

Summary of Detections
Soil/Fill Samples - EU12
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-10**	**TT-10**	**TT-10**
Sample ID:		**S-38443-100308-KMV-044**	**S-38443-100308-KMV-045**	**S-38443-100308-KMV-046**
Sample Date:		**10/3/2008**	**10/3/2008**	**10/3/2008**
Sample Depth:		**5 ft BGS**	**10 ft BGS**	**15 ft BGS**
Parameters	**Units**			
Naphthalene	ug/kg	**18**	10 U	10 U
Phenanthrene	ug/kg	**53**	10 U	**11**
Phenol	ug/kg	61 U	76 U	78 U
Pyrene	ug/kg	**58**	10 U	10 U
Metals				
Aluminum	mg/kg	**2120**	**3550**	**3910**
Antimony	mg/kg	**1.5 J**	**2.0 J**	**2.1 J**
Arsenic	mg/kg	**21.6**	**47.8**	**51.2**
Barium	mg/kg	**343**	**735**	**761**
Beryllium	mg/kg	**0.88**	**1.4**	**1.5**
Cadmium	mg/kg	**0.090 J**	0.76 U	0.78 U
Calcium	mg/kg	**4100 J**	**1620 J**	**7160 J**
Chromium	mg/kg	**7.9**	**15.0**	**16.7**
Chromium III (trivalent)	mg/kg	-	-	-
Cobalt	mg/kg	**2.7 J**	**4.9 J**	**5.9 J**
Copper	mg/kg	**39.1**	**48.1**	**55.9**
Iron	mg/kg	**4410**	**4670**	**5880**
Lead	mg/kg	**27.5**	**45.2**	**48.3**
Lead - coarse fraction	mg/kg	-	-	-
Lead - fine fraction	mg/kg	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-
Magnesium	mg/kg	**1700 J**	**325 J**	**3720 J**
Manganese	mg/kg	**18.6**	**13.5**	**19.7**
Mercury	mg/kg	**0.039 J**	**0.087 J**	**0.096 J**
Nickel	mg/kg	**8.2**	**11.8**	**13.6**
Potassium	mg/kg	**339 J**	**547 J**	**590 J**
Selenium	mg/kg	**5.5 J**	**7.7 J**	**7.1 J**
Silver	mg/kg	1.2 U	1.5 U	1.6 U
Sodium	mg/kg	608 U	757 U	776 U
Thallium	mg/kg	**0.45**	0.76 U	**1.1**
Vanadium	mg/kg	**23.4**	**44.6**	**47.2**
Zinc	mg/kg	**15.9**	**12.1**	**15.1**
PCBs				
Aroclor-1254 (PCB-1254)	ug/kg	40 U	50 U	51 U
Pesticides				
4,4'-DDD	ug/kg	41 U	13 U	2.6 U
4,4'-DDE	ug/kg	**27 J**	**4.3 J**	**1.4 J**
alpha-BHC	ug/kg	41 U	13 U	2.6 U
beta-BHC	ug/kg	41 U	13 U	2.6 U
Endrin ketone	ug/kg	41 U	13 U	**1.1 J**
Methoxychlor	ug/kg	80 UJ	25 UJ	5.1 UJ
Dioxin/Furans				

Table 9

Summary of Detections
Soil/Fill Samples - EU12
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-10**	**TT-10**	**TT-10**
Sample ID:		**S-38443-100308-KMV-044**	**S-38443-100308-KMV-045**	**S-38443-100308-KMV-046**
Sample Date:		**10/3/2008**	**10/3/2008**	**10/3/2008**
Sample Depth:		**5 ft BGS**	**10 ft BGS**	**15 ft BGS**
Parameters	**Units**			
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-
Asbestos				
Chrysotile asbestos	%	-	-	-
General Chemistry				
Cyanide (total)	mg/kg	0.61 U	0.76 U	0.78 U
Total solids	%	**82.2**	**66.1**	**64.4**

Notes
< - Less than reported value.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 10

Summary of Detections
Soil/Fill Samples - EU13
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:							**BH66-13**	**BH66-13**	**BH67-13**	**BH67-13**	**BH71-13**
Sample ID:							**S-38443-062613-JC-054**	**S-38443-062613-JC-055**	**S-38443-062013-JC-032**	**S-38443-062013-JC-033**	**S-38443-062013-JT-025**
Sample Date:							**6/26/2013**	**6/26/2013**	**6/20/2013**	**6/20/2013**	**6/20/2013**
Sample Depth:							**10-12 ft BGS**	**22-24 ft BGS**	**7-9 ft BGS**	**21-23 ft BGS**	**21.5-23.5 ft BGS**
Parameters	**Units**	**Samples**	**Detects**	**Min Detect**	**Max Detect**	**Average (Detects)**					
Volatiles											
1,1,1-Trichloroethane	ug/kg	29	2	2.1	54	28.050	11000 U	5.8 U	3600 U	5.0 U	5.5 U
1,1-Dichloroethane	ug/kg	29	2	25	77	51.000	11000 U	5.8 U	3600 U	5.0 U	5.5 U
1,2,4-Trichlorobenzene	ug/kg	27	1	210	210	210.000	11000 U	5.8 U	**210 J**	5.0 U	5.5 U
1,2-Dichlorobenzene	ug/kg	27	1	1.7	1.7	1.700	11000 U	5.8 U	3600 U	5.0 U	5.5 U
1,3-Dichlorobenzene	ug/kg	27	1	170	170	170.000	11000 U	5.8 U	**170 J**	5.0 U	5.5 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	30	7	2.4	510	78.814	46000 U	**2.4 J**	14000 U	20 U	22 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	28	1	0.64	0.64	0.640	46000 U	23 U	14000 U	20 U	22 U
Acetone	ug/kg	29	2	1200	4500	2850.000	46000 U	23 U	**4500 J**	20 U	22 U
Benzene	ug/kg	29	7	0.23	190	33.040	11000 U	5.8 U	3600 U	5.0 U	5.5 U
Carbon disulfide	ug/kg	28	6	0.47	2.4	1.370	11000 U	**1.4 J**	3600 U	5.0 U	5.5 U
Chlorobenzene	ug/kg	29	9	0.37	1000	250.817	**1000 J**	**2.9 J**	**320 J**	**0.49 J**	5.5 U
Chloroform (Trichloromethane)	ug/kg	28	2	0.25	0.4	0.325	11000 U	5.8 U	3600 U	5.0 U	5.5 U
cis-1,2-Dichloroethene	ug/kg	30	10	1.7	890	229.070	11000 U	5.8 U	**890 J**	**2.0 J**	5.5 U
Cyclohexane	ug/kg	29	5	0.5	1400	297.960	23000 U	12 U	7200 U	10 U	11 U
Ethylbenzene	ug/kg	29	10	0.35	59000	12430.587	**56000**	**1.1 J**	**59000**	5.0 U	5.5 U
Isopropyl benzene	ug/kg	29	8	0.34	13000	2460.088	**13000**	5.8 U	**3600**	5.0 U	5.5 U
Methyl acetate	ug/kg	28	2	230	650	440.000	23000 U	12 U	**650 J**	10 U	11 U
Methyl cyclohexane	ug/kg	30	11	0.27	53000	5933.659	**53000**	**0.78 J**	**790 J**	10 U	11 U
Methylene chloride	ug/kg	28	6	7.4	4000	675.183	20000 U	11 U	**4000**	6.3 UJ	5.5 UJ
Tetrachloroethene	ug/kg	28	4	3.1	7200	3408.275	11000 U	5.8 U	3600 U	5.0 U	5.5 U
Toluene	ug/kg	30	14	0.47	1400	207.528	11000 U	**2.0 J**	**1400 J**	**0.86 J**	**0.69 J**
trans-1,2-Dichloroethene	ug/kg	29	3	10	66	40.667	11000 U	5.8 U	3600 U	5.0 U	5.5 U
Trichloroethene	ug/kg	29	20	0.71	13000	1305.956	11000 U	5.8 U	**1800 J**	**1.9 J**	**3.6 J**
Vinyl chloride	ug/kg	29	2	4.9	50	27.450	11000 U	5.8 U	3600 U	5.0 U	5.5 U
Xylenes (total)	ug/kg	29	14	0.7	140000	16756.471	**140000**	**2.9 J**	**73000**	10 U	11 U
Semi-Volatiles											
2,4-Dimethylphenol	ug/kg	15	1	170	170	170.000	-	-	-	-	-
2-Methylnaphthalene	ug/kg	16	15	5	8800	1640.133	-	-	-	-	-
2-Methylphenol	ug/kg	15	1	110	110	110.000	-	-	-	-	-
Acenaphthene	ug/kg	16	6	12	590	333.667	-	-	-	-	-
Acenaphthylene	ug/kg	16	6	4.6	190	61.517	-	-	-	-	-
Acetophenone	ug/kg	16	4	17	340	104.750	-	-	-	-	-
Anthracene	ug/kg	16	7	9.7	1700	299.957	-	-	-	-	-
Benzaldehyde	ug/kg	16	2	24	55	39.500	-	-	-	-	-
Benzo(a)anthracene	ug/kg	16	12	15	5200	714.417	-	-	-	-	-
Benzo(a)pyrene	ug/kg	16	13	15	5200	600.385	-	-	-	-	-
Benzo(b)fluoranthene	ug/kg	16	14	10	8000	1003.357	-	-	-	-	-
Benzo(g,h,i)perylene	ug/kg	16	11	17	3600	531.273	-	-	-	-	-
Benzo(k)fluoranthene	ug/kg	16	11	9.2	3000	412.473	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	ug/kg	16	7	5.4	1600	315.914	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	16	8	35	10000	1522.750	-	-	-	-	-

Table 10

Summary of Detections
Soil/Fill Samples - EU13
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:							**BH66-13**	**BH66-13**	**BH67-13**	**BH67-13**	**BH71-13**
Sample ID:							**S-38443-062613-JC-054**	**S-38443-062613-JC-055**	**S-38443-062013-JC-032**	**S-38443-062013-JC-033**	**S-38443-062013-JT-025**
Sample Date:							**6/26/2013**	**6/26/2013**	**6/20/2013**	**6/20/2013**	**6/20/2013**
Sample Depth:							**10-12 ft BGS**	**22-24 ft BGS**	**7-9 ft BGS**	**21-23 ft BGS**	**21.5-23.5 ft BGS**
Parameters	**Units**	**Samples**	**Detects**	**Min Detect**	**Max Detect**	**Average (Detects)**					
Carbazole	ug/kg	16	4	21	1100	331.250	-	-	-	-	-
Chrysene	ug/kg	16	13	12	5700	825.769	-	-	-	-	-
Dibenz(a,h)anthracene	ug/kg	16	6	15	920	240.333	-	-	-	-	-
Dibenzofuran	ug/kg	16	10	18	1100	226.200	-	-	-	-	-
Diethyl phthalate	ug/kg	16	2	19	20	19.500	-	-	-	-	-
Di-n-butylphthalate (DBP)	ug/kg	16	3	37	3600	1315.667	-	-	-	-	-
Fluoranthene	ug/kg	16	15	15	11000	1121.733	-	-	-	-	-
Fluorene	ug/kg	16	9	6.1	670	283.567	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/kg	16	10	12	3100	484.100	-	-	-	-	-
Naphthalene	ug/kg	16	13	13	11000	1542.538	-	-	-	-	-
Phenanthrene	ug/kg	16	15	17	7800	1294.600	-	-	-	-	-
Phenol	ug/kg	15	1	6600	6600	6600.000	-	-	-	-	-
Pyrene	ug/kg	16	15	15	8900	988.733	-	-	-	-	-
Metals											
Aluminum	mg/kg	16	16	1700	14000	6231.250	-	-	-	-	-
Antimony	mg/kg	16	15	0.23	1400	97.985	-	-	-	-	-
Arsenic	mg/kg	16	16	3.6	70	23.238	-	-	-	-	-
Barium	mg/kg	16	16	44	1800	453.563	-	-	-	-	-
Beryllium	mg/kg	16	16	0.15	6	1.674	-	-	-	-	-
Cadmium	mg/kg	16	15	0.1	30	3.903	-	-	-	-	-
Calcium	mg/kg	16	16	1200	120000	34168.750	-	-	-	-	-
Chromium	mg/kg	17	17	3.5	370	47.588	-	-	-	-	-
Chromium III (trivalent)	mg/kg	15	15	8.5	370	52.300	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	15	2	0.84	1.4	1.120	-	-	-	-	-
Cobalt	mg/kg	16	16	2.2	24	8.625	-	-	-	-	-
Copper	mg/kg	16	16	12	3300	586.188	-	-	-	-	-
Iron	mg/kg	16	16	4800	180000	31225.000	-	-	-	-	-
Lead	mg/kg	16	16	2.9	26000	2123.619	-	-	-	-	-
Lead - coarse fraction	mg/kg	2	2	980	6300	3640.000	-	-	-	-	-
Lead - fine fraction	mg/kg	2	2	1500	5300	3400.000	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	2	2	1100	6300	3700.000	-	-	-	-	-
Magnesium	mg/kg	16	16	290	38000	11673.125	-	-	-	-	-
Manganese	mg/kg	16	16	19	2300	498.063	-	-	-	-	-
Mercury	mg/kg	16	15	0.031	3.2	0.385	-	-	-	-	-
Nickel	mg/kg	16	16	6	310	54.913	-	-	-	-	-
Potassium	mg/kg	16	14	320	1400	762.143	-	-	-	-	-
Selenium	mg/kg	16	16	0.16	4	1.512	-	-	-	-	-
Silver	mg/kg	16	16	0.018	28	3.171	-	-	-	-	-
Sodium	mg/kg	16	14	80	1500	422.143	-	-	-	-	-
Thallium	mg/kg	16	15	0.11	2	0.511	-	-	-	-	-
Vanadium	mg/kg	16	16	5	130	31.694	-	-	-	-	-
Zinc	mg/kg	16	16	14	3400	697.375	-	-	-	-	-

Table 10

Summary of Detections
Soil/Fill Samples - EU13
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:							**BH66-13**	**BH66-13**	**BH67-13**	**BH67-13**	**BH71-13**
Sample ID:							**S-38443-062613-JC-054**	**S-38443-062613-JC-055**	**S-38443-062013-JC-032**	**S-38443-062013-JC-033**	**S-38443-062013-JT-025**
Sample Date:							**6/26/2013**	**6/26/2013**	**6/20/2013**	**6/20/2013**	**6/20/2013**
Sample Depth:							**10-12 ft BGS**	**22-24 ft BGS**	**7-9 ft BGS**	**21-23 ft BGS**	**21.5-23.5 ft BGS**
Parameters	**Units**	**Samples**	**Detects**	**Min Detect**	**Max Detect**	**Average (Detects)**					
PCBs											
Aroclor-1242 (PCB-1242)	ug/kg	21	2	44	380	212.000	**380**	40 U	2000 U	**44**	-
Aroclor-1254 (PCB-1254)	ug/kg	21	13	49	140000	13095.154	**300 NJ**	40 UJ	**16000**	**290**	-
Aroclor-1260 (PCB-1260)	ug/kg	21	2	54	110	82.000	75 UJ	40 UJ	2000 U	39 U	-
Pesticides											
4,4'-DDD	ug/kg	16	3	34	43	37.667	-	-	-	-	-
4,4'-DDE	ug/kg	16	1	280	280	280.000	-	-	-	-	-
4,4'-DDT	ug/kg	16	4	3.5	760	209.375	-	-	-	-	-
Endrin aldehyde	ug/kg	16	1	280	280	280.000	-	-	-	-	-
Endrin ketone	ug/kg	16	1	17	17	17.000	-	-	-	-	-
Heptachlor epoxide	ug/kg	16	1	75	75	75.000	-	-	-	-	-
Methoxychlor	ug/kg	16	1	7.1	7.1	7.100	-	-	-	-	-
Dioxin/Furans											
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	1	1	13	13	13.000	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	1	1	160	160	160.000	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	1	1	12	12	12.000	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	1	1	23	23	23.000	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	1	1	0.85	0.85	0.850	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	1	1	4.2	4.2	4.200	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	1	1	0.43	0.43	0.430	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	1	1	1.7	1.7	1.700	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	1	1	3	3	3.000	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	1	1	2.2	2.2	2.200	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	1	1	1.1	1.1	1.100	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	1	1	0.52	0.52	0.520	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	1	1	1.5	1.5	1.500	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	1	1	2.5	2.5	2.500	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	1	1	3.8	3.8	3.800	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	1	1	0.21	0.21	0.210	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	1	1	27	27	27.000	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	1	1	46	46	46.000	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	1	1	28	28	28.000	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	1	1	22	22	22.000	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	1	1	33	33	33.000	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	1	1	110	110	110.000	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	1	1	37	37	37.000	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	1	1	3.4	3.4	3.400	-	-	-	-	-
Asbestos											
Chrysotile asbestos	%	1	1	0.25	0.25	0.250	-	-	-	-	-

Table 10

Summary of Detections
Soil/Fill Samples - EU13
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:							**BH66-13**	**BH66-13**	**BH67-13**	**BH67-13**	**BH71-13**
Sample ID:							**S-38443-062613-JC-054**	**S-38443-062613-JC-055**	**S-38443-062013-JC-032**	**S-38443-062013-JC-033**	**S-38443-062013-JT-025**
Sample Date:							**6/26/2013**	**6/26/2013**	**6/20/2013**	**6/20/2013**	**6/20/2013**
Sample Depth:							**10-12 ft BGS**	**22-24 ft BGS**	**7-9 ft BGS**	**21-23 ft BGS**	**21.5-23.5 ft BGS**
Parameters	**Units**	**Samples**	**Detects**	**Min Detect**	**Max Detect**	**Average (Detects)**					
General Chemistry											
Cyanide (total)	mg/kg	16	9	0.051	4.1	1.416	-	-	-	-	-

Notes
< - Less than reported value.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 10

Summary of Detections
Soil/Fill Samples - EU13
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH72-13**	**BH73-13**	**BH74-13**	**BH74-13**	**BH78-13**	**BH78-13**	**BH80-13**	**BH81-13**
Sample ID:		**S-38443-062013-JT-026**	**S-38443-062013-JT-024**	**S-38443-062013-JT-022**	**S-38443-062013-JT-023**	**S-38443-062513-JT-043**	**S-38443-062513-JT-044**	**S-38443-062413-SM-042**	**S-38443-062613-JC-070**
Sample Date:		**6/20/2013**	**6/20/2013**	**6/20/2013**	**6/20/2013**	**6/25/2013**	**6/25/2013**	**6/24/2013**	**6/26/2013**
Sample Depth:		**18.75-20.75 ft BGS**	**18.5-20.5 ft BGS**	**0-2 ft BGS**	**19-21 ft BGS**	**20-22 ft BGS**	**20-22 ft BGS Duplicate**	**22.5-24.5 ft BGS**	**15-17 ft BGS**
Parameters	**Units**								
Volatiles									
1,1,1-Trichloroethane	ug/kg	4.8 U	5.6 U	6.5 U	5.6 U	4.7 U	4.0 U	5.0 U	600 U
1,1-Dichloroethane	ug/kg	4.8 U	5.6 U	6.5 U	5.6 U	4.7 U	4.0 U	5.0 U	**77 J**
1,2,4-Trichlorobenzene	ug/kg	4.8 U	5.6 U	6.5 U	5.6 U	4.7 U	4.0 U	5.0 U	600 U
1,2-Dichlorobenzene	ug/kg	4.8 U	5.6 U	6.5 U	5.6 U	4.7 U	4.0 U	5.0 U	600 U
1,3-Dichlorobenzene	ug/kg	4.8 U	5.6 U	6.5 U	5.6 U	4.7 U	4.0 U	5.0 U	600 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	19 U	22 U	26 U	22 U	**3.8 J**	**3.8 J**	**5.3 J**	2400 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	19 U	22 U	26 U	22 U	**0.64 J**	16 U	20 U	2400 U
Acetone	ug/kg	36 U	22 U	26 U	22 U	24 UJ	26 UJ	38 U	2400 U
Benzene	ug/kg	**0.88 J**	5.6 U	6.5 U	5.6 U	**0.23 J**	**1.3 J**	**0.25 J**	**38 J**
Carbon disulfide	ug/kg	**0.72 J**	5.6 U	6.5 U	5.6 U	**0.47 J**	**0.93 J**	5.0 U	600 U
Chlorobenzene	ug/kg	4.8 U	5.6 U	6.5 U	5.6 U	4.7 U	**0.37 J**	**0.39 J**	600 U
Chloroform (Trichloromethane)	ug/kg	4.8 U	5.6 U	**0.40 J**	5.6 U	4.7 U	**0.25 J**	5.0 U	600 U
cis-1,2-Dichloroethene	ug/kg	**34**	5.6 U	6.5 U	5.6 U	4.7 U	4.0 U	5.0 U	**580 J**
Cyclohexane	ug/kg	**2.3 J**	11 U	13 U	11 U	9.5 U	**0.50 J**	10 U	1200 U
Ethylbenzene	ug/kg	**1.8 J**	**0.35 J**	6.5 U	5.6 U	**0.57 J**	**0.45 J**	5.0 U	**5300**
Isopropyl benzene	ug/kg	4.8 U	5.6 U	6.5 U	5.6 U	**0.34 J**	**0.46 J**	5.0 U	**330 J**
Methyl acetate	ug/kg	9.5 U	11 U	13 U	11 U	9.5 U	8.0 U	10 U	**230 J**
Methyl cyclohexane	ug/kg	**2.8 J**	11 U	13 U	11 U	9.5 U	**1.2 J**	10 U	**200 J**
Methylene chloride	ug/kg	4.8 UJ	**8.8 J**	**8.9 J**	**7.4 J**	**13 J**	**13 J**	13 U	600 U
Tetrachloroethene	ug/kg	**3.1 J**	5.6 U	6.5 U	5.6 U	4.7 U	4.0 U	5.0 U	600 U
Toluene	ug/kg	**3.5 J**	**0.65 J**	6.5 U	**0.47 J**	**0.76 J**	**1.0 J**	5.0 U	**390 J**
trans-1,2-Dichloroethene	ug/kg	4.8 U	5.6 U	6.5 U	5.6 U	4.7 U	4.0 U	5.0 U	**46 J**
Trichloroethene	ug/kg	**80**	5.6 U	**3.3 J**	**0.71 J**	4.7 U	4.0 U	5.0 U	**1200 J**
Vinyl chloride	ug/kg	4.8 U	5.6 U	6.5 U	5.6 U	4.7 U	4.0 U	5.0 U	**50 J**
Xylenes (total)	ug/kg	**3.3 J**	11 U	13 U	11 U	**1.6 J**	**1.7 J**	10 U	**7200**
Semi-Volatiles									
2,4-Dimethylphenol	ug/kg	-	-	-	-	-	-	-	-
2-Methylnaphthalene	ug/kg	-	-	-	-	-	-	-	-
2-Methylphenol	ug/kg	-	-	-	-	-	-	-	-
Acenaphthene	ug/kg	-	-	-	-	-	-	-	-
Acenaphthylene	ug/kg	-	-	-	-	-	-	-	-
Acetophenone	ug/kg	-	-	-	-	-	-	-	-
Anthracene	ug/kg	-	-	-	-	-	-	-	-
Benzaldehyde	ug/kg	-	-	-	-	-	-	-	-
Benzo(a)anthracene	ug/kg	-	-	-	-	-	-	-	-
Benzo(a)pyrene	ug/kg	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	ug/kg	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	ug/kg	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	ug/kg	-	-	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	ug/kg	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	-	-	-	-	-	-	-	-

Table 10

Summary of Detections
Soil/Fill Samples - EU13
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH72-13**	**BH73-13**	**BH74-13**	**BH74-13**	**BH78-13**	**BH78-13**	**BH80-13**	**BH81-13**
Sample ID:		**S-38443-062013-JT-026**	**S-38443-062013-JT-024**	**S-38443-062013-JT-022**	**S-38443-062013-JT-023**	**S-38443-062513-JT-043**	**S-38443-062513-JT-044**	**S-38443-062413-SM-042**	**S-38443-062613-JC-070**
Sample Date:		**6/20/2013**	**6/20/2013**	**6/20/2013**	**6/20/2013**	**6/25/2013**	**6/25/2013**	**6/24/2013**	**6/26/2013**
Sample Depth:		**18.75-20.75 ft BGS**	**18.5-20.5 ft BGS**	**0-2 ft BGS**	**19-21 ft BGS**	**20-22 ft BGS**	**20-22 ft BGS Duplicate**	**22.5-24.5 ft BGS**	**15-17 ft BGS**
Parameters	**Units**								
Carbazole	ug/kg	-	-	-	-	-	-	-	-
Chrysene	ug/kg	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	ug/kg	-	-	-	-	-	-	-	-
Dibenzofuran	ug/kg	-	-	-	-	-	-	-	-
Diethyl phthalate	ug/kg	-	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	ug/kg	-	-	-	-	-	-	-	-
Fluoranthene	ug/kg	-	-	-	-	-	-	-	-
Fluorene	ug/kg	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/kg	-	-	-	-	-	-	-	-
Naphthalene	ug/kg	-	-	-	-	-	-	-	-
Phenanthrene	ug/kg	-	-	-	-	-	-	-	-
Phenol	ug/kg	-	-	-	-	-	-	-	-
Pyrene	ug/kg	-	-	-	-	-	-	-	-
Metals									
Aluminum	mg/kg	-	-	-	-	-	-	-	-
Antimony	mg/kg	-	-	-	-	-	-	-	-
Arsenic	mg/kg	-	-	-	-	-	-	-	-
Barium	mg/kg	-	-	-	-	-	-	-	-
Beryllium	mg/kg	-	-	-	-	-	-	-	-
Cadmium	mg/kg	-	-	-	-	-	-	-	-
Calcium	mg/kg	-	-	-	-	-	-	-	-
Chromium	mg/kg	-	-	-	-	-	-	-	-
Chromium III (trivalent)	mg/kg	-	-	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-	-	-
Cobalt	mg/kg	-	-	-	-	-	-	-	-
Copper	mg/kg	-	-	-	-	-	-	-	-
Iron	mg/kg	-	-	-	-	-	-	-	-
Lead	mg/kg	-	-	-	-	-	-	-	-
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-	-
Magnesium	mg/kg	-	-	-	-	-	-	-	-
Manganese	mg/kg	-	-	-	-	-	-	-	-
Mercury	mg/kg	-	-	-	-	-	-	-	-
Nickel	mg/kg	-	-	-	-	-	-	-	-
Potassium	mg/kg	-	-	-	-	-	-	-	-
Selenium	mg/kg	-	-	-	-	-	-	-	-
Silver	mg/kg	-	-	-	-	-	-	-	-
Sodium	mg/kg	-	-	-	-	-	-	-	-
Thallium	mg/kg	-	-	-	-	-	-	-	-
Vanadium	mg/kg	-	-	-	-	-	-	-	-
Zinc	mg/kg	-	-	-	-	-	-	-	-

Table 10

Summary of Detections
Soil/Fill Samples - EU13
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH72-13**	**BH73-13**	**BH74-13**	**BH74-13**	**BH78-13**	**BH78-13**	**BH80-13**	**BH81-13**
Sample ID:		**S-38443-062013-JT-026**	**S-38443-062013-JT-024**	**S-38443-062013-JT-022**	**S-38443-062013-JT-023**	**S-38443-062513-JT-043**	**S-38443-062513-JT-044**	**S-38443-062413-SM-042**	**S-38443-062613-JC-070**
Sample Date:		**6/20/2013**	**6/20/2013**	**6/20/2013**	**6/20/2013**	**6/25/2013**	**6/25/2013**	**6/24/2013**	**6/26/2013**
Sample Depth:		**18.75-20.75 ft BGS**	**18.5-20.5 ft BGS**	**0-2 ft BGS**	**19-21 ft BGS**	**20-22 ft BGS**	**20-22 ft BGS Duplicate**	**22.5-24.5 ft BGS**	**15-17 ft BGS**
Parameters	**Units**								
PCBs									
Aroclor-1242 (PCB-1242)	ug/kg	-	35 U	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/kg	-	35 U	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/kg	-	35 U	-	-	-	-	-	-
Pesticides									
4,4'-DDD	ug/kg	-	-	-	-	-	-	-	-
4,4'-DDE	ug/kg	-	-	-	-	-	-	-	-
4,4'-DDT	ug/kg	-	-	-	-	-	-	-	-
Endrin aldehyde	ug/kg	-	-	-	-	-	-	-	-
Endrin ketone	ug/kg	-	-	-	-	-	-	-	-
Heptachlor epoxide	ug/kg	-	-	-	-	-	-	-	-
Methoxychlor	ug/kg	-	-	-	-	-	-	-	-
Dioxin/Furans									
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-	-
Asbestos									
Chrysotile asbestos	%	-	-	-	-	-	-	-	-

Table 10

Summary of Detections
Soil/Fill Samples - EU13
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH72-13**	**BH73-13**	**BH74-13**	**BH74-13**	**BH78-13**	**BH78-13**	**BH80-13**	**BH81-13**
Sample ID:		**S-38443-062013-JT-026**	**S-38443-062013-JT-024**	**S-38443-062013-JT-022**	**S-38443-062013-JT-023**	**S-38443-062513-JT-043**	**S-38443-062513-JT-044**	**S-38443-062413-SM-042**	**S-38443-062613-JC-070**
Sample Date:		**6/20/2013**	**6/20/2013**	**6/20/2013**	**6/20/2013**	**6/25/2013**	**6/25/2013**	**6/24/2013**	**6/26/2013**
Sample Depth:		**18.75-20.75 ft BGS**	**18.5-20.5 ft BGS**	**0-2 ft BGS**	**19-21 ft BGS**	**20-22 ft BGS**	**20-22 ft BGS**	**22.5-24.5 ft BGS**	**15-17 ft BGS**
							Duplicate		
Parameters	**Units**								
General Chemistry									
Cyanide (total)	mg/kg	-	-	-	-	-	-	-	-

Notes
< - Less than reported value.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 10

Summary of Detections
Soil/Fill Samples - EU13
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH81-13**	**BH107-18**	**BH108-18**	**BH109-18**	**BH110-18**	**BH159-17**	**BH159-17**	**SS-54**
Sample ID:		**S-38443-062613-JC-071**	**S-38443-011618-JC-046**	**S-38443-011218-JC-043**	**S-38443-011618-JC-044**	**S-38443-011618-JC-045**	**S-38443-121817-JC-010**	**S-38443-121817-JC-011**	**SS-38443-103018-JC-054**
Sample Date:		**6/26/2013**	**1/16/2018**	**1/12/2018**	**1/16/2018**	**1/16/2018**	**12/18/2017**	**12/18/2017**	**10/30/2018**
Sample Depth:		**22-24 ft BGS**	**12-14 ft BGS**	**7-9 ft BGS**	**7.5-9.5 ft BGS**	**6.3-8.3 ft BGS**	**13-15 ft BGS**	**19-21 ft BGS**	**0.25-2.25 ft BGS**
Parameters	**Units**								
Volatiles									
1,1,1-Trichloroethane	ug/kg	5.2 U	0.24 U	36 U	**54 J**	34 U	-	0.23 U	18 U
1,1-Dichloroethane	ug/kg	5.2 U	0.34 U	40 U	53 U	38 U	-	0.33 U	11 UJ
1,2,4-Trichlorobenzene	ug/kg	5.2 U	0.25 U	34 U	44 U	32 U	-	0.24 U	170 U
1,2-Dichlorobenzene	ug/kg	5.2 U	0.23 U	23 U	31 U	22 U	-	**1.7 J**	27 U
1,3-Dichlorobenzene	ug/kg	5.2 U	0.30 U	49 U	65 U	46 U	-	0.29 U	27 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	**4.4 J**	1.3 U	65 U	85 U	61 U	-	4.5 U	200 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	21 U	0.93 U	52 U	68 U	49 U	-	0.89 U	300 U
Acetone	ug/kg	28 U	3.2 U	130 U	170 U	120 U	-	26 U	310 U
Benzene	ug/kg	**0.62 J**	0.33 U	31 U	41 U	29 U	-	0.32 U	10 UJ
Carbon disulfide	ug/kg	**2.4 J**	0.22 U	23 U	31 U	22 U	-	**2.3 J**	140 UJ
Chlorobenzene	ug/kg	**12**	0.34 U	39 U	51 U	37 U	-	**1.2 J**	44 U
Chloroform (Trichloromethane)	ug/kg	5.2 U	0.24 U	31 U	41 U	29 U	-	0.23 U	11 U
cis-1,2-Dichloroethene	ug/kg	5.2 U	0.29 U	**180 J**	60 U	43 U	-	**1.7 J**	11 UJ
Cyclohexane	ug/kg	**2.0 J**	0.22 U	39 U	**85 J**	37 U	-	0.21 U	210 UJ
Ethylbenzene	ug/kg	**1.6 J**	0.28 U	46 U	60 U	43 U	-	0.27 U	24 U
Isopropyl benzene	ug/kg	**4.9 J**	0.21 U	44 U	58 U	**45 J**	-	0.20 U	48 U
Methyl acetate	ug/kg	10 U	1.2 U	98 U	130 U	92 U	-	1.2 U	670 U
Methyl cyclohexane	ug/kg	**1.5 J**	0.24 U	48 U	**270 J**	45 U	-	**0.27 J**	84 UJ
Methylene chloride	ug/kg	12 U	6.1 U	85 U	160 U	100 U	-	0.24 U	490 U
Tetrachloroethene	ug/kg	5.2 U	0.39 U	27 U	**6200**	26 U	-	0.37 U	41 U
Toluene	ug/kg	**1.7 J**	0.35 U	31 U	41 U	29 U	-	**0.66 J**	180 U
trans-1,2-Dichloroethene	ug/kg	5.2 U	0.40 U	46 U	60 U	43 U	-	0.38 U	19 UJ
Trichloroethene	ug/kg	**2.1 J**	**2.8 J**	**2800**	**340 J**	45 U	-	**4.4 J**	**890 J**
Vinyl chloride	ug/kg	5.2 U	0.29 U	22 U	29 U	21 U	-	0.28 U	13 UJ
Xylenes (total)	ug/kg	**6.4 J**	0.42 U	36 U	**49 J**	**45 J**	-	**0.70 J**	**120 J**
Semi-Volatiles									
2,4-Dimethylphenol	ug/kg	-	110 U	24 U	**170 J**	240 U	-	21 U	46 U
2-Methylnaphthalene	ug/kg	-	**26 J**	**75**	**5200**	**420**	-	**28**	**140 J**
2-Methylphenol	ug/kg	-	62 U	13 U	**110 J**	130 U	-	11 U	36 U
Acenaphthene	ug/kg	-	4.3 U	**12**	**150**	**550**	-	0.79 U	3.3 U
Acenaphthylene	ug/kg	-	2.0 U	**4.6 J**	**98**	4.2 U	-	0.36 U	**6.1 J**
Acetophenone	ug/kg	-	52 U	11 U	**340 J**	110 U	-	9.6 U	**17 J**
Anthracene	ug/kg	-	4.4 U	**31**	6.4 U	9.4 U	-	0.81 U	**15 J**
Benzaldehyde	ug/kg	-	67 U	**24 J**	98 U	140 U	-	12 U	27 U
Benzo(a)anthracene	ug/kg	-	3.5 U	**250**	**360**	7.6 U	-	**15**	**120**
Benzo(a)pyrene	ug/kg	-	**88**	**390**	**310**	7.7 U	-	**15**	**150**
Benzo(b)fluoranthene	ug/kg	-	**120**	**640**	**480**	7.1 U	-	**26**	**290**
Benzo(g,h,i)perylene	ug/kg	-	**63**	**250**	**480**	4.2 U	-	**17**	**150**
Benzo(k)fluoranthene	ug/kg	-	**22 J**	**230**	**110**	8.2 U	-	**9.2**	**85**
Biphenyl (1,1-Biphenyl)	ug/kg	-	20 U	**19 J**	**480**	42 U	-	**5.4 J**	20 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	-	110 U	**210**	**370 J**	**1300**	-	**35 J**	59 U

Table 10

Summary of Detections
Soil/Fill Samples - EU13
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH81-13**	**BH107-18**	**BH108-18**	**BH109-18**	**BH110-18**	**BH159-17**	**BH159-17**	**SS-54**
Sample ID:		**S-38443-062613-JC-071**	**S-38443-011618-JC-046**	**S-38443-011218-JC-043**	**S-38443-011618-JC-044**	**S-38443-011618-JC-045**	**S-38443-121817-JC-010**	**S-38443-121817-JC-011**	**SS-38443-103018-JC-054**
Sample Date:		**6/26/2013**	**1/16/2018**	**1/12/2018**	**1/16/2018**	**1/16/2018**	**12/18/2017**	**12/18/2017**	**10/30/2018**
Sample Depth:		**22-24 ft BGS**	**12-14 ft BGS**	**7-9 ft BGS**	**7.5-9.5 ft BGS**	**6.3-8.3 ft BGS**	**13-15 ft BGS**	**19-21 ft BGS**	**0.25-2.25 ft BGS**
Parameters	**Units**								
Carbazole	ug/kg	-	150 U	**34 J**	220 U	320 U	-	28 U	22 U
Chrysene	ug/kg	-	6.2 U	**400**	**600**	13 U	-	**22**	**160**
Dibenz(a,h)anthracene	ug/kg	-	3.7 U	**51**	5.4 U	7.9 U	-	0.69 U	**49 J**
Dibenzofuran	ug/kg	-	3.7 U	**30 J**	**1100**	7.9 U	-	0.69 U	**31 J**
Diethyl phthalate	ug/kg	-	90 U	**19 J**	130 U	190 U	-	**20 J**	36 U
Di-n-butylphthalate (DBP)	ug/kg	-	84 U	18 U	120 U	180 U	-	16 U	25 U
Fluoranthene	ug/kg	-	**38**	**560**	**620**	**160**	-	**39**	**150**
Fluorene	ug/kg	-	3.0 U	**11**	**170**	**670**	-	0.55 U	3.2 U
Indeno(1,2,3-cd)pyrene	ug/kg	-	**50**	**210**	**180**	4.2 U	-	**12**	**140**
Naphthalene	ug/kg	-	4.6 U	**63**	**3200**	**290**	-	**13**	**110 J**
Phenanthrene	ug/kg	-	**44**	**320**	**2500**	**1300**	-	**38**	**110**
Phenol	ug/kg	-	41 U	8.6 U	60 U	88 U	-	7.6 U	9.2 U
Pyrene	ug/kg	-	**39**	**450**	**550**	**300**	-	**32**	**130**
Metals									
Aluminum	mg/kg	-	**6800**	**4900**	**7700**	**14000**	-	**2600**	**7800**
Antimony	mg/kg	-	**0.24 J**	**4.3**	**2.8**	**0.33 J**	-	**0.23 J**	**14 J**
Arsenic	mg/kg	-	**5.7**	**11**	**51**	**8.8**	-	**3.6**	**8.2 J**
Barium	mg/kg	-	**1200**	**660**	**290**	**84**	-	**44**	**90**
Beryllium	mg/kg	-	**0.40**	**0.53**	**1.7**	**0.82**	-	**0.15 J**	**0.50**
Cadmium	mg/kg	-	**0.26**	**4.9**	**1.8**	**0.18 J**	-	**0.29**	**1.2**
Calcium	mg/kg	-	**76000**	**61000**	**38000**	**3000**	-	**100000**	**47000**
Chromium	mg/kg	-	**11**	**39**	**41**	**20**	**18**	**45**	**26**
Chromium III (trivalent)	mg/kg	-	**11**	**39**	**41**	**20**	**18**	**45**	**25**
Chromium VI (hexavalent)	mg/kg	-	0.27 U	1.4 U	1.5 U	1.4 U	1.4 U	1.3 U	**0.84 J**
Cobalt	mg/kg	-	**4.4**	**6.9**	**8.3**	**7.6**	-	**2.4**	**6.0**
Copper	mg/kg	-	**22**	**670**	**950**	**16**	-	**20**	**290 J**
Iron	mg/kg	-	**11000**	**34000**	**45000**	**21000**	-	**8700**	**22000**
Lead	mg/kg	-	**100**	**730**	**380**	**14**	-	**110**	**710 J**
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-	-
Magnesium	mg/kg	-	**33000**	**21000**	**13000**	**2500**	-	**30000**	**21000 J**
Manganese	mg/kg	-	**280**	**470**	**320**	**620**	-	**910**	**450**
Mercury	mg/kg	-	**0.039 J**	**0.49**	**0.48**	**0.037 J**	-	0.017 U	**0.070 J**
Nickel	mg/kg	-	**12**	**41**	**29**	**17**	-	**8.6**	**24 J**
Potassium	mg/kg	-	**920**	**510**	**730**	**1400**	-	**490**	**830**
Selenium	mg/kg	-	**0.47 J**	**0.94 J**	**2.8**	**0.94 J**	-	**0.27 J**	**0.30 J**
Silver	mg/kg	-	**0.097 J**	**1.3**	**0.48**	**0.027 J**	-	**0.091 J**	**0.52 J**
Sodium	mg/kg	-	**140 J**	**210**	**330**	**80 J**	-	**150 J**	**990**
Thallium	mg/kg	-	**0.13 J**	**0.11 J**	**1.2**	**0.17 J**	-	**0.11 J**	**0.14 J**
Vanadium	mg/kg	-	**16**	**16**	**30**	**33**	-	**9.2**	**22**
Zinc	mg/kg	-	**360**	**860**	**370**	**53**	-	**35**	**700 J**

Table 10

Summary of Detections
Soil/Fill Samples - EU13
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH81-13**	**BH107-18**	**BH108-18**	**BH109-18**	**BH110-18**	**BH159-17**	**BH159-17**	**SS-54**
Sample ID:		**S-38443-062613-JC-071**	**S-38443-011618-JC-046**	**S-38443-011218-JC-043**	**S-38443-011618-JC-044**	**S-38443-011618-JC-045**	**S-38443-121817-JC-010**	**S-38443-121817-JC-011**	**SS-38443-103018-JC-054**
Sample Date:		**6/26/2013**	**1/16/2018**	**1/12/2018**	**1/16/2018**	**1/16/2018**	**12/18/2017**	**12/18/2017**	**10/30/2018**
Sample Depth:		**22-24 ft BGS**	**12-14 ft BGS**	**7-9 ft BGS**	**7.5-9.5 ft BGS**	**6.3-8.3 ft BGS**	**13-15 ft BGS**	**19-21 ft BGS**	**0.25-2.25 ft BGS**
Parameters	**Units**								
PCBs									
Aroclor-1242 (PCB-1242)	ug/kg	-	22 U	22 U	120 U	23 U	-	20 U	21 U
Aroclor-1254 (PCB-1254)	ug/kg	-	27 U	**180**	**1100**	28 U	-	24 U	26 U
Aroclor-1260 (PCB-1260)	ug/kg	-	26 U	25 U	140 U	27 U	-	23 U	**54 J**
Pesticides									
4,4'-DDD	ug/kg	-	190 U	19 U	41 U	41 U	-	**36 J**	17 U
4,4'-DDE	ug/kg	-	67 U	6.8 U	15 U	15 U	-	13 U	17 U
4,4'-DDT	ug/kg	-	79 U	8.0 U	17 U	17 U	-	15 U	13 U
Endrin aldehyde	ug/kg	-	100 U	10 U	22 U	22 U	-	19 U	15 U
Endrin ketone	ug/kg	-	62 U	6.3 U	14 U	14 U	-	12 U	9.9 U
Heptachlor epoxide	ug/kg	-	130 U	14 U	30 U	29 U	-	25 U	16 U
Methoxychlor	ug/kg	-	67 U	**7.1 NJ**	15 U	15 U	-	13 U	73 U
Dioxin/Furans									
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-	-
Asbestos									
Chrysotile asbestos	%	-	-	-	-	-	-	-	-

Table 10

Summary of Detections
Soil/Fill Samples - EU13
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH81-13**	**BH107-18**	**BH108-18**	**BH109-18**	**BH110-18**	**BH159-17**	**BH159-17**	**SS-54**
Sample ID:		**S-38443-062613-JC-071**	**S-38443-011618-JC-046**	**S-38443-011218-JC-043**	**S-38443-011618-JC-044**	**S-38443-011618-JC-045**	**S-38443-121817-JC-010**	**S-38443-121817-JC-011**	**SS-38443-103018-JC-054**
Sample Date:		**6/26/2013**	**1/16/2018**	**1/12/2018**	**1/16/2018**	**1/16/2018**	**12/18/2017**	**12/18/2017**	**10/30/2018**
Sample Depth:		**22-24 ft BGS**	**12-14 ft BGS**	**7-9 ft BGS**	**7.5-9.5 ft BGS**	**6.3-8.3 ft BGS**	**13-15 ft BGS**	**19-21 ft BGS**	**0.25-2.25 ft BGS**
Parameters	**Units**								
General Chemistry									
Cyanide (total)	mg/kg	-	0.055 U	0.47 U	**2.9**	0.058 U	-	**0.051 J**	0.22 U

Notes
< - Less than reported value.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 10

Summary of Detections
Soil/Fill Samples - EU13
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-54**	**SS-55**	**SS-55**	**SS-56**	**SS-57**	**SS-58**	**SS-59**
Sample ID:		**SS-38443-103018-JC-117**	**SS-38443-102918-JC-055**	**SS-38443-102918-JC-115**	**SS-38443-103018-JC-056**	**SS-38443-103018-JC-057**	**S-38443-110317-BW-021**	**SS-38443-103018-JC-059**
Sample Date:		**10/30/2018**	**10/29/2018**	**10/29/2018**	**10/30/2018**	**10/30/2018**	**11/3/2017**	**10/30/2018**
Sample Depth:		**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
		Duplicate		**Duplicate**				
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/kg	16 U	49 U	**2.1 J**	20 U	33 UJ	0.84 U	R
1,1-Dichloroethane	ug/kg	10 UJ	31 U	**25 J**	13 UJ	21 UJ	1.2 U	R
1,2,4-Trichlorobenzene	ug/kg	150 U	460 U	R	190 U	310 UJ	0.88 U	R
1,2-Dichlorobenzene	ug/kg	24 U	73 U	R	29 U	49 UJ	0.81 U	R
1,3-Dichlorobenzene	ug/kg	24 U	73 U	R	29 U	49 UJ	1.1 U	R
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	180 U	550 U	**22 J**	220 U	370 UJ	4.7 U	**510 J**
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	280 U	830 U	R	330 U	560 UJ	3.3 U	R
Acetone	ug/kg	280 U	850 U	R	340 U	570 UJ	11 U	**1200 J**
Benzene	ug/kg	9.3 UJ	28 U	R	11 UJ	19 UJ	1.2 U	**190 J**
Carbon disulfide	ug/kg	130 UJ	380 U	R	150 UJ	250 UJ	0.77 U	R
Chlorobenzene	ug/kg	41 U	120 U	R	49 U	82 UJ	1.2 U	**920 J**
Chloroform (Trichloromethane)	ug/kg	10 U	31 U	R	13 U	21 UJ	0.84 U	R
cis-1,2-Dichloroethene	ug/kg	10 UJ	31 U	**32 J**	**130 J**	**390 J**	1.0 U	**51 J**
Cyclohexane	ug/kg	190 UJ	570 U	R	230 UJ	380 UJ	0.77 U	**1400 J**
Ethylbenzene	ug/kg	18 U	42 U	R	21 U	33 UJ	0.99 U	**4000 J**
Isopropyl benzene	ug/kg	44 U	130 U	R	53 U	89 UJ	0.73 U	**2700 J**
Methyl acetate	ug/kg	610 U	1800 U	R	730 U	1200 UJ	4.3 U	R
Methyl cyclohexane	ug/kg	76 UJ	230 U	**3.7 J**	92 UJ	160 UJ	0.84 U	**11000 J**
Methylene chloride	ug/kg	440 U	1300 U	R	530 U	900 UJ	0.88 U	R
Tetrachloroethene	ug/kg	42 U	**230 J**	R	55 U	41 UJ	1.4 U	R
Toluene	ug/kg	108 U	220 U	**3.1 J**	119 U	190 U	1.2 U	**1100 J**
trans-1,2-Dichloroethene	ug/kg	17 UJ	52 U	**10 J**	21 UJ	**66 J**	1.4 U	R
Trichloroethene	ug/kg	**1500 J**	**180 J**	**35 J**	**4000 J**	**13000 J**	1.5 U	R
Vinyl chloride	ug/kg	12 UJ	35 U	**4.9 J**	14 UJ	24 UJ	1.0 U	R
Xylenes (total)	ug/kg	27 U	80 U	R	32 U	54 UJ	1.5 U	**14000 J**
Semi-Volatiles								
2,4-Dimethylphenol	ug/kg	44 U	R	66 UJ	480 U	60 U	28 U	3600 U
2-Methylnaphthalene	ug/kg	**28 J**	3.3 UJ	**130 J**	**210**	**5.0 J**	**420**	**8600**
2-Methylphenol	ug/kg	34 U	R	51 UJ	370 U	47 U	15 U	2800 U
Acenaphthene	ug/kg	3.2 U	4.8 U	4.7 U	**590**	4.3 U	1.1 U	**340 J**
Acenaphthylene	ug/kg	**7.4 J**	6.7 U	6.6 U	**63 J**	6.0 U	0.49 U	370 U
Acetophenone	ug/kg	12 U	18 U	**19 J**	130 U	17 U	**43 J**	1000 U
Anthracene	ug/kg	**25**	4.0 U	**19 J**	**1700**	3.6 U	1.1 U	220 U
Benzaldehyde	ug/kg	25 U	38 U	38 U	280 U	35 U	**55 J**	2100 U
Benzo(a)anthracene	ug/kg	**230**	5.7 UJ	**75 J**	**5200**	5.1 U	**61**	**650 J**
Benzo(a)pyrene	ug/kg	**290**	16 UJ	**63 J**	**5200**	**15 J**	**46**	850 U
Benzo(b)fluoranthene	ug/kg	**610**	11 UJ	**87 J**	**8000**	**10 J**	**67**	**660 J**
Benzo(g,h,i)perylene	ug/kg	**290**	12 UJ	**41 J**	**3600**	11 U	**33**	650 U
Benzo(k)fluoranthene	ug/kg	**180**	12 U	**28**	**3000**	10 U	**22**	630 U
Biphenyl (1,1-Biphenyl)	ug/kg	**19 J**	28 U	28 U	210 U	26 U	**65 J**	1500 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	**78**	85 U	**110 J**	620 U	77 U	48 U	**10000**

Table 10

Summary of Detections
Soil/Fill Samples - EU13
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-54**	**SS-55**	**SS-55**	**SS-56**	**SS-57**	**SS-58**	**SS-59**
Sample ID:		**SS-38443-103018-JC-117**	**SS-38443-102918-JC-055**	**SS-38443-102918-JC-115**	**SS-38443-103018-JC-056**	**SS-38443-103018-JC-057**	**S-38443-110317-BW-021**	**SS-38443-103018-JC-059**
Sample Date:		**10/30/2018**	**10/29/2018**	**10/29/2018**	**10/30/2018**	**10/30/2018**	**11/3/2017**	**10/30/2018**
Sample Depth:		**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
		Duplicate		**Duplicate**				
Parameters	**Units**							
Carbazole	ug/kg	**21 J**	32 U	31 U	**1100**	29 U	38 U	1700 U
Chrysene	ug/kg	**310**	2.5 UJ	**86 J**	**5700**	**12 J**	**75**	**1200 J**
Dibenz(a,h)anthracene	ug/kg	**97 J**	12 U	**15 J**	**920**	10 U	0.93 U	630 U
Dibenzofuran	ug/kg	**18 J**	22 U	**29 J**	**430 J**	20 U	**130**	1200 U
Diethyl phthalate	ug/kg	34 U	52 U	51 U	370 U	47 U	22 U	2800 U
Di-n-butylphthalate (DBP)	ug/kg	24 U	37 U	36 U	270 U	33 U	**37 J**	**3600 J**
Fluoranthene	ug/kg	**320**	7.4 UJ	**140 J**	**11000**	**15 J**	**69**	**1100 J**
Fluorene	ug/kg	**6.1 J**	4.6 U	**16 J**	**580**	4.1 U	0.74 U	**420 J**
Indeno(1,2,3-cd)pyrene	ug/kg	**270**	12 UJ	**42 J**	**3100**	11 U	**17**	670 U
Naphthalene	ug/kg	**31 J**	4.0 UJ	**96 J**	**390**	3.6 U	**230**	**4200**
Phenanthrene	ug/kg	**170**	3.7 UJ	**140 J**	**7800**	**17 J**	**320**	**4100**
Phenol	ug/kg	8.8 U	R	13 UJ	97 U	12 U	10 U	**6600**
Pyrene	ug/kg	**260**	3.6 UJ	**110 J**	**8900**	**15 J**	**80**	**2000**
Metals								
Aluminum	mg/kg	**6200**	**5400**	**5200**	**8400**	**7100**	**1700 J**	**4500**
Antimony	mg/kg	**1400 J**	**1.0**	**1.3**	**18 J**	**0.68 J**	0.33 UJ	**0.59 J**
Arsenic	mg/kg	**59 J**	**20**	**17**	**23**	**19**	**7.9**	**3.6**
Barium	mg/kg	**100**	**310**	**170**	**1800**	**770**	**57**	**55**
Beryllium	mg/kg	**0.48**	**6.0**	**5.2**	**1.2**	**3.1**	**0.56**	**0.42**
Cadmium	mg/kg	**2.4**	**0.10 J**	**0.32**	**13**	0.16 U	**0.44**	**0.36**
Calcium	mg/kg	**16000**	**3900**	**11000**	**42000**	**1400**	**1600**	**120000**
Chromium	mg/kg	**30**	**16**	**20**	**91**	**24**	**3.5**	**8.5**
Chromium III (trivalent)	mg/kg	**30**	**16**	**20**	**91**	**22**	-	**8.5**
Chromium VI (hexavalent)	mg/kg	0.27 U	0.40 U	0.40 U	0.29 U	**1.4**	-	1.3 U
Cobalt	mg/kg	**5.7**	**14**	**12**	**17**	**8.1**	**2.9**	**2.2**
Copper	mg/kg	**1600 J**	**49**	**72**	**1600**	**44**	**12**	**54**
Iron	mg/kg	**28000**	**7500**	**17000**	**76000**	**4800**	**7200**	**6400**
Lead	mg/kg	**26000 J**	**28**	**55**	**1900 J**	**38 J**	**2.9**	**190 J**
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	**6300**
Lead - fine fraction	mg/kg	-	-	-	-	-	-	**5300**
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	**6300**
Magnesium	mg/kg	**6300 J**	**360**	**3700**	**10000**	**420**	**290**	**38000**
Manganese	mg/kg	**490**	**19**	**140**	**580**	**20**	**150**	**560**
Mercury	mg/kg	**0.12**	**0.12 J**	**0.12 J**	**0.57**	**0.18**	**0.039 J**	**0.19**
Nickel	mg/kg	**210 J**	**24**	**24**	**100**	**17**	**10**	**6.0**
Potassium	mg/kg	**580**	**320**	**350**	**890**	**1000**	210 U	**650**
Selenium	mg/kg	**0.37 J**	**0.94 J**	**1.0 J**	**3.4**	**2.4**	**1.2 J**	**0.16 J**
Silver	mg/kg	**6.8 J**	**0.051 J**	**0.097 J**	**28**	**0.16 J**	**0.018 J**	**0.083 J**
Sodium	mg/kg	**840 J**	**140 J**	**140 J**	**420**	**370**	60 U	**450**
Thallium	mg/kg	**0.16 J**	**1.1**	**0.59**	**0.25**	**0.28**	**0.21 J**	0.067 U
Vanadium	mg/kg	**17**	**45**	**34**	**31**	**36**	**7.8**	**9.1**
Zinc	mg/kg	**1600 J**	**14**	**66**	**3100 J**	**87 J**	**47**	**36 J**

Table 10

Summary of Detections
Soil/Fill Samples - EU13
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-54**	**SS-55**	**SS-55**	**SS-56**	**SS-57**	**SS-58**	**SS-59**
Sample ID:		**SS-38443-103018-JC-117**	**SS-38443-102918-JC-055**	**SS-38443-102918-JC-115**	**SS-38443-103018-JC-056**	**SS-38443-103018-JC-057**	**S-38443-110317-BW-021**	**SS-38443-103018-JC-059**
Sample Date:		**10/30/2018**	**10/29/2018**	**10/29/2018**	**10/30/2018**	**10/30/2018**	**11/3/2017**	**10/30/2018**
Sample Depth:		**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
		Duplicate		**Duplicate**				
Parameters	**Units**							
PCBs								
Aroclor-1242 (PCB-1242)	ug/kg	21 U	32 U	30 U	23 U	28 U	29 U	1900 U
Aroclor-1254 (PCB-1254)	ug/kg	25 U	**75 J**	**49 J**	**63**	**700**	20 U	**140000**
Aroclor-1260 (PCB-1260)	ug/kg	**110**	37 U	35 U	26 U	32 U	26 U	2200 U
Pesticides								
4,4'-DDD	ug/kg	1.6 U	**43 J**	**34 NJ**	18 U	22 U	48 U	150 U
4,4'-DDE	ug/kg	1.6 U	25 U	12 U	18 U	22 U	18 U	150 U
4,4'-DDT	ug/kg	**3.5 NJ**	19 U	**34 J**	14 U	**40 J**	20 U	120 U
Endrin aldehyde	ug/kg	1.4 U	22 U	10 U	16 U	19 U	26 U	**280 J**
Endrin ketone	ug/kg	0.97 U	15 U	**17 J**	11 U	13 U	16 U	91 U
Heptachlor epoxide	ug/kg	1.6 U	24 U	11 U	17 U	21 U	35 U	150 U
Methoxychlor	ug/kg	7.1 U	110 UJ	52 UJ	79 U	97 U	18 U	670 U
Dioxin/Furans								
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Asbestos								
Chrysotile asbestos	%	-	-	-	-	-	-	-

Table 10

Summary of Detections
Soil/Fill Samples - EU13
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-54**	**SS-55**	**SS-55**	**SS-56**	**SS-57**	**SS-58**	**SS-59**
Sample ID:		**SS-38443-103018-JC-117**	**SS-38443-102918-JC-055**	**SS-38443-102918-JC-115**	**SS-38443-103018-JC-056**	**SS-38443-103018-JC-057**	**S-38443-110317-BW-021**	**SS-38443-103018-JC-059**
Sample Date:		**10/30/2018**	**10/29/2018**	**10/29/2018**	**10/30/2018**	**10/30/2018**	**11/3/2017**	**10/30/2018**
Sample Depth:		**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
		Duplicate		**Duplicate**				
Parameters	**Units**							
General Chemistry								
Cyanide (total)	mg/kg	0.23 U	**0.41 J**	0.33 U	**0.77**	**1.7**	**1.9 J**	0.22 U

Notes
< - Less than reported value.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 10

Summary of Detections
Soil/Fill Samples - EU13
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-60**	**SS-61**	**SS-94**	**SS-168-AS**	**TT-40**	**TT-40**
Sample ID:		**SS-38443-103018-JC-060**	**SS-38443-103018-JC-061**	**SS-38443-103018-JC-094**	**SS-38443-103018-JC-168**	**TT-40**	**S-38443-110317-BW-022**
Sample Date:		**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**11/3/2017**	**11/3/2017**
Sample Depth:		**0.17-2.17 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-0.5 ft BGS**	**2-4 ft BGS**	**6-8 ft BGS**
Parameters	**Units**						
Volatiles							
1,1,1-Trichloroethane	ug/kg	39 UJ	0.95 U	-	-	-	160 U
1,1-Dichloroethane	ug/kg	25 UJ	0.81 U	-	-	-	180 U
1,2,4-Trichlorobenzene	ug/kg	370 UJ	R	-	-	-	150 U
1,2-Dichlorobenzene	ug/kg	58 UJ	R	-	-	-	100 U
1,3-Dichlorobenzene	ug/kg	58 UJ	R	-	-	-	220 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	440 UJ	4.1 U	-	-	-	290 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	660 UJ	4.3 U	-	-	-	230 UJ
Acetone	ug/kg	680 UJ	24 U	-	-	-	560 U
Benzene	ug/kg	22 UJ	0.81 U	-	-	-	140 U
Carbon disulfide	ug/kg	300 UJ	1.4 U	-	-	-	100 U
Chlorobenzene	ug/kg	97 UJ	1.1 U	-	-	-	170 U
Chloroform (Trichloromethane)	ug/kg	25 UJ	0.92 U	-	-	-	140 U
cis-1,2-Dichloroethene	ug/kg	25 UJ	0.76 U	-	-	-	200 U
Cyclohexane	ug/kg	450 UJ	1.6 U	-	-	-	170 U
Ethylbenzene	ug/kg	46 UJ	1.2 U	-	-	-	200 U
Isopropyl benzene	ug/kg	110 UJ	0.97 U	-	-	-	200 U
Methyl acetate	ug/kg	1500 UJ	4.0 U	-	-	-	430 U
Methyl cyclohexane	ug/kg	180 UJ	1.4 U	-	-	-	210 U
Methylene chloride	ug/kg	1100 UJ	14 U	-	-	-	370 U
Tetrachloroethene	ug/kg	**7200 J**	0.85 U	-	-	-	120 U
Toluene	ug/kg	290 U	0.90 U	-	-	-	140 U
trans-1,2-Dichloroethene	ug/kg	42 UJ	0.54 U	-	-	-	200 U
Trichloroethene	ug/kg	**270 J**	**5.3 J**	-	-	-	210 U
Vinyl chloride	ug/kg	28 UJ	0.97 U	-	-	-	98 U
Xylenes (total)	ug/kg	64 UJ	1.8 U	-	-	-	**160 J**
Semi-Volatiles							
2,4-Dimethylphenol	ug/kg	53 UJ	170 U	-	-	-	230 U
2-Methylnaphthalene	ug/kg	**210**	**310**	-	-	-	**8800**
2-Methylphenol	ug/kg	41 UJ	130 U	-	-	-	130 U
Acenaphthene	ug/kg	3.8 U	12 U	-	-	-	**360**
Acenaphthylene	ug/kg	5.3 U	**190**	-	-	-	4.1 U
Acetophenone	ug/kg	15 U	48 U	-	-	-	110 U
Anthracene	ug/kg	**9.7 J**	**300**	-	-	-	9.0 U
Benzaldehyde	ug/kg	30 U	100 U	-	-	-	140 U
Benzo(a)anthracene	ug/kg	**30**	**1500**	-	-	-	**82**
Benzo(a)pyrene	ug/kg	**28**	**1100**	-	-	-	**110**
Benzo(b)fluoranthene	ug/kg	**47**	**2900**	-	-	-	**110**
Benzo(g,h,i)perylene	ug/kg	**40**	**880**	-	-	-	4.1 U
Benzo(k)fluoranthene	ug/kg	**11 J**	**840**	-	-	-	7.9 U
Biphenyl (1,1-Biphenyl)	ug/kg	**23 J**	74 U	-	-	-	**1600**
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	**79 J**	220 U	-	-	-	520 U

Table 10

Summary of Detections
Soil/Fill Samples - EU13
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-60**	**SS-61**	**SS-94**	**SS-168-AS**	**TT-40**	**TT-40**
Sample ID:		**SS-38443-103018-JC-060**	**SS-38443-103018-JC-061**	**SS-38443-103018-JC-094**	**SS-38443-103018-JC-168**	**TT-40**	**S-38443-110317-BW-022**
Sample Date:		**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**11/3/2017**	**11/3/2017**
Sample Depth:		**0.17-2.17 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-0.5 ft BGS**	**2-4 ft BGS**	**6-8 ft BGS**
Parameters	**Units**						
Carbazole	ug/kg	25 U	**170 J**	-	-	-	310 U
Chrysene	ug/kg	**50**	**2000**	-	-	-	**120**
Dibenz(a,h)anthracene	ug/kg	9.2 U	**310**	-	-	-	7.7 U
Dibenzofuran	ug/kg	**54 J**	**120 J**	-	-	-	**320 J**
Diethyl phthalate	ug/kg	41 U	130 U	-	-	-	190 U
Di-n-butylphthalate (DBP)	ug/kg	29 U	**310**	-	-	-	170 U
Fluoranthene	ug/kg	**55**	**2300**	-	-	-	**260**
Fluorene	ug/kg	3.6 U	**79**	-	-	-	**600**
Indeno(1,2,3-cd)pyrene	ug/kg	9.8 U	**820**	-	-	-	4.1 U
Naphthalene	ug/kg	**140**	**290**	-	-	-	**11000**
Phenanthrene	ug/kg	**160**	**1100**	-	-	-	**1300**
Phenol	ug/kg	11 UJ	35 U	-	-	-	85 U
Pyrene	ug/kg	**45**	**1700**	-	-	-	**220**
Metals							
Aluminum	mg/kg	**7700**	**7800**	-	-	-	**1900 J**
Antimony	mg/kg	**2.1 J**	**23 J**	-	-	-	**1.2 J**
Arsenic	mg/kg	**70**	**52**	-	-	-	**12**
Barium	mg/kg	**460**	**1100**	-	-	-	**67**
Beryllium	mg/kg	**4.5**	**0.91**	-	-	-	**0.31**
Cadmium	mg/kg	**1.4**	**30**	-	-	-	**1.9**
Calcium	mg/kg	**5600**	**19000**	-	-	-	**1200**
Chromium	mg/kg	**28**	**370**	-	-	-	**18**
Chromium III (trivalent)	mg/kg	**28**	**370**	-	-	-	-
Chromium VI (hexavalent)	mg/kg	1.6 U	0.26 U	-	-	-	-
Cobalt	mg/kg	**13**	**24**	-	-	-	**3.5**
Copper	mg/kg	**310**	**3300**	-	-	-	**370**
Iron	mg/kg	**13000**	**180000**	-	-	-	**18000**
Lead	mg/kg	**220 J**	**3400 J**	-	-	-	**100**
Lead - coarse fraction	mg/kg	-	**980**	-	-	-	-
Lead - fine fraction	mg/kg	-	**1500**	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	**1100**	-	-	-	-
Magnesium	mg/kg	**1700**	**4900**	-	-	-	**600**
Manganese	mg/kg	**60**	**2300**	-	-	-	**600**
Mercury	mg/kg	**0.087 J**	**3.2**	-	-	-	**0.031 J**
Nickel	mg/kg	**29**	**310**	-	-	-	**17**
Potassium	mg/kg	**900**	**1100**	-	-	-	180 U
Selenium	mg/kg	**4.0**	**3.7**	-	-	-	**1.3**
Silver	mg/kg	**0.89**	**12**	-	-	-	**0.12 J**
Sodium	mg/kg	**150 J**	**1500**	-	-	-	65 U
Thallium	mg/kg	**2.0**	**1.0**	-	-	-	**0.22 J**
Vanadium	mg/kg	**66**	**130**	-	-	-	**5.0**
Zinc	mg/kg	**120 J**	**3400 J**	-	-	-	**310**

Table 10

Summary of Detections
Soil/Fill Samples - EU13
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-60**	**SS-61**	**SS-94**	**SS-168-AS**	**TT-40**	**TT-40**
Sample ID:		**SS-38443-103018-JC-060**	**SS-38443-103018-JC-061**	**SS-38443-103018-JC-094**	**SS-38443-103018-JC-168**	**TT-40**	**S-38443-110317-BW-022**
Sample Date:		**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**11/3/2017**	**11/3/2017**
Sample Depth:		**0.17-2.17 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-0.5 ft BGS**	**2-4 ft BGS**	**6-8 ft BGS**
Parameters	**Units**						
PCBs							
Aroclor-1242 (PCB-1242)	ug/kg	250 U	20 U	-	-	-	23 U
Aroclor-1254 (PCB-1254)	ug/kg	**11000**	**100**	-	-	-	**380**
Aroclor-1260 (PCB-1260)	ug/kg	290 U	23 U	-	-	-	20 U
Pesticides							
4,4'-DDD	ug/kg	39 U	16 U	-	-	-	40 U
4,4'-DDE	ug/kg	**280**	16 U	-	-	-	14 U
4,4'-DDT	ug/kg	**760**	12 U	-	-	-	17 U
Endrin aldehyde	ug/kg	35 U	14 U	-	-	-	22 U
Endrin ketone	ug/kg	23 U	9.4 U	-	-	-	13 U
Heptachlor epoxide	ug/kg	**75 NJ**	15 U	-	-	-	29 U
Methoxychlor	ug/kg	170 U	69 U	-	-	-	14 U
Dioxin/Furans							
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	**13**
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	**160**
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	**12**
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	**23**
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	**0.85 J**
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	**4.2 J**
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	**0.43 J**
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	**1.7 J**
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	**3.0 J**
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	**2.2 J**
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	**1.1 J**
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	**0.52 J**
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	**1.5 J**
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	**2.5 J**
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	**3.8**
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	**0.21 J**
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	**27 J**
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	**46 J**
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	**28 J**
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	**22 J**
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	**33 J**
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	**110 J**
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	**37 J**
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	**3.4 J**
Asbestos							
Chrysotile asbestos	%	-	-	-	0.25 <	-	-

Table 10

Summary of Detections
Soil/Fill Samples - EU13
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-60**	**SS-61**	**SS-94**	**SS-168-AS**	**TT-40**	**TT-40**
Sample ID:		**SS-38443-103018-JC-060**	**SS-38443-103018-JC-061**	**SS-38443-103018-JC-094**	**SS-38443-103018-JC-168**	**TT-40**	**S-38443-110317-BW-022**
Sample Date:		**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**11/3/2017**	**11/3/2017**
Sample Depth:		**0.17-2.17 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-0.5 ft BGS**	**2-4 ft BGS**	**6-8 ft BGS**
Parameters	**Units**						
General Chemistry							
Cyanide (total)	mg/kg	**4.1**	**0.38 J**	-	-	-	**0.53 J**

Notes
< - Less than reported value.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 11

Summary of Detections
Soil/Fill Samples - EU14
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:							**BH62-13**	**BH63-13**	**BH64-13**	**BH65-13**
Sample ID:							**S-38443-061913-JT-008**	**S-38443-062013-JC-020**	**S-38443-061913-JC-016**	**S-38443-062013-JC-031**
Sample Date:							**6/19/2013**	**6/20/2013**	**6/19/2013**	**6/20/2013**
Sample Depth:							**21.5-23.5 ft BGS**	**23-25 ft BGS**	**22-24 ft BGS**	**22.1-24.1 ft BGS**
Parameters	**Units**	**Samples**	**Detects**	**Min Detect**	**Max Detect**	**Average (Detects)**				
Volatiles										
1,1-Dichloroethane	ug/kg	25	9	1.1	240	52.533	5.0 U	4.7 U	4.1 U	**1.1 J**
1,1-Dichloroethene	ug/kg	25	2	0.89	4.6	2.745	5.0 U	4.7 U	4.1 U	5.1 U
1,2-Dichlorobenzene	ug/kg	23	1	1.1	1.1	1.100	5.0 U	4.7 U	4.1 U	5.1 U
1,2-Dichloroethane	ug/kg	25	1	4.3	4.3	4.300	5.0 U	4.7 U	4.1 U	5.1 U
1,4-Dichlorobenzene	ug/kg	23	2	1.7	100	50.850	5.0 U	4.7 U	4.1 U	5.1 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	26	9	1.9	540	103.978	**1.9 J**	**5.1 J**	16 U	20 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	25	3	1.5	1000	620.500	20 U	19 U	16 U	20 U
Acetone	ug/kg	25	3	14	510	195.333	21 U	33 U	16 U	20 U
Benzene	ug/kg	25	9	0.22	310	70.148	5.0 U	**0.22 J**	4.1 U	**0.38 J**
Carbon disulfide	ug/kg	25	3	0.83	110	37.843	5.0 U	4.7 U	4.1 U	5.1 U
Chlorobenzene	ug/kg	25	7	0.39	4000	1260.466	**0.39 J**	**2.0 J**	4.1 U	5.1 U
Chloroethane	ug/kg	25	1	4.3	4.3	4.300	5.0 U	4.7 UJ	4.1 U	5.1 UJ
cis-1,2-Dichloroethene	ug/kg	25	15	0.39	890	164.001	**0.64 J**	4.7 U	4.1 U	5.1 U
Cyclohexane	ug/kg	25	3	0.38	160	53.707	10 U	9.5 U	8.1 U	**0.38 J**
Ethylbenzene	ug/kg	25	9	0.35	66000	10200.188	**0.35 J**	4.7 U	4.1 U	**0.47 J**
Isopropyl benzene	ug/kg	25	4	110	2800	1410.000	5.0 U	4.7 U	4.1 U	5.1 U
Methyl acetate	ug/kg	25	3	150	1300	546.667	10 U	9.5 U	8.1 U	10 U
Methyl cyclohexane	ug/kg	25	12	0.29	1100	242.219	10 U	**0.33 J**	8.1 U	**0.67 J**
Methyl tert butyl ether (MTBE)	ug/kg	25	1	0.62	0.62	0.620	5.0 U	4.7 U	4.1 U	5.1 U
Methylene chloride	ug/kg	25	4	4.4	260	70.100	8.1 U	**4.4 J**	5.9 U	**5.0 J**
Tetrachloroethene	ug/kg	26	6	0.34	67	12.557	5.0 U	4.7 U	4.1 U	5.1 U
Toluene	ug/kg	25	17	0.39	5300	680.276	**0.94 J**	**0.56 J**	**0.40 J**	**1.3 J**
trans-1,2-Dichloroethene	ug/kg	25	3	2.2	24	15.400	5.0 U	4.7 U	4.1 U	5.1 U
Trichloroethene	ug/kg	26	20	1.4	6400	524.760	5.0 U	4.7 U	**1.4 J**	5.1 U
Vinyl chloride	ug/kg	25	7	1.6	410	130.014	5.0 U	4.7 U	4.1 U	5.1 U
Xylenes (total)	ug/kg	25	11	0.71	140000	17681.936	10 U	9.5 U	8.1 U	10 U
Semi-Volatiles										
2-Methylnaphthalene	ug/kg	15	10	52	5400	753.700	-	-	-	-
3&4-Methylphenol	ug/kg	9	1	210	210	210.000	-	-	-	-
Acenaphthene	ug/kg	15	6	14	72	34.500	-	-	-	-
Acenaphthylene	ug/kg	15	7	14	310	72.714	-	-	-	-
Acetophenone	ug/kg	15	2	38	48	43.000	-	-	-	-
Anthracene	ug/kg	15	7	36	250	129.286	-	-	-	-
Benzaldehyde	ug/kg	15	1	140	140	140.000	-	-	-	-
Benzo(a)anthracene	ug/kg	15	9	59	1700	506.556	-	-	-	-
Benzo(a)pyrene	ug/kg	15	10	39	2000	495.600	-	-	-	-
Benzo(b)fluoranthene	ug/kg	15	10	61	3000	733.900	-	-	-	-
Benzo(g,h,i)perylene	ug/kg	15	10	46	1900	466.500	-	-	-	-
Benzo(k)fluoranthene	ug/kg	15	7	88	1200	392.571	-	-	-	-
Biphenyl (1,1-Biphenyl)	ug/kg	15	3	14	97	46.667	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	15	8	74	3000	793.000	-	-	-	-
Butyl benzylphthalate (BBP)	ug/kg	15	2	200	250	225.000	-	-	-	-
Carbazole	ug/kg	15	4	60	120	81.750	-	-	-	-

Table 11

Summary of Detections
Soil/Fill Samples - EU14
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:							**BH62-13**	**BH63-13**	**BH64-13**	**BH65-13**
Sample ID:							**S-38443-061913-JT-008**	**S-38443-062013-JC-020**	**S-38443-061913-JC-016**	**S-38443-062013-JC-031**
Sample Date:							**6/19/2013**	**6/20/2013**	**6/19/2013**	**6/20/2013**
Sample Depth:							**21.5-23.5 ft BGS**	**23-25 ft BGS**	**22-24 ft BGS**	**22.1-24.1 ft BGS**
Parameters	**Units**	**Samples**	**Detects**	**Min Detect**	**Max Detect**	**Average (Detects)**				
Chrysene	ug/kg	15	10	94	2000	540.400	-	-	-	-
Dibenz(a,h)anthracene	ug/kg	15	5	37	510	213.600	-	-	-	-
Dibenzofuran	ug/kg	15	6	32	120	73.333	-	-	-	-
Di-n-butylphthalate (DBP)	ug/kg	15	3	45	2600	905.333	-	-	-	-
Fluoranthene	ug/kg	15	11	110	2000	781.818	-	-	-	-
Fluorene	ug/kg	15	6	17	67	42.333	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/kg	15	9	18	1700	437.556	-	-	-	-
Naphthalene	ug/kg	15	10	28	3900	607.800	-	-	-	-
Phenanthrene	ug/kg	15	12	45	1100	410.417	-	-	-	-
Phenol	ug/kg	15	3	37	87	58.000	-	-	-	-
Pyrene	ug/kg	15	11	110	2000	698.182	-	-	-	-
Metals										
Aluminum	mg/kg	15	15	2100	9200	6139.333	-	-	-	-
Antimony	mg/kg	15	14	1.2	13	4.779	-	-	-	-
Arsenic	mg/kg	15	15	1.5	35	16.453	-	-	-	-
Barium	mg/kg	15	15	10.1	3100	735.673	-	-	-	-
Beryllium	mg/kg	15	14	0.19	3.3	1.574	-	-	-	-
Cadmium	mg/kg	15	15	0.15	13	4.441	-	-	-	-
Calcium	mg/kg	15	15	1670	140000	61404.667	-	-	-	-
Chromium	mg/kg	15	15	5.2	200	58.000	-	-	-	-
Chromium III (trivalent)	mg/kg	9	9	5.1	200	72.789	-	-	-	-
Chromium VI (hexavalent)	mg/kg	9	5	0.55	1.2	0.862	-	-	-	-
Cobalt	mg/kg	15	15	2.3	17	9.040	-	-	-	-
Copper	mg/kg	15	15	7.2	2400	619.913	-	-	-	-
Iron	mg/kg	15	15	5820	71000	31674.667	-	-	-	-
Lead	mg/kg	15	15	4.6	4200	869.440	-	-	-	-
Lead - coarse fraction	mg/kg	2	2	3600	47000	25300.000	-	-	-	-
Lead - fine fraction	mg/kg	2	2	3600	28000	15800.000	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	2	2	3600	43000	23300.000	-	-	-	-
Magnesium	mg/kg	15	15	652	63000	21393.467	-	-	-	-
Manganese	mg/kg	15	15	88.1	880	345.807	-	-	-	-
Mercury	mg/kg	15	13	0.12	0.62	0.302	-	-	-	-
Nickel	mg/kg	15	15	6.8	110	42.307	-	-	-	-
Potassium	mg/kg	15	15	313	1300	726.867	-	-	-	-
Selenium	mg/kg	15	13	0.32	7.2	2.972	-	-	-	-
Silver	mg/kg	15	10	0.072	6.5	1.605	-	-	-	-
Sodium	mg/kg	15	14	106	596	279.786	-	-	-	-
Thallium	mg/kg	15	12	0.11	0.98	0.367	-	-	-	-
Vanadium	mg/kg	15	15	8.4	46	26.000	-	-	-	-
Zinc	mg/kg	15	15	23.2	3000	970.960	-	-	-	-
PCBs										
Aroclor-1242 (PCB-1242)	ug/kg	19	2	370	490	430.000	35 U	-	-	35 U
Aroclor-1248 (PCB-1248)	ug/kg	19	1	430	430	430.000	35 U	-	-	35 U

Table 11

Summary of Detections
Soil/Fill Samples - EU14
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:							**BH62-13**	**BH63-13**	**BH64-13**	**BH65-13**
Sample ID:							**S-38443-061913-JT-008**	**S-38443-062013-JC-020**	**S-38443-061913-JC-016**	**S-38443-062013-JC-031**
Sample Date:							**6/19/2013**	**6/20/2013**	**6/19/2013**	**6/20/2013**
Sample Depth:							**21.5-23.5 ft BGS**	**23-25 ft BGS**	**22-24 ft BGS**	**22.1-24.1 ft BGS**
Parameters	**Units**	**Samples**	**Detects**	**Min Detect**	**Max Detect**	**Average (Detects)**				
Aroclor-1254 (PCB-1254)	ug/kg	19	8	54	3700	799.125	35 U	-	-	35 U
Aroclor-1260 (PCB-1260)	ug/kg	19	4	250	14000	3782.500	35 U	-	-	35 U
Pesticides										
4,4'-DDD	ug/kg	15	1	9.5	9.5	9.500	-	-	-	-
4,4'-DDE	ug/kg	15	6	9.4	220	69.183	-	-	-	-
4,4'-DDT	ug/kg	15	4	21	74	51.750	-	-	-	-
Dieldrin	ug/kg	15	2	12	270	141.000	-	-	-	-
Endrin aldehyde	ug/kg	15	1	28	28	28.000	-	-	-	-
Endrin ketone	ug/kg	15	3	19	96	47.667	-	-	-	-
gamma-Chlordane	ug/kg	15	3	2.6	180	69.867	-	-	-	-
Heptachlor epoxide	ug/kg	15	1	27	27	27.000	-	-	-	-
Dioxin/Furans										
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	1	1	25	25	25.000	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	1	1	380	380	380.000	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	1	1	48	48	48.000	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	1	1	52	52	52.000	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	1	1	3	3	3.000	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	1	1	11	11	11.000	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	1	1	1.7	1.7	1.700	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	1	1	7.9	7.9	7.900	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	1	1	6.9	6.9	6.900	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	1	1	5.6	5.6	5.600	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	1	1	2.8	2.8	2.800	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	1	1	2.1	2.1	2.100	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	1	1	6	6	6.000	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	1	1	5.1	5.1	5.100	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	1	1	17	17	17.000	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	1	1	82	82	82.000	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	1	1	98	98	98.000	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	1	1	110	110	110.000	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	1	1	59	59	59.000	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	1	1	180	180	180.000	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	1	1	24	24	24.000	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	1	1	270	270	270.000	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	1	1	24	24	24.000	-	-	-	-
Geotechnical										
Coarse sand	%	2	2	8	9.4	8.700	-	-	-	-
Fine sand	%	2	2	4.3	9.4	6.850	-	-	-	-
Fines	%	2	2	6.4	11.8	9.100	-	-	-	-
Gravel	%	2	2	50.4	69.6	60.000	-	-	-	-
Medium sand	%	2	2	11.7	19	15.350	-	-	-	-
Sand	%	2	2	24	37.8	30.900	-	-	-	-

Table 11

Summary of Detections
Soil/Fill Samples - EU14
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:							**BH62-13**	**BH63-13**	**BH64-13**	**BH65-13**
Sample ID:							**S-38443-061913-JT-008**	**S-38443-062013-JC-020**	**S-38443-061913-JC-016**	**S-38443-062013-JC-031**
Sample Date:							**6/19/2013**	**6/20/2013**	**6/19/2013**	**6/20/2013**
Sample Depth:							**21.5-23.5 ft BGS**	**23-25 ft BGS**	**22-24 ft BGS**	**22.1-24.1 ft BGS**
Parameters	**Units**	**Samples**	**Detects**	**Min Detect**	**Max Detect**	**Average (Detects)**				
Sieve, #4	% passed	2	2	30.4	49.6	40.000	-	-	-	-
Sieve, #10	% passed	2	2	22.4	40.2	31.300	-	-	-	-
Sieve, #20	% passed	2	2	16	31.5	23.750	-	-	-	-
Sieve, #40	% passed	2	2	10.7	21.2	15.950	-	-	-	-
Sieve, #60	% passed	2	2	8.6	15.9	12.250	-	-	-	-
Sieve, #80	% passed	2	2	7.9	14.3	11.100	-	-	-	-
Sieve, #100	% passed	2	2	7.5	13.6	10.550	-	-	-	-
Sieve, #200	% passed	2	2	6.4	11.8	9.100	-	-	-	-
Sieve, 0.375 inch	% passed	2	2	38.7	61.3	50.000	-	-	-	-
Sieve, 0.75 inch	% passed	2	2	52.5	69.6	61.050	-	-	-	-
Sieve, 1 inch	% passed	2	2	60.8	74.2	67.500	-	-	-	-
Sieve, 1.5 inch	% passed	2	2	100	100	100.000	-	-	-	-
Sieve, 2 inch	% passed	2	2	100	100	100.000	-	-	-	-
Sieve, 3 inch	% passed	2	2	100	100	100.000	-	-	-	-
General Chemistry										
Cyanide (total)	mg/kg	15	8	0.27	13	2.615	-	-	-	-
Fraction organic carbon (FOC)	%	2	2	0.3	0.3	0.300	-	-	-	-
Total solids	%	6	6	52.4	96.4	78.633	-	-	-	-

Notes
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 11

Summary of Detections
Soil/Fill Samples - EU14
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH68-13**	**BH68-13**	**BH69-13**	**BH69-13**	**BH70-13**	**BH105-18**	**BH106-18**
Sample ID:		**S-38443-061913-JC-017**	**S-38443-061913-JC-018**	**S-38443-062113-JC-035**	**S-38443-062113-JC-036**	**S-38443-062113-JC-034**	**S-38443-011718-JC-047**	**S-38443-011718-JC-048**
Sample Date:		**6/19/2013**	**6/19/2013**	**6/21/2013**	**6/21/2013**	**6/21/2013**	**1/17/2018**	**1/17/2018**
Sample Depth:		**0.5-2.5 ft BGS**	**21.5-23.5 ft BGS**	**21-23 ft BGS**	**21-23 ft BGS**	**19-20 ft BGS**	**8.5-10.5 ft BGS**	**13-15 ft BGS**
					Duplicate			
Parameters	**Units**							
Volatiles								
1,1-Dichloroethane	ug/kg	270 U	4.3 U	4.7 U	4.4 U	5.3 U	0.44 U	30 U
1,1-Dichloroethene	ug/kg	270 U	4.3 U	4.7 U	4.4 U	5.3 U	0.72 U	35 U
1,2-Dichlorobenzene	ug/kg	270 U	**1.1 J**	4.7 U	4.4 U	5.3 U	0.29 U	18 U
1,2-Dichloroethane	ug/kg	270 U	4.3 U	4.7 U	4.4 U	5.3 U	0.38 U	29 U
1,4-Dichlorobenzene	ug/kg	270 U	**1.7 J**	4.7 U	4.4 U	5.3 U	0.46 U	26 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	1100 U	17 U	19 U	18 U	21 U	1.7 U	49 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	1100 U	**1.5 J**	19 U	18 U	21 U	1.2 U	39 U
Acetone	ug/kg	1100 U	21 U	19 U	18 U	21 U	4.1 U	95 U
Benzene	ug/kg	270 U	4.3 U	4.7 U	4.4 U	5.3 U	0.42 U	23 U
Carbon disulfide	ug/kg	270 U	4.3 U	4.7 U	4.4 U	5.3 U	0.28 U	18 U
Chlorobenzene	ug/kg	270 U	**0.87 J**	4.7 U	4.4 U	5.3 U	0.44 U	29 U
Chloroethane	ug/kg	270 U	4.3 UJ	4.7 U	4.4 U	5.3 U	0.50 U	27 U
cis-1,2-Dichloroethene	ug/kg	270 U	4.3 U	**6.7**	**2.2 J**	**0.39 J**	**0.95 J**	34 U
Cyclohexane	ug/kg	540 U	8.6 U	9.4 U	8.8 U	11 U	0.28 U	29 U
Ethylbenzene	ug/kg	270 U	4.3 U	4.7 U	4.4 U	5.3 U	0.36 U	34 U
Isopropyl benzene	ug/kg	270 U	4.3 U	4.7 U	4.4 U	5.3 U	0.26 U	33 U
Methyl acetate	ug/kg	**150 J**	8.6 U	9.4 U	8.8 U	11 U	1.5 U	73 U
Methyl cyclohexane	ug/kg	**37 J**	8.6 U	9.4 U	8.8 U	11 U	0.30 U	36 U
Methyl tert butyl ether (MTBE)	ug/kg	270 U	4.3 U	4.7 U	4.4 U	5.3 U	0.36 U	25 U
Methylene chloride	ug/kg	270 U	**11 J**	4.9 UJ	7.6 UJ	5.3 UJ	0.86 U	64 U
Tetrachloroethene	ug/kg	270 U	4.3 U	**3.9 J**	**1.2 J**	**1.2 J**	0.49 U	21 U
Toluene	ug/kg	**24 J**	**0.39 J**	**0.46 J**	4.4 U	**0.53 J**	0.45 U	23 U
trans-1,2-Dichloroethene	ug/kg	270 U	4.3 U	4.7 U	4.4 U	5.3 U	0.50 U	34 U
Trichloroethene	ug/kg	**180 J**	4.3 U	**25**	**9.0**	**110**	**6.3 J**	36 U
Vinyl chloride	ug/kg	270 U	4.3 U	4.7 U	4.4 U	5.3 U	0.37 U	17 U
Xylenes (total)	ug/kg	**110 J**	8.6 U	9.4 U	8.8 U	11 U	0.53 U	27 U
Semi-Volatiles								
2-Methylnaphthalene	ug/kg	-	-	-	-	-	**93**	5.4 U
3&4-Methylphenol	ug/kg	-	-	-	-	-	32 U	220 U
Acenaphthene	ug/kg	-	-	-	-	-	**14**	8.3 U
Acenaphthylene	ug/kg	-	-	-	-	-	**17**	3.8 U
Acetophenone	ug/kg	-	-	-	-	-	15 U	100 U
Anthracene	ug/kg	-	-	-	-	-	**43**	8.5 U
Benzaldehyde	ug/kg	-	-	-	-	-	19 U	130 U
Benzo(a)anthracene	ug/kg	-	-	-	-	-	**150**	6.9 U
Benzo(a)pyrene	ug/kg	-	-	-	-	-	**180**	7.0 U
Benzo(b)fluoranthene	ug/kg	-	-	-	-	-	**250**	6.4 U
Benzo(g,h,i)perylene	ug/kg	-	-	-	-	-	**190**	3.8 U
Benzo(k)fluoranthene	ug/kg	-	-	-	-	-	**88**	7.4 U
Biphenyl (1,1-Biphenyl)	ug/kg	-	-	-	-	-	**14 J**	38 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	-	-	-	-	-	**170**	210 U
Butyl benzylphthalate (BBP)	ug/kg	-	-	-	-	-	16 U	110 U
Carbazole	ug/kg	-	-	-	-	-	43 U	290 U

Table 11

Summary of Detections
Soil/Fill Samples - EU14
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH68-13**	**BH68-13**	**BH69-13**	**BH69-13**	**BH70-13**	**BH105-18**	**BH106-18**
Sample ID:		**S-38443-061913-JC-017**	**S-38443-061913-JC-018**	**S-38443-062113-JC-035**	**S-38443-062113-JC-036**	**S-38443-062113-JC-034**	**S-38443-011718-JC-047**	**S-38443-011718-JC-048**
Sample Date:		**6/19/2013**	**6/19/2013**	**6/21/2013**	**6/21/2013**	**6/21/2013**	**1/17/2018**	**1/17/2018**
Sample Depth:		**0.5-2.5 ft BGS**	**21.5-23.5 ft BGS**	**21-23 ft BGS**	**21-23 ft BGS**	**19-20 ft BGS**	**8.5-10.5 ft BGS**	**13-15 ft BGS**
					Duplicate			
Parameters	**Units**							
Chrysene	ug/kg	-	-	-	-	-	**160**	12 U
Dibenz(a,h)anthracene	ug/kg	-	-	-	-	-	**37**	7.2 U
Dibenzofuran	ug/kg	-	-	-	-	-	**32 J**	7.2 U
Di-n-butylphthalate (DBP)	ug/kg	-	-	-	-	-	24 U	160 U
Fluoranthene	ug/kg	-	-	-	-	-	**220**	6.0 U
Fluorene	ug/kg	-	-	-	-	-	**17**	5.8 U
Indeno(1,2,3-cd)pyrene	ug/kg	-	-	-	-	-	**140**	3.8 U
Naphthalene	ug/kg	-	-	-	-	-	**61**	8.9 U
Phenanthrene	ug/kg	-	-	-	-	-	**170**	**45 J**
Phenol	ug/kg	-	-	-	-	-	12 U	80 U
Pyrene	ug/kg	-	-	-	-	-	**210**	4.8 U
Metals								
Aluminum	mg/kg	-	-	-	-	-	**8800**	**2200**
Antimony	mg/kg	-	-	-	-	-	**1.8 J**	**1.3 J**
Arsenic	mg/kg	-	-	-	-	-	**25**	**1.5**
Barium	mg/kg	-	-	-	-	-	**260**	**17**
Beryllium	mg/kg	-	-	-	-	-	**3.3**	**0.19**
Cadmium	mg/kg	-	-	-	-	-	**13**	**0.15 J**
Calcium	mg/kg	-	-	-	-	-	**59000**	**140000**
Chromium	mg/kg	-	-	-	-	-	**84**	**6.1**
Chromium III (trivalent)	mg/kg	-	-	-	-	-	**84**	**5.1**
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	1.9 U	**0.97**
Cobalt	mg/kg	-	-	-	-	-	**10**	**2.7**
Copper	mg/kg	-	-	-	-	-	**120**	**7.2**
Iron	mg/kg	-	-	-	-	-	**21000**	**6400**
Lead	mg/kg	-	-	-	-	-	**110**	**11**
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-
Magnesium	mg/kg	-	-	-	-	-	**22000**	**63000**
Manganese	mg/kg	-	-	-	-	-	**300**	**320**
Mercury	mg/kg	-	-	-	-	-	**0.35 J**	0.022 U
Nickel	mg/kg	-	-	-	-	-	**38**	**7.4**
Potassium	mg/kg	-	-	-	-	-	**1100**	**350**
Selenium	mg/kg	-	-	-	-	-	**5.6**	**0.32 J**
Silver	mg/kg	-	-	-	-	-	**0.30 J**	0.020 U
Sodium	mg/kg	-	-	-	-	-	**320**	160 U
Thallium	mg/kg	-	-	-	-	-	**0.80**	**0.11 J**
Vanadium	mg/kg	-	-	-	-	-	**41**	**8.4**
Zinc	mg/kg	-	-	-	-	-	**1200**	**29**
PCBs								
Aroclor-1242 (PCB-1242)	ug/kg	-	-	35 U	36 U	-	30 U	20 U
Aroclor-1248 (PCB-1248)	ug/kg	-	-	35 U	36 U	-	38 U	26 U

Table 11

Summary of Detections
Soil/Fill Samples - EU14
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH68-13**	**BH68-13**	**BH69-13**	**BH69-13**	**BH70-13**	**BH105-18**	**BH106-18**
Sample ID:		**S-38443-061913-JC-017**	**S-38443-061913-JC-018**	**S-38443-062113-JC-035**	**S-38443-062113-JC-036**	**S-38443-062113-JC-034**	**S-38443-011718-JC-047**	**S-38443-011718-JC-048**
Sample Date:		**6/19/2013**	**6/19/2013**	**6/21/2013**	**6/21/2013**	**6/21/2013**	**1/17/2018**	**1/17/2018**
Sample Depth:		**0.5-2.5 ft BGS**	**21.5-23.5 ft BGS**	**21-23 ft BGS**	**21-23 ft BGS**	**19-20 ft BGS**	**8.5-10.5 ft BGS**	**13-15 ft BGS**
					Duplicate			
Parameters	**Units**							
Aroclor-1254 (PCB-1254)	ug/kg	-	-	35 U	36 U	-	37 U	25 U
Aroclor-1260 (PCB-1260)	ug/kg	-	-	35 U	36 U	-	35 U	24 U
Pesticides								
4,4'-DDD	ug/kg	-	-	-	-	-	5.3 U	3.6 U
4,4'-DDE	ug/kg	-	-	-	-	-	1.9 U	1.3 U
4,4'-DDT	ug/kg	-	-	-	-	-	2.2 U	1.5 U
Dieldrin	ug/kg	-	-	-	-	-	1.4 U	0.97 U
Endrin aldehyde	ug/kg	-	-	-	-	-	2.9 U	190 U
Endrin ketone	ug/kg	-	-	-	-	-	1.8 U	1.2 U
gamma-Chlordane	ug/kg	-	-	-	-	-	2.4 U	**2.6 NJ**
Heptachlor epoxide	ug/kg	-	-	-	-	-	3.8 U	2.6 U
Dioxin/Furans								
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	**25**	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	**380**	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	**48**	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	**52**	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	**3.0 J**	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	**11 J**	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	**1.7 J**	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	**7.9 J**	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	**6.9 J**	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	**5.6 J**	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	**2.8 J**	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	**2.1 J**	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	**6.0 J**	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	**5.1 J**	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	**17**	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	**82 J**	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	**98 J**	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	**110 J**	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	**59 J**	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	**180 J**	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	**24 J**	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	**270 J**	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	**24 J**	-
Geotechnical								
Coarse sand	%	-	-	-	-	-	-	-
Fine sand	%	-	-	-	-	-	-	-
Fines	%	-	-	-	-	-	-	-
Gravel	%	-	-	-	-	-	-	-
Medium sand	%	-	-	-	-	-	-	-
Sand	%	-	-	-	-	-	-	-

Table 11

Summary of Detections
Soil/Fill Samples - EU14
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH68-13**	**BH68-13**	**BH69-13**	**BH69-13**	**BH70-13**	**BH105-18**	**BH106-18**
Sample ID:		**S-38443-061913-JC-017**	**S-38443-061913-JC-018**	**S-38443-062113-JC-035**	**S-38443-062113-JC-036**	**S-38443-062113-JC-034**	**S-38443-011718-JC-047**	**S-38443-011718-JC-048**
Sample Date:		**6/19/2013**	**6/19/2013**	**6/21/2013**	**6/21/2013**	**6/21/2013**	**1/17/2018**	**1/17/2018**
Sample Depth:		**0.5-2.5 ft BGS**	**21.5-23.5 ft BGS**	**21-23 ft BGS**	**21-23 ft BGS**	**19-20 ft BGS**	**8.5-10.5 ft BGS**	**13-15 ft BGS**
					Duplicate			
Parameters	**Units**							
Sieve, #4	% passed	-	-	-	-	-	-	-
Sieve, #10	% passed	-	-	-	-	-	-	-
Sieve, #20	% passed	-	-	-	-	-	-	-
Sieve, #40	% passed	-	-	-	-	-	-	-
Sieve, #60	% passed	-	-	-	-	-	-	-
Sieve, #80	% passed	-	-	-	-	-	-	-
Sieve, #100	% passed	-	-	-	-	-	-	-
Sieve, #200	% passed	-	-	-	-	-	-	-
Sieve, 0.375 inch	% passed	-	-	-	-	-	-	-
Sieve, 0.75 inch	% passed	-	-	-	-	-	-	-
Sieve, 1 inch	% passed	-	-	-	-	-	-	-
Sieve, 1.5 inch	% passed	-	-	-	-	-	-	-
Sieve, 2 inch	% passed	-	-	-	-	-	-	-
Sieve, 3 inch	% passed	-	-	-	-	-	-	-
General Chemistry								
Cyanide (total)	mg/kg	-	-	-	-	-	**0.31 J**	0.055 U
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-

Notes
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 11

Summary of Detections
Soil/Fill Samples - EU14
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**GP30-18**	**GP31-18**	**SS-46**	**SS-47**	**SS-48**	**SS-49**	**SS-50**
Sample ID:		**S-38443-011718-JC-049**	**S-38443-011918-JC-056**	**SS-38443-103018-JC-046**	**SS-38443-110218-JC-047**	**SS-38443-102918-JC-048**	**SS-38443-102918-JC-049**	**SS-38443-102918-JC-050**
Sample Date:		**1/17/2018**	**1/19/2018**	**10/30/2018**	**11/2/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**
Sample Depth:		**10.5-11.5 ft bgs**	**8-9 ft bgs**	**0-2 ft BGS**	**0-2 ft BGS**	**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0.17-2.17 ft BGS**
Parameters	**Units**							
Volatiles								
1,1-Dichloroethane	ug/kg	0.29 U	0.32 U	0.91 U	**31 J**	15 U	**110 J**	**2.6 J**
1,1-Dichloroethene	ug/kg	0.48 U	0.52 U	1.2 U	18 U	25 U	40 U	1.7 U
1,2-Dichlorobenzene	ug/kg	0.20 U	0.21 U	R	26 U	34 U	56 U	R
1,2-Dichloroethane	ug/kg	0.26 U	0.28 U	1.0 U	15 U	20 U	32 U	**4.3 J**
1,4-Dichlorobenzene	ug/kg	0.31 U	0.34 U	R	21 U	28 U	45 U	R
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	1.1 U	1.2 U	4.7 U	190 U	260 U	**540 J**	**26 J**
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	0.79 U	0.85 U	4.9 U	290 U	390 U	630 U	7.1 U
Acetone	ug/kg	2.7 U	8.3 U	28 U	**510 J**	400 U	650 U	40 U
Benzene	ug/kg	**0.43 J**	0.31 U	0.92 U	**37 J**	13 U	**310 J**	1.3 U
Carbon disulfide	ug/kg	0.19 U	0.20 U	1.5 U	130 U	180 U	290 U	2.2 U
Chlorobenzene	ug/kg	0.29 U	0.32 U	1.2 U	**2100**	57 U	93 U	1.7 U
Chloroethane	ug/kg	0.34 U	0.36 U	1.6 U	180 U	250 U	400 U	2.3 U
cis-1,2-Dichloroethene	ug/kg	0.25 U	0.27 U	1.4 U	**320**	**64 J**	24 U	**49**
Cyclohexane	ug/kg	0.19 U	0.20 U	1.8 U	200 U	270 U	430 U	2.6 U
Ethylbenzene	ug/kg	**0.52 J**	**0.35 J**	1.4 U	**1200**	20 U	**2600**	2.0 U
Isopropyl benzene	ug/kg	0.18 U	0.19 U	1.1 U	46 U	62 U	**230 J**	1.6 U
Methyl acetate	ug/kg	1.0 U	1.1 U	4.5 U	640 U	860 U	1400 U	6.5 U
Methyl cyclohexane	ug/kg	0.20 U	**0.29 J**	1.6 U	**150 J**	110 U	**790 J**	2.3 U
Methyl tert butyl ether (MTBE)	ug/kg	0.24 U	0.26 U	1.1 U	45 U	61 U	98 U	1.6 U
Methylene chloride	ug/kg	0.57 U	5.0 U	16 U	470 U	630 U	1000 U	23 U
Tetrachloroethene	ug/kg	**0.34 J**	0.35 U	0.96 U	**67 J**	25 U	40 U	1.4 U
Toluene	ug/kg	**1.5 J**	**0.77 J**	1.0 U	**390**	74 U	**4400**	1.5 U
trans-1,2-Dichloroethene	ug/kg	0.34 U	0.36 U	0.61 U	**24 J**	25 U	40 U	**2.2 J**
Trichloroethene	ug/kg	**2.7 J**	**5.6**	**3.4 J**	**35 J**	**6400**	**50 J**	**5.2 J**
Vinyl chloride	ug/kg	0.25 U	0.27 U	1.1 U	**39 J**	16 U	**410 J**	**1.6 J**
Xylenes (total)	ug/kg	**0.71 J**	**0.79 J**	2.1 U	**890**	38 U	**9400**	3.0 U
Semi-Volatiles								
2-Methylnaphthalene	ug/kg	-	-	**69 J**	**52**	**220**	**720**	**260**
3&4-Methylphenol	ug/kg	-	-	200 U	83 U	36 U	**210 J**	160 U
Acenaphthene	ug/kg	-	-	19 U	**42 J**	**23**	**22 J**	16 U
Acenaphthylene	ug/kg	-	-	27 U	**16 J**	**310**	**14 J**	**79 J**
Acetophenone	ug/kg	-	-	74 U	31 U	**48 J**	17 U	61 U
Anthracene	ug/kg	-	-	16 U	**120**	**210**	**36**	**66 J**
Benzaldehyde	ug/kg	-	-	160 U	66 U	**140**	35 U	130 U
Benzo(a)anthracene	ug/kg	-	-	**110**	**330**	**1700**	**59**	**200**
Benzo(a)pyrene	ug/kg	-	-	**140**	**260**	**2000**	**39**	**260**
Benzo(b)fluoranthene	ug/kg	-	-	**360**	**370**	**3000**	**61**	**430**
Benzo(g,h,i)perylene	ug/kg	-	-	**130**	**150**	**1900**	**46**	**360**
Benzo(k)fluoranthene	ug/kg	-	-	47 U	**170**	**1200**	11 U	**160**
Biphenyl (1,1-Biphenyl)	ug/kg	-	-	110 U	49 U	**29 J**	**97**	94 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	-	-	340 U	150 U	**130**	78 U	**1900**
Butyl benzylphthalate (BBP)	ug/kg	-	-	150 U	63 U	28 U	34 U	**250 J**
Carbazole	ug/kg	-	-	130 U	**60 J**	**71**	29 U	110 U

Table 11

Summary of Detections
Soil/Fill Samples - EU14
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**GP30-18**	**GP31-18**	**SS-46**	**SS-47**	**SS-48**	**SS-49**	**SS-50**
Sample ID:		**S-38443-011718-JC-049**	**S-38443-011918-JC-056**	**SS-38443-103018-JC-046**	**SS-38443-110218-JC-047**	**SS-38443-102918-JC-048**	**SS-38443-102918-JC-049**	**SS-38443-102918-JC-050**
Sample Date:		**1/17/2018**	**1/19/2018**	**10/30/2018**	**11/2/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**
Sample Depth:		**10.5-11.5 ft bgs**	**8-9 ft bgs**	**0-2 ft BGS**	**0-2 ft BGS**	**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0.17-2.17 ft BGS**
Parameters	**Units**							
Chrysene	ug/kg	-	-	**200**	**350**	**2000**	**94**	**280**
Dibenz(a,h)anthracene	ug/kg	-	-	47 U	20 U	**510**	11 U	**91**
Dibenzofuran	ug/kg	-	-	88 U	**49 J**	**75**	**120**	72 U
Di-n-butylphthalate (DBP)	ug/kg	-	-	150 U	63 U	**71 J**	34 U	120 U
Fluoranthene	ug/kg	-	-	**140**	**730**	**1800**	**110**	**350**
Fluorene	ug/kg	-	-	18 U	**63**	**21**	**51**	15 U
Indeno(1,2,3-cd)pyrene	ug/kg	-	-	**120**	**150**	**1700**	**18 J**	**320**
Naphthalene	ug/kg	-	-	16 U	**64**	**190**	**620**	**150**
Phenanthrene	ug/kg	-	-	**130**	**530**	**550**	**380**	**250**
Phenol	ug/kg	-	-	**87 J**	23 U	**50 J**	12 U	44 U
Pyrene	ug/kg	-	-	**130**	**560**	**2000**	**110**	**310**
Metals								
Aluminum	mg/kg	-	-	**4300**	**5900**	**8200**	**6800**	**4000**
Antimony	mg/kg	-	-	**2.8 J**	**1.9 J**	**11**	**1.2**	**10**
Arsenic	mg/kg	-	-	**25**	**8.3**	**17**	**16**	**9.0**
Barium	mg/kg	-	-	**200**	**160**	**3100**	**260**	**240**
Beryllium	mg/kg	-	-	**0.99**	**0.68**	**2.3**	**3.3**	**0.45**
Cadmium	mg/kg	-	-	**3.7**	**0.80**	**11**	**0.63**	**5.9**
Calcium	mg/kg	-	-	**24000**	**91000**	**110000**	**2200**	**110000**
Chromium	mg/kg	-	-	**64**	**21**	**120**	**29**	**32**
Chromium III (trivalent)	mg/kg	-	-	**64**	**21**	**120**	**29**	**32**
Chromium VI (hexavalent)	mg/kg	-	-	0.33 U	0.28 U	**0.95 J**	**0.64 J**	1.3 U
Cobalt	mg/kg	-	-	**7.2**	**5.2**	**16**	**12**	**5.1**
Copper	mg/kg	-	-	**460**	**250**	**2400**	**62**	**1300**
Iron	mg/kg	-	-	**50000**	**16000**	**71000**	**60000**	**21000**
Lead	mg/kg	-	-	**340 J**	**510 J**	**4200**	**22**	**700**
Lead - coarse fraction	mg/kg	-	-	-	-	**3600**	-	**47000**
Lead - fine fraction	mg/kg	-	-	-	-	**3600**	-	**28000**
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	**3600**	-	**43000**
Magnesium	mg/kg	-	-	**7600**	**33000**	**13000**	**680**	**44000**
Manganese	mg/kg	-	-	**310**	**300 J**	**750**	**230**	**400**
Mercury	mg/kg	-	-	**0.19**	**0.22**	**0.28**	**0.48**	**0.32**
Nickel	mg/kg	-	-	**34**	**17**	**110**	**20**	**54**
Potassium	mg/kg	-	-	**360**	**800**	**810**	**1300**	**550**
Selenium	mg/kg	-	-	**0.87 J**	**0.73 J**	**1.6**	**5.6**	**4.4**
Silver	mg/kg	-	-	**0.57**	**0.28**	**2.0**	**0.072 J**	**0.63**
Sodium	mg/kg	-	-	**220 J**	**140 J**	**330**	**250 J**	**160 J**
Thallium	mg/kg	-	-	**0.22 J**	**0.24**	**0.23**	**0.49**	**0.11 J**
Vanadium	mg/kg	-	-	**19**	**18**	**28**	**46**	**13**
Zinc	mg/kg	-	-	**270 J**	**310**	**3000**	**58**	**470**
PCBs								
Aroclor-1242 (PCB-1242)	ug/kg	-	-	25 U	21 U	24 U	29 U	420 U
Aroclor-1248 (PCB-1248)	ug/kg	-	-	32 U	27 U	31 U	37 U	530 U

Table 11

Summary of Detections
Soil/Fill Samples - EU14
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**GP30-18**	**GP31-18**	**SS-46**	**SS-47**	**SS-48**	**SS-49**	**SS-50**
Sample ID:		**S-38443-011718-JC-049**	**S-38443-011918-JC-056**	**SS-38443-103018-JC-046**	**SS-38443-110218-JC-047**	**SS-38443-102918-JC-048**	**SS-38443-102918-JC-049**	**SS-38443-102918-JC-050**
Sample Date:		**1/17/2018**	**1/19/2018**	**10/30/2018**	**11/2/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**
Sample Depth:		**10.5-11.5 ft bgs**	**8-9 ft bgs**	**0-2 ft BGS**	**0-2 ft BGS**	**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0.17-2.17 ft BGS**
Parameters	**Units**							
Aroclor-1254 (PCB-1254)	ug/kg	-	-	**54 J**	**330**	**390**	35 U	510 U
Aroclor-1260 (PCB-1260)	ug/kg	-	-	29 U	24 U	28 U	**250 J**	**14000**
Pesticides								
4,4'-DDD	ug/kg	-	-	2.0 U	8.2 U	9.4 U	23 U	82 U
4,4'-DDE	ug/kg	-	-	2.0 U	8.4 U	**46**	23 U	83 U
4,4'-DDT	ug/kg	-	-	1.5 U	6.3 U	**51 J**	**61 J**	62 U
Dieldrin	ug/kg	-	-	1.5 U	6.1 U	7.0 U	17 U	61 U
Endrin aldehyde	ug/kg	-	-	1.7 U	7.3 U	8.3 U	20 U	72 U
Endrin ketone	ug/kg	-	-	1.2 U	4.9 U	5.7 U	14 U	49 U
gamma-Chlordane	ug/kg	-	-	1.6 U	6.8 U	7.8 U	19 U	68 U
Heptachlor epoxide	ug/kg	-	-	1.9 U	8.0 U	9.2 U	22 U	79 U
Dioxin/Furans								
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Geotechnical								
Coarse sand	%	**9.4**	**8.0**	-	-	-	-	-
Fine sand	%	**9.4**	**4.3**	-	-	-	-	-
Fines	%	**11.8**	**6.4**	-	-	-	-	-
Gravel	%	**50.4**	**69.6**	-	-	-	-	-
Medium sand	%	**19.0**	**11.7**	-	-	-	-	-
Sand	%	**37.8**	**24.0**	-	-	-	-	-

Table 11

Summary of Detections
Soil/Fill Samples - EU14
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**GP30-18**	**GP31-18**	**SS-46**	**SS-47**	**SS-48**	**SS-49**	**SS-50**
Sample ID:		**S-38443-011718-JC-049**	**S-38443-011918-JC-056**	**SS-38443-103018-JC-046**	**SS-38443-110218-JC-047**	**SS-38443-102918-JC-048**	**SS-38443-102918-JC-049**	**SS-38443-102918-JC-050**
Sample Date:		**1/17/2018**	**1/19/2018**	**10/30/2018**	**11/2/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**
Sample Depth:		**10.5-11.5 ft bgs**	**8-9 ft bgs**	**0-2 ft BGS**	**0-2 ft BGS**	**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0.17-2.17 ft BGS**
Parameters	**Units**							
Sieve, #4	% passed	**49.6**	**30.4**	-	-	-	-	-
Sieve, #10	% passed	**40.2**	**22.4**	-	-	-	-	-
Sieve, #20	% passed	**31.5**	**16.0**	-	-	-	-	-
Sieve, #40	% passed	**21.2**	**10.7**	-	-	-	-	-
Sieve, #60	% passed	**15.9**	**8.6**	-	-	-	-	-
Sieve, #80	% passed	**14.3**	**7.9**	-	-	-	-	-
Sieve, #100	% passed	**13.6**	**7.5**	-	-	-	-	-
Sieve, #200	% passed	**11.8**	**6.4**	-	-	-	-	-
Sieve, 0.375 inch	% passed	**61.3**	**38.7**	-	-	-	-	-
Sieve, 0.75 inch	% passed	**69.6**	**52.5**	-	-	-	-	-
Sieve, 1 inch	% passed	**74.2**	**60.8**	-	-	-	-	-
Sieve, 1.5 inch	% passed	**100.0**	**100.0**	-	-	-	-	-
Sieve, 2 inch	% passed	**100.0**	**100.0**	-	-	-	-	-
Sieve, 3 inch	% passed	**100.0**	**100.0**	-	-	-	-	-
General Chemistry								
Cyanide (total)	mg/kg	-	-	**0.78**	0.23 U	**2.7**	0.29 U	0.21 U
Fraction organic carbon (FOC)	%	**0.3**	**0.3**	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-

Notes
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 11

Summary of Detections
Soil/Fill Samples - EU14
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-51**	**SS-52**	**SS-53**	**SS-169-AS**	**SS-170-AS**	**TT-8**
Sample ID:		**SS-38443-102918-JC-051**	**SS-38443-102918-JC-052**	**SS-38443-102918-JC-053**	**SS-38443-103018-JC-169**	**SS-38443-102918-JC-170**	**S-38443-100608-KMV-050**
Sample Date:		**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/30/2018**	**10/29/2018**	**10/6/2008**
Sample Depth:		**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**4 ft BGS**
Parameters	**Units**						
Volatiles							
1,1-Dichloroethane	ug/kg	R	-	12 U	-	-	**5.0 J**
1,1-Dichloroethene	ug/kg	R	-	19 U	-	-	**0.89 J**
1,2-Dichlorobenzene	ug/kg	R	-	27 U	-	-	6.2 U
1,2-Dichloroethane	ug/kg	R	-	16 U	-	-	6.2 U
1,4-Dichlorobenzene	ug/kg	R	-	22 U	-	-	6.2 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	**18 J**	-	200 U	-	-	**12 J**
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	R	-	310 U	-	-	25 U
Acetone	ug/kg	R	-	320 U	-	-	**62**
Benzene	ug/kg	R	-	10 U	-	-	**1.3 J**
Carbon disulfide	ug/kg	R	-	140 U	-	-	**2.7 J**
Chlorobenzene	ug/kg	R	-	45 U	-	-	6.2 U
Chloroethane	ug/kg	R	-	190 U	-	-	6.2 U
cis-1,2-Dichloroethene	ug/kg	R	-	**180 J**	-	-	**4.5 J**
Cyclohexane	ug/kg	R	-	210 U	-	-	12 U
Ethylbenzene	ug/kg	R	-	22 U	-	-	6.2 U
Isopropyl benzene	ug/kg	R	-	49 U	-	-	6.2 U
Methyl acetate	ug/kg	R	-	680 U	-	-	12 U
Methyl cyclohexane	ug/kg	R	-	85 U	-	-	**5.5 J**
Methyl tert butyl ether (MTBE)	ug/kg	R	-	48 U	-	-	25 U
Methylene chloride	ug/kg	R	-	490 U	-	-	6.2 U
Tetrachloroethene	ug/kg	**1.7 J**	-	19 U	-	-	6.2 U
Toluene	ug/kg	R	-	120 U	-	-	**0.65 J**
trans-1,2-Dichloroethene	ug/kg	R	-	**20 J**	-	-	6.2 U
Trichloroethene	ug/kg	**9.6 J**	-	**2200**	-	-	**6.7**
Vinyl chloride	ug/kg	R	-	13 U	-	-	**5.5 J**
Xylenes (total)	ug/kg	R	-	**97 J**	-	-	**1.7 J**
Semi-Volatiles							
2-Methylnaphthalene	ug/kg	**180**	-	**73**	-	-	19 U
3&4-Methylphenol	ug/kg	70 U	-	87 U	-	-	-
Acenaphthene	ug/kg	**72**	-	**34 J**	-	-	19 U
Acenaphthylene	ug/kg	**49**	-	**24 J**	-	-	19 U
Acetophenone	ug/kg	27 U	-	**38 J**	-	-	290 U
Anthracene	ug/kg	**250**	-	**180**	-	-	19 U
Benzaldehyde	ug/kg	56 U	-	69 U	-	-	290 U
Benzo(a)anthracene	ug/kg	**990**	-	**850**	-	-	**170**
Benzo(a)pyrene	ug/kg	**890**	-	**940**	-	-	**200 J**
Benzo(b)fluoranthene	ug/kg	**1300**	-	**1200**	-	-	**280 J**
Benzo(g,h,i)perylene	ug/kg	**740**	-	**960**	-	-	**140**
Benzo(k)fluoranthene	ug/kg	**480**	-	**530**	-	-	**120**
Biphenyl (1,1-Biphenyl)	ug/kg	41 U	-	51 U	-	-	150 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	**150 J**	-	**200 J**	-	-	150 U
Butyl benzylphthalate (BBP)	ug/kg	53 U	-	66 U	-	-	150 U
Carbazole	ug/kg	**120**	-	**76 J**	-	-	150 U

Table 11

Summary of Detections
Soil/Fill Samples - EU14
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-51**	**SS-52**	**SS-53**	**SS-169-AS**	**SS-170-AS**	**TT-8**
Sample ID:		**SS-38443-102918-JC-051**	**SS-38443-102918-JC-052**	**SS-38443-102918-JC-053**	**SS-38443-103018-JC-169**	**SS-38443-102918-JC-170**	**S-38443-100608-KMV-050**
Sample Date:		**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/30/2018**	**10/29/2018**	**10/6/2008**
Sample Depth:		**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**4 ft BGS**
Parameters	**Units**						
Chrysene	ug/kg	**1000**	-	**930**	-	-	**210**
Dibenz(a,h)anthracene	ug/kg	**200**	-	**230**	-	-	19 U
Dibenzofuran	ug/kg	**94 J**	-	**70 J**	-	-	150 U
Di-n-butylphthalate (DBP)	ug/kg	53 U	-	66 U	-	-	150 U
Fluoranthene	ug/kg	**2000**	-	**1600**	-	-	**340 J**
Fluorene	ug/kg	**67**	-	**35 J**	-	-	19 U
Indeno(1,2,3-cd)pyrene	ug/kg	**640**	-	**720**	-	-	**130**
Naphthalene	ug/kg	**160**	-	**95**	-	-	19 U
Phenanthrene	ug/kg	**1100**	-	**840**	-	-	**110 J**
Phenol	ug/kg	19 U	-	**37 J**	-	-	150 U
Pyrene	ug/kg	**1600**	-	**1300**	-	-	**300**
Metals							
Aluminum	mg/kg	**9200**	-	**7700**	-	-	**7270**
Antimony	mg/kg	**8.5**	-	**13**	-	-	**1.8 J**
Arsenic	mg/kg	**20**	-	**33**	-	-	**8.6**
Barium	mg/kg	**2800**	-	**1200**	-	-	**1150**
Beryllium	mg/kg	**1.3**	-	**0.69**	-	-	**0.93**
Cadmium	mg/kg	**9.3**	-	**8.5**	-	-	**2.0 J**
Calcium	mg/kg	**49000**	-	**56000**	-	-	**55500**
Chromium	mg/kg	**200**	-	**100**	-	-	**60.0 J**
Chromium III (trivalent)	mg/kg	**200**	-	**100**	-	-	-
Chromium VI (hexavalent)	mg/kg	**1.2**	-	**0.55 J**	-	-	-
Cobalt	mg/kg	**17**	-	**13**	-	-	**4.7 J**
Copper	mg/kg	**1600**	-	**1700**	-	-	**176 J**
Iron	mg/kg	**58000**	-	**62000**	-	-	**13700**
Lead	mg/kg	**1600**	-	**3300**	-	-	**234**
Lead - coarse fraction	mg/kg	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-
Magnesium	mg/kg	**9000**	-	**13000**	-	-	**26200**
Manganese	mg/kg	**880**	-	**630**	-	-	**190 J**
Mercury	mg/kg	**0.62**	-	**0.45**	-	-	**0.12**
Nickel	mg/kg	**110**	-	**83**	-	-	**31.9 J**
Potassium	mg/kg	**1200**	-	**740**	-	-	**746**
Selenium	mg/kg	**2.0**	-	**1.1**	-	-	**0.61 J**
Silver	mg/kg	**6.5**	-	**4.3**	-	-	1.2 U
Sodium	mg/kg	**310**	-	**310**	-	-	**596**
Thallium	mg/kg	**0.30**	-	**0.17 J**	-	-	**0.18**
Vanadium	mg/kg	**34**	-	**29**	-	-	**18.9**
Zinc	mg/kg	**2300**	-	**2000**	-	-	**2460**
PCBs							
Aroclor-1242 (PCB-1242)	ug/kg	23 U	-	**370**	-	-	77 U
Aroclor-1248 (PCB-1248)	ug/kg	29 U	-	29 U	-	-	77 U

Table 11

Summary of Detections
Soil/Fill Samples - EU14
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-51**	**SS-52**	**SS-53**	**SS-169-AS**	**SS-170-AS**	**TT-8**
Sample ID:		**SS-38443-102918-JC-051**	**SS-38443-102918-JC-052**	**SS-38443-102918-JC-053**	**SS-38443-103018-JC-169**	**SS-38443-102918-JC-170**	**S-38443-100608-KMV-050**
Sample Date:		**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/30/2018**	**10/29/2018**	**10/6/2008**
Sample Depth:		**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**4 ft BGS**
Parameters	**Units**						
Aroclor-1254 (PCB-1254)	ug/kg	**99**	-	**620**	-	-	77 U
Aroclor-1260 (PCB-1260)	ug/kg	27 U	-	26 U	-	-	**500**
Pesticides							
4,4'-DDD	ug/kg	**9.5 NJ**	-	8.8 U	-	-	200 U
4,4'-DDE	ug/kg	**53**	-	**9.4 NJ**	-	-	200 U
4,4'-DDT	ug/kg	**74**	-	6.7 U	-	-	200 UJ
Dieldrin	ug/kg	6.7 U	-	6.5 U	-	-	200 U
Endrin aldehyde	ug/kg	8.0 U	-	7.8 U	-	-	200 U
Endrin ketone	ug/kg	5.5 U	-	5.3 U	-	-	200 U
gamma-Chlordane	ug/kg	7.5 U	-	7.3 U	-	-	200 U
Heptachlor epoxide	ug/kg	8.8 U	-	8.6 U	-	-	200 U
Dioxin/Furans							
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-
Geotechnical							
Coarse sand	%	-	-	-	-	-	-
Fine sand	%	-	-	-	-	-	-
Fines	%	-	-	-	-	-	-
Gravel	%	-	-	-	-	-	-
Medium sand	%	-	-	-	-	-	-
Sand	%	-	-	-	-	-	-

Table 11

Summary of Detections
Soil/Fill Samples - EU14
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-51**	**SS-52**	**SS-53**	**SS-169-AS**	**SS-170-AS**	**TT-8**
Sample ID:		**SS-38443-102918-JC-051**	**SS-38443-102918-JC-052**	**SS-38443-102918-JC-053**	**SS-38443-103018-JC-169**	**SS-38443-102918-JC-170**	**S-38443-100608-KMV-050**
Sample Date:		**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/30/2018**	**10/29/2018**	**10/6/2008**
Sample Depth:		**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**4 ft BGS**
Parameters	**Units**						
Sieve, #4	% passed	-	-	-	-	-	-
Sieve, #10	% passed	-	-	-	-	-	-
Sieve, #20	% passed	-	-	-	-	-	-
Sieve, #40	% passed	-	-	-	-	-	-
Sieve, #60	% passed	-	-	-	-	-	-
Sieve, #80	% passed	-	-	-	-	-	-
Sieve, #100	% passed	-	-	-	-	-	-
Sieve, #200	% passed	-	-	-	-	-	-
Sieve, 0.375 inch	% passed	-	-	-	-	-	-
Sieve, 0.75 inch	% passed	-	-	-	-	-	-
Sieve, 1 inch	% passed	-	-	-	-	-	-
Sieve, 1.5 inch	% passed	-	-	-	-	-	-
Sieve, 2 inch	% passed	-	-	-	-	-	-
Sieve, 3 inch	% passed	-	-	-	-	-	-
General Chemistry							
Cyanide (total)	mg/kg	**13**	-	**0.56 J**	-	-	**0.27 J**
Fraction organic carbon (FOC)	%	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	**85.9**

Notes
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 11

Summary of Detections
Soil/Fill Samples - EU14
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-8**	**TT-8**	**TT-9**	**TT-9**	**TT-9**
Sample ID:		**S-38443-100608-KMV-050-D**	**S-38443-100608-KMV-051**	**S-38443-100308-KMV-047**	**S-38443-100308-KMV-048**	**S-38443-100308-KMV-049**
Sample Date:		**10/6/2008**	**10/6/2008**	**10/3/2008**	**10/3/2008**	**10/3/2008**
Sample Depth:		**4 ft BGS**	**15 ft BGS**	**7 ft BGS**	**17 ft BGS**	**22 ft BGS**
		Duplicate				
Parameters	**Units**					
Volatiles						
1,1-Dichloroethane	ug/kg	**36 J**	**1.1 J**	**240 J**	**46 J**	2600 U
1,1-Dichloroethene	ug/kg	**4.6 J**	4.7 U	580 U	680 U	2600 U
1,2-Dichlorobenzene	ug/kg	6.3 UJ	4.7 U	580 U	680 U	2600 U
1,2-Dichloroethane	ug/kg	6.3 U	4.7 U	580 U	680 U	2600 U
1,4-Dichlorobenzene	ug/kg	6.3 UJ	4.7 U	**100 J**	680 U	2600 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	25 U	**2.8 J**	**130 J**	**200 J**	11000 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	25 U	19 U	**1000 J**	**860 J**	11000 U
Acetone	ug/kg	25 UJ	**14 J**	2300 U	2700 U	11000 U
Benzene	ug/kg	**2.0 J**	4.7 U	**150 J**	**130 J**	2600 U
Carbon disulfide	ug/kg	**0.83 J**	4.7 U	580 U	**110 J**	2600 U
Chlorobenzene	ug/kg	6.3 UJ	4.7 U	**4000**	**2000**	**720 J**
Chloroethane	ug/kg	**4.3 J**	4.7 U	580 U	680 U	2600 U
cis-1,2-Dichloroethene	ug/kg	**21 J**	**0.63 J**	**890**	**590 J**	**330 J**
Cyclohexane	ug/kg	**0.74 J**	9.4 U	1200 U	**160 J**	5300 U
Ethylbenzene	ug/kg	6.3 UJ	4.7 U	**15000**	**7000**	**66000**
Isopropyl benzene	ug/kg	6.3 UJ	4.7 U	**110 J**	**2500**	**2800**
Methyl acetate	ug/kg	13 U	9.4 U	**190 J**	**1300 J**	5300 U
Methyl cyclohexane	ug/kg	**42 J**	**0.84 J**	**250 J**	**1100 J**	**530 J**
Methyl tert butyl ether (MTBE)	ug/kg	**0.62 J**	19 U	2300 U	2700 U	11000 U
Methylene chloride	ug/kg	6.3 U	4.7 U	**260 J**	680 U	2600 U
Tetrachloroethene	ug/kg	6.3 UJ	4.7 U	580 U	680 U	2600 U
Toluene	ug/kg	**3.2 J**	4.7 U	**5300**	**990**	**450 J**
trans-1,2-Dichloroethene	ug/kg	6.3 U	4.7 U	580 U	680 U	2600 U
Trichloroethene	ug/kg	**5.3 J**	4.7 U	**350 J**	**670 J**	**420 J**
Vinyl chloride	ug/kg	**54 J**	4.7 U	**220 J**	**180 J**	2600 U
Xylenes (total)	ug/kg	13 UJ	**1.1 J**	**27000**	**17000**	**140000**
Semi-Volatiles						
2-Methylnaphthalene	ug/kg	30 U	6.9 U	**470**	13 U	**5400**
3&4-Methylphenol	ug/kg	-	-	-	-	-
Acenaphthene	ug/kg	30 U	6.9 U	85 U	13 U	190 U
Acenaphthylene	ug/kg	30 U	6.9 U	85 U	13 U	190 U
Acetophenone	ug/kg	450 U	100 U	1300 U	190 U	2800 U
Anthracene	ug/kg	30 U	6.9 U	85 U	13 U	190 U
Benzaldehyde	ug/kg	450 U	100 U	1300 U	190 U	2800 U
Benzo(a)anthracene	ug/kg	30 U	6.9 U	85 U	13 U	190 U
Benzo(a)pyrene	ug/kg	**47 J**	6.9 U	85 U	13 U	190 U
Benzo(b)fluoranthene	ug/kg	**88 J**	6.9 U	85 U	13 U	190 U
Benzo(g,h,i)perylene	ug/kg	**49**	6.9 U	85 U	13 U	190 U
Benzo(k)fluoranthene	ug/kg	30 U	6.9 U	85 U	13 U	190 U
Biphenyl (1,1-Biphenyl)	ug/kg	230 U	52 U	640 U	95 U	1400 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	230 U	52 U	**720**	**74 J**	**3000**
Butyl benzylphthalate (BBP)	ug/kg	230 U	52 U	640 U	**200**	1400 U
Carbazole	ug/kg	230 U	52 U	640 U	95 U	1400 U

Table 11

Summary of Detections
Soil/Fill Samples - EU14
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-8**	**TT-8**	**TT-9**	**TT-9**	**TT-9**
Sample ID:		**S-38443-100608-KMV-050-D**	**S-38443-100608-KMV-051**	**S-38443-100308-KMV-047**	**S-38443-100308-KMV-048**	**S-38443-100308-KMV-049**
Sample Date:		**10/6/2008**	**10/6/2008**	**10/3/2008**	**10/3/2008**	**10/3/2008**
Sample Depth:		**4 ft BGS**	**15 ft BGS**	**7 ft BGS**	**17 ft BGS**	**22 ft BGS**
		Duplicate				
Parameters	**Units**					
Chrysene	ug/kg	**180**	6.9 U	85 U	13 U	190 U
Dibenz(a,h)anthracene	ug/kg	30 U	6.9 U	85 U	13 U	190 U
Dibenzofuran	ug/kg	230 U	52 U	640 U	95 U	1400 U
Di-n-butylphthalate (DBP)	ug/kg	230 U	52 U	640 U	**45 J**	**2600**
Fluoranthene	ug/kg	**940 J**	6.9 U	85 U	13 U	**370**
Fluorene	ug/kg	30 U	6.9 U	85 U	13 U	190 U
Indeno(1,2,3-cd)pyrene	ug/kg	30 U	6.9 U	85 U	13 U	190 U
Naphthalene	ug/kg	30 U	6.9 U	**810**	**28**	**3900**
Phenanthrene	ug/kg	**390 J**	6.9 U	85 U	13 U	**430**
Phenol	ug/kg	230 U	52 U	640 U	95 U	1400 U
Pyrene	ug/kg	**830**	6.9 U	85 U	13 U	**330**
Metals						
Aluminum	mg/kg	**7130**	**2100**	**5740**	**7220**	**5530**
Antimony	mg/kg	**2.0 J**	6.2 UJ	**6.6 J**	**1.6 J**	**3.4 J**
Arsenic	mg/kg	**10.6**	**2.9**	**35.0**	**18.5**	**16.4**
Barium	mg/kg	**450**	**10.1 J**	**197**	**162**	**829**
Beryllium	mg/kg	**1.2**	0.52 U	**2.6**	**2.5**	**1.6**
Cadmium	mg/kg	**2.6 J**	**0.18 J**	**6.3**	**0.36 J**	**2.2**
Calcium	mg/kg	**52600**	**109000**	**1670 J**	**21200 J**	**39900 J**
Chromium	mg/kg	**47.4 J**	**5.2 J**	**40.4**	**25.1**	**35.8**
Chromium III (trivalent)	mg/kg	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-
Cobalt	mg/kg	**7.0**	**2.3 J**	**11.8**	**12.7**	**8.9**
Copper	mg/kg	**173 J**	**8.1 J**	**389**	**56.4**	**597**
Iron	mg/kg	**20400**	**5820**	**16800**	**29300**	**23700**
Lead	mg/kg	**238**	**4.6 J**	**1200**	**15.0 J**	**557**
Lead - coarse fraction	mg/kg	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-
Magnesium	mg/kg	**20700**	**51300**	**652 J**	**3370 J**	**13400 J**
Manganese	mg/kg	**211 J**	**198 J**	**163**	**88.1**	**217**
Mercury	mg/kg	**0.13**	0.10 U	**0.40**	**0.12 J**	**0.25**
Nickel	mg/kg	**21.4 J**	**6.8 J**	**40.2**	**33.3**	**27.6**
Potassium	mg/kg	**596**	**313 J**	**415 J**	**937 J**	**686 J**
Selenium	mg/kg	28.4 U	25.9 U	**7.2 J**	**1.6 J**	**7.0 J**
Silver	mg/kg	1.1 U	1.0 U	**0.94 J**	1.9 U	**0.46 J**
Sodium	mg/kg	**543 J**	**191 J**	**106 J**	**272 J**	**169 J**
Thallium	mg/kg	0.12 U	0.10 U	0.64 U	**0.98**	**0.57**
Vanadium	mg/kg	**19.3**	**8.4**	**37.3**	**39.2**	**30.5**
Zinc	mg/kg	**2050**	**23.2**	**89.6**	**40.6**	**264**
PCBs						
Aroclor-1242 (PCB-1242)	ug/kg	75 U	34 U	420 U	63 U	**490**
Aroclor-1248 (PCB-1248)	ug/kg	**430**	34 U	420 U	63 U	230 U

Table 11

Summary of Detections
Soil/Fill Samples - EU14
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-8**	**TT-8**	**TT-9**	**TT-9**	**TT-9**
Sample ID:		**S-38443-100608-KMV-050-D**	**S-38443-100608-KMV-051**	**S-38443-100308-KMV-047**	**S-38443-100308-KMV-048**	**S-38443-100308-KMV-049**
Sample Date:		**10/6/2008**	**10/6/2008**	**10/3/2008**	**10/3/2008**	**10/3/2008**
Sample Depth:		**4 ft BGS**	**15 ft BGS**	**7 ft BGS**	**17 ft BGS**	**22 ft BGS**
		Duplicate				
Parameters	**Units**					
Aroclor-1254 (PCB-1254)	ug/kg	75 U	34 UJ	**3700**	**200**	**1000**
Aroclor-1260 (PCB-1260)	ug/kg	**380**	34 UJ	420 U	63 U	230 U
Pesticides						
4,4'-DDD	ug/kg	39 U	8.8 U	44 U	65 U	240 U
4,4'-DDE	ug/kg	**9.7 J**	8.8 U	**220**	65 U	**77 J**
4,4'-DDT	ug/kg	**21 J**	8.8 UJ	44 UJ	65 UJ	240 UJ
Dieldrin	ug/kg	**12 J**	8.8 U	**270 J**	65 U	240 U
Endrin aldehyde	ug/kg	39 U	8.8 U	**28 J**	65 U	240 U
Endrin ketone	ug/kg	**19 J**	8.8 U	**28 J**	65 U	**96 J**
gamma-Chlordane	ug/kg	39 U	8.8 U	**180 J**	**27 J**	240 U
Heptachlor epoxide	ug/kg	39 U	8.8 U	**27 J**	65 U	240 U
Dioxin/Furans						
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-
Geotechnical						
Coarse sand	%	-	-	-	-	-
Fine sand	%	-	-	-	-	-
Fines	%	-	-	-	-	-
Gravel	%	-	-	-	-	-
Medium sand	%	-	-	-	-	-
Sand	%	-	-	-	-	-

Table 11

Summary of Detections
Soil/Fill Samples - EU14
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-8**	**TT-8**	**TT-9**	**TT-9**	**TT-9**
Sample ID:		**S-38443-100608-KMV-050-D**	**S-38443-100608-KMV-051**	**S-38443-100308-KMV-047**	**S-38443-100308-KMV-048**	**S-38443-100308-KMV-049**
Sample Date:		**10/6/2008**	**10/6/2008**	**10/3/2008**	**10/3/2008**	**10/3/2008**
Sample Depth:		**4 ft BGS**	**15 ft BGS**	**7 ft BGS**	**17 ft BGS**	**22 ft BGS**
		Duplicate				
Parameters	**Units**					
Sieve, #4	% passed	-	-	-	-	-
Sieve, #10	% passed	-	-	-	-	-
Sieve, #20	% passed	-	-	-	-	-
Sieve, #40	% passed	-	-	-	-	-
Sieve, #60	% passed	-	-	-	-	-
Sieve, #80	% passed	-	-	-	-	-
Sieve, #100	% passed	-	-	-	-	-
Sieve, #200	% passed	-	-	-	-	-
Sieve, 0.375 inch	% passed	-	-	-	-	-
Sieve, 0.75 inch	% passed	-	-	-	-	-
Sieve, 1 inch	% passed	-	-	-	-	-
Sieve, 1.5 inch	% passed	-	-	-	-	-
Sieve, 2 inch	% passed	-	-	-	-	-
Sieve, 3 inch	% passed	-	-	-	-	-
General Chemistry						
Cyanide (total)	mg/kg	0.57 U	0.52 U	0.64 U	**1.4 J**	**1.9 J**
Fraction organic carbon (FOC)	%	-	-	-	-	-
Total solids	%	**87.9**	**96.4**	**78.1**	**52.4**	**71.1**

Notes
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 12

Summary of Detections
Soil/Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:							**BH51-13**	**BH51-13**	**BH52-13**	**BH52-13**	**BH53-13**
Sample ID:							**S-38443-062113-JT-027**	**S-38443-062113-JT-028**	**S-38443-061913-JC-014**	**S-38443-061913-JC-015**	**S-38443-061813-JT-001**
Sample Date:							**6/21/2013**	**6/21/2013**	**6/19/2013**	**6/19/2013**	**6/18/2013**
Sample Depth:							**0-2 ft BGS**	**19.3-21.3 ft BGS**	**21.8-23.8 ft BGS**	**21.8-23.8 ft BGS**	**0-2 ft BGS**
										Duplicate	
Parameters	**Units**	**Samples**	**Detects**	**Min Detect**	**Max Detect**	**Average (Detects)**					
Volatiles											
1,1-Dichloroethane	ug/kg	39	1	5.3	5.3	5.300	350 U	5.5 U	R	4.5 U	4.5 U
1,2,4-Trichlorobenzene	ug/kg	36	1	38	38	38.000	350 U	5.5 U	R	4.5 U	4.5 U
1,2-Dichlorobenzene	ug/kg	36	2	57	190	123.500	350 U	5.5 U	R	4.5 U	4.5 U
1,3-Dichlorobenzene	ug/kg	37	1	2.1	2.1	2.100	350 U	5.5 U	R	4.5 U	4.5 U
1,4-Dichlorobenzene	ug/kg	36	1	45	45	45.000	350 U	5.5 U	R	4.5 U	4.5 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	40	12	2.9	85	21.683	1400 U	22 U	R	18 U	18 U
Acetone	ug/kg	40	4	5.4	120	51.450	1400 U	22 U	25 UJ	18 U	18 U
Benzene	ug/kg	39	4	0.62	21	9.230	350 U	5.5 U	R	4.5 U	4.5 U
Carbon disulfide	ug/kg	38	4	0.78	1.8	1.370	350 U	5.5 U	R	4.5 U	4.5 U
Chlorobenzene	ug/kg	38	1	51	51	51.000	350 U	5.5 U	R	4.5 U	4.5 U
cis-1,2-Dichloroethene	ug/kg	38	10	0.36	1000	256.581	350 U	5.5 U	R	4.5 U	4.5 U
Cyclohexane	ug/kg	38	2	46	56	51.000	700 U	11 U	R	9.1 U	9.0 U
Ethylbenzene	ug/kg	39	3	0.28	260000	86681.427	350 U	5.5 U	R	4.5 U	4.5 U
Isopropyl benzene	ug/kg	39	3	85	57000	19628.333	350 U	5.5 U	R	4.5 U	4.5 U
Methyl cyclohexane	ug/kg	38	8	0.39	2800	438.961	**75 J**	**0.39 J**	R	9.1 U	9.0 U
Methylene chloride	ug/kg	40	6	15	560	240.500	350 U	5.5 UJ	20 UJ	7.9 U	6.4 U
Tetrachloroethene	ug/kg	39	7	1	99	29.114	**20 J**	5.5 U	R	4.5 U	4.5 U
Toluene	ug/kg	39	16	0.35	95000	5964.188	**40 J**	**0.97 J**	R	**0.42 J**	4.5 U
trans-1,2-Dichloroethene	ug/kg	38	1	56	56	56.000	350 U	5.5 U	R	4.5 U	4.5 U
Trichloroethene	ug/kg	39	22	0.37	5200	1065.181	**4300**	**1.6 J**	R	**0.52 J**	**1.5 J**
Vinyl chloride	ug/kg	38	2	1.9	54	27.950	350 U	5.5 U	R	4.5 U	4.5 U
Xylenes (total)	ug/kg	39	8	1.2	2000000	250211.675	**140 J**	11 U	R	9.1 U	9.0 U
Semi-Volatiles											
2,4-Dimethylphenol	ug/kg	20	2	490	1400	945.000	-	-	-	-	-
2-Methylnaphthalene	ug/kg	20	16	6.7	730	237.294	-	-	-	-	-
2-Methylphenol	ug/kg	20	2	88	330	209.000	-	-	-	-	-
3&4-Methylphenol	ug/kg	17	2	3900	23000	13450.000	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/kg	20	1	890	890	890.000	-	-	-	-	-
Acenaphthene	ug/kg	20	10	4.9	1400	283.290	-	-	-	-	-
Acenaphthylene	ug/kg	20	9	5.7	97	44.978	-	-	-	-	-
Acetophenone	ug/kg	20	1	110	110	110.000	-	-	-	-	-
Anthracene	ug/kg	20	13	4.4	3600	562.046	-	-	-	-	-
Benzaldehyde	ug/kg	20	1	92	92	92.000	-	-	-	-	-
Benzo(a)anthracene	ug/kg	20	15	11	9600	1409.667	-	-	-	-	-
Benzo(a)pyrene	ug/kg	20	14	15	8500	1369.143	-	-	-	-	-
Benzo(b)fluoranthene	ug/kg	20	15	21	12000	1814.533	-	-	-	-	-
Benzo(g,h,i)perylene	ug/kg	20	14	14	6100	1051.071	-	-	-	-	-
Benzo(k)fluoranthene	ug/kg	20	15	8.2	4200	652.013	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	ug/kg	20	5	34	160	74.400	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	20	7	28	17000	2589.714	-	-	-	-	-
Carbazole	ug/kg	20	7	25	1500	437.571	-	-	-	-	-
Chrysene	ug/kg	20	15	16	9300	1424.933	-	-	-	-	-
Dibenz(a,h)anthracene	ug/kg	20	8	18	1600	427.625	-	-	-	-	-
Dibenzofuran	ug/kg	20	10	14	780	216.800	-	-	-	-	-
Diethyl phthalate	ug/kg	20	4	350	1100	565.000	-	-	-	-	-
Di-n-butylphthalate (DBP)	ug/kg	20	6	27	2400	552.500	-	-	-	-	-

Table 12

Summary of Detections
Soil/Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:							**BH51-13**	**BH51-13**	**BH52-13**	**BH52-13**	**BH53-13**
Sample ID:							**S-38443-062113-JT-027**	**S-38443-062113-JT-028**	**S-38443-061913-JC-014**	**S-38443-061913-JC-015**	**S-38443-061813-JT-001**
Sample Date:							**6/21/2013**	**6/21/2013**	**6/19/2013**	**6/19/2013**	**6/18/2013**
Sample Depth:							**0-2 ft BGS**	**19.3-21.3 ft BGS**	**21.8-23.8 ft BGS**	**21.8-23.8 ft BGS**	**0-2 ft BGS**
										Duplicate	
Parameters	**Units**	**Samples**	**Detects**	**Min Detect**	**Max Detect**	**Average (Detects)**					
Fluoranthene	ug/kg	20	16	33	21000	2916.250	-	-	-	-	-
Fluorene	ug/kg	20	12	4.8	1300	232.883	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/kg	20	14	11	5300	893.571	-	-	-	-	-
Naphthalene	ug/kg	20	16	9.2	1700	332.938	-	-	-	-	-
Phenanthrene	ug/kg	20	16	35	13000	1838.500	-	-	-	-	-
Phenol	ug/kg	20	3	220	1400	626.667	-	-	-	-	-
Pyrene	ug/kg	20	16	26	18000	2435.625	-	-	-	-	-
Metals											
Aluminum	mg/kg	19	19	2800	21700	8365.789	-	-	-	-	-
Antimony	mg/kg	19	18	0.23	70.1	8.665	-	-	-	-	-
Arsenic	mg/kg	20	20	4.7	54	17.550	-	-	-	-	-
Barium	mg/kg	19	19	19.9	3500	721.784	-	-	-	-	-
Beryllium	mg/kg	19	18	0.28	5.8	1.521	-	-	-	-	-
Cadmium	mg/kg	19	19	0.2	16	2.742	-	-	-	-	-
Calcium	mg/kg	19	19	1500	130000	51957.895	-	-	-	-	-
Chromium	mg/kg	19	19	7.8	1080	92.442	-	-	-	-	-
Chromium III (trivalent)	mg/kg	14	14	9	210	37.686	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	14	7	0.38	0.99	0.770	-	-	-	-	-
Cobalt	mg/kg	19	19	3.2	317	27.037	-	-	-	-	-
Copper	mg/kg	19	19	9.6	2900	461.874	-	-	-	-	-
Iron	mg/kg	19	19	8800	110000	29071.579	-	-	-	-	-
Lead	mg/kg	20	20	4.3	17700	1403.665	-	-	-	-	-
Lead - coarse fraction	mg/kg	3	3	18	2000	1206.000	-	-	-	-	-
Lead - fine fraction	mg/kg	3	3	26	2700	1575.333	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	3	3	19	2200	1306.333	-	-	-	-	-
Magnesium	mg/kg	19	19	380	54000	19954.737	-	-	-	-	-
Manganese	mg/kg	19	19	34	1100	452.526	-	-	-	-	-
Mercury	mg/kg	19	16	0.021	6.1	0.696	-	-	-	-	-
Nickel	mg/kg	19	19	9.1	150	42.305	-	-	-	-	-
Potassium	mg/kg	19	19	400	1680	884.211	-	-	-	-	-
Selenium	mg/kg	19	18	0.37	21	3.374	-	-	-	-	-
Silver	mg/kg	19	18	0.036	8.2	1.449	-	-	-	-	-
Sodium	mg/kg	19	17	64	2970	490.176	-	-	-	-	-
Thallium	mg/kg	19	18	0.075	1.4	0.381	-	-	-	-	-
Vanadium	mg/kg	19	19	10	73	28.784	-	-	-	-	-
Zinc	mg/kg	19	19	31	19600	1863.968	-	-	-	-	-

Table 12

Summary of Detections
Soil/Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:							BH51-13	BH51-13	BH52-13	BH52-13	BH53-13
Sample ID:							S-38443-062113-JT-027	S-38443-062113-JT-028	S-38443-061913-JC-014	S-38443-061913-JC-015	S-38443-061813-JT-001
Sample Date:							6/21/2013	6/21/2013	6/19/2013	6/19/2013	6/18/2013
Sample Depth:							0-2 ft BGS	19.3-21.3 ft BGS	21.8-23.8 ft BGS	21.8-23.8 ft BGS	0-2 ft BGS
										Duplicate	
Parameters	**Units**	**Samples**	**Detects**	**Min Detect**	**Max Detect**	**Average (Detects)**					
PCBs											
Aroclor-1232 (PCB-1232)	ug/kg	22	1	1100	1100	1100.000	-	-	-	-	-
Aroclor-1242 (PCB-1242)	ug/kg	22	2	230	1100	665.000	-	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/kg	22	3	1300	8600	3933.333	-	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/kg	22	6	40	1800	507.667	-	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/kg	22	5	44	1100	458.800	-	-	-	-	-
Pesticides											
4,4'-DDD	ug/kg	20	1	2	2	2.000	-	-	-	-	-
4,4'-DDE	ug/kg	20	3	1.6	20	7.967	-	-	-	-	-
4,4'-DDT	ug/kg	20	3	5.1	38	16.433	-	-	-	-	-
Dieldrin	ug/kg	20	1	14	14	14.000	-	-	-	-	-
Endrin	ug/kg	20	1	17	17	17.000	-	-	-	-	-
Endrin aldehyde	ug/kg	20	4	2.1	54	29.025	-	-	-	-	-
Heptachlor epoxide	ug/kg	20	1	9.6	9.6	9.600	-	-	-	-	-
Methoxychlor	ug/kg	20	1	20	20	20.000	-	-	-	-	-
Petroleum Products											
Total Petroleum Hydrocarbons - Extractable (DRO)	ug/kg	1	1	1400000	1400000	1400000.000	-	-	-	-	-
Total Petroleum Hydrocarbons - Purgeable (GRO)	ug/kg	1	1	410000	410000	410000.000	-	-	-	-	-
Dioxin/Furans											
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	5	4	1.3	330	84.075	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	5	5	4.9	1400	315.380	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	5	5	1	410	84.020	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	5	4	5.2	300	82.100	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	5	1	17	17	17.000	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	5	2	1.5	130	65.750	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	5	2	0.43	9.3	4.865	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	5	3	0.51	59	20.503	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	5	2	2.7	35	18.850	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	5	2	3.3	30	16.650	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	5	2	0.71	24	12.355	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	5	2	1	10	5.500	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	5	2	1.5	47	24.250	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	5	2	1.8	55	28.400	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	5	1	28	28	28.000	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	5	1	5.7	5.7	5.700	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	5	5	1.4	880	179.280	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	5	4	10	600	162.500	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	5	5	1.3	830	177.900	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	5	4	1.6	360	96.800	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	5	5	2.4	1300	286.080	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	5	2	5	2500	1252.500	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	5	5	3.5	1900	423.080	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	5	3	0.79	160	54.297	-	-	-	-	-

Table 12

Summary of Detections
Soil/Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:							**BH51-13**	**BH51-13**	**BH52-13**	**BH52-13**	**BH53-13**
Sample ID:							**S-38443-062113-JT-027**	**S-38443-062113-JT-028**	**S-38443-061913-JC-014**	**S-38443-061913-JC-015**	**S-38443-061813-JT-001**
Sample Date:							**6/21/2013**	**6/21/2013**	**6/19/2013**	**6/19/2013**	**6/18/2013**
Sample Depth:							**0-2 ft BGS**	**19.3-21.3 ft BGS**	**21.8-23.8 ft BGS**	**21.8-23.8 ft BGS**	**0-2 ft BGS**
										Duplicate	
Parameters	**Units**	**Samples**	**Detects**	**Min Detect**	**Max Detect**	**Average (Detects)**					
Asbestos											
Chrysotile asbestos	%	1	1	0.25	0.25	0.250	-	-	-	-	-
Geotechnical											
Coarse sand	%	3	3	3.7	15.2	10.233	-	-	-	-	-
Fine sand	%	3	3	8	11.4	9.933	-	-	-	-	-
Fines	%	3	3	9.3	35.3	18.767	-	-	-	-	-
Gravel	%	3	3	42.1	54.6	46.733	-	-	-	-	-
Medium sand	%	3	3	6.1	23	14.333	-	-	-	-	-
Sand	%	3	3	21.2	46.2	34.500	-	-	-	-	-
Sieve, #4	% passed	3	3	45.4	57.9	53.267	-	-	-	-	-
Sieve, #10	% passed	3	3	33.6	52.8	43.033	-	-	-	-	-
Sieve, #20	% passed	3	3	26.2	49.6	35.367	-	-	-	-	-
Sieve, #40	% passed	3	3	19.7	46.7	28.700	-	-	-	-	-
Sieve, #60	% passed	3	3	14.9	43.7	24.733	-	-	-	-	-
Sieve, #80	% passed	3	3	12.7	41.6	22.867	-	-	-	-	-
Sieve, #100	% passed	3	3	11.7	40.3	21.867	-	-	-	-	-
Sieve, #200	% passed	3	3	9.3	35.3	18.767	-	-	-	-	-
Sieve, 0.375 inch	% passed	3	3	60.4	75	65.700	-	-	-	-	-
Sieve, 0.75 inch	% passed	3	3	67.2	94	81.733	-	-	-	-	-
Sieve, 1 inch	% passed	3	3	67.2	100	89.067	-	-	-	-	-
Sieve, 1.5 inch	% passed	3	3	100	100	100.000	-	-	-	-	-
Sieve, 2 inch	% passed	3	3	100	100	100.000	-	-	-	-	-
Sieve, 3 inch	% passed	3	3	100	100	100.000	-	-	-	-	-
General Chemistry											
Cyanide (total)	mg/kg	19	5	0.4	41	10.124	-	-	-	-	-
Fraction organic carbon (FOC)	%	3	3	0.2	2.9	1.133	-	-	-	-	-
Total solids	%	4	4	67.6	94.9	87.450	-	-	-	-	-

Notes
< - Less than reported value.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 12

Summary of Detections
Soil/Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH53-13**	**BH54-13**	**BH54-13**	**BH55-13**	**BH55-13**	**BH56-13**	**BH57-13**
Sample ID:		**S-38443-061813-JT-002**	**S-38443-061813-JT-003**	**S-38443-061813-JT-004**	**S-38443-061813-JC-011**	**S-38443-061813-JC-012**	**S-38443-061813-JC-013**	**S-38443-061813-JT-005**
Sample Date:		**6/18/2013**	**6/18/2013**	**6/18/2013**	**6/18/2013**	**6/18/2013**	**6/18/2013**	**6/18/2013**
Sample Depth:		**19-21 ft BGS**	**4-6 ft BGS**	**18.5-20.5 ft BGS**	**2-4 ft BGS**	**22.5-24.5 ft BGS**	**21-23 ft BGS**	**21-23 ft BGS**
Parameters	**Units**							
Volatiles								
1,1-Dichloroethane	ug/kg	4.3 U	5.6 UJ	5.4 U	R	4.8 U	4.5 U	5.2 U
1,2,4-Trichlorobenzene	ug/kg	4.3 U	5.6 UJ	5.4 U	R	4.8 U	4.5 U	5.2 U
1,2-Dichlorobenzene	ug/kg	4.3 U	5.6 UJ	5.4 U	R	4.8 U	4.5 U	5.2 U
1,3-Dichlorobenzene	ug/kg	4.3 U	5.6 UJ	5.4 U	R	4.8 U	4.5 U	5.2 U
1,4-Dichlorobenzene	ug/kg	4.3 U	5.6 UJ	5.4 U	R	4.8 U	4.5 U	5.2 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	17 U	22 UJ	21 U	R	19 U	18 U	21 U
Acetone	ug/kg	17 U	22 UJ	21 U	130000 UJ	19 U	18 U	21 U
Benzene	ug/kg	4.3 U	5.6 UJ	5.4 U	R	4.8 U	4.5 U	5.2 U
Carbon disulfide	ug/kg	4.3 U	5.6 UJ	5.4 U	R	4.8 U	4.5 U	5.2 U
Chlorobenzene	ug/kg	4.3 U	5.6 UJ	5.4 U	R	4.8 U	4.5 U	5.2 U
cis-1,2-Dichloroethene	ug/kg	4.3 U	5.6 UJ	5.4 U	R	4.8 U	4.5 U	5.2 U
Cyclohexane	ug/kg	8.6 U	11 UJ	11 U	R	9.7 U	9.1 U	10 U
Ethylbenzene	ug/kg	4.3 U	5.6 UJ	5.4 U	**260000 J**	4.8 U	4.5 U	5.2 U
Isopropyl benzene	ug/kg	4.3 U	5.6 UJ	5.4 U	**57000 J**	4.8 U	4.5 U	5.2 U
Methyl cyclohexane	ug/kg	8.6 U	11 UJ	11 U	R	9.7 U	9.1 U	10 U
Methylene chloride	ug/kg	6.5 U	9.0 UJ	8.6 U	33000 UJ	9.6 U	6.9 U	9.3 U
Tetrachloroethene	ug/kg	4.3 U	5.6 UJ	5.4 U	R	4.8 U	4.5 U	5.2 U
Toluene	ug/kg	4.3 U	5.6 UJ	5.4 U	**95000 J**	4.8 U	4.5 U	5.2 U
trans-1,2-Dichloroethene	ug/kg	4.3 U	5.6 UJ	5.4 U	R	4.8 U	4.5 U	5.2 U
Trichloroethene	ug/kg	**10**	**8.4 J**	5.4 U	R	4.8 U	4.5 U	5.2 U
Vinyl chloride	ug/kg	4.3 U	5.6 UJ	5.4 U	R	4.8 U	4.5 U	5.2 U
Xylenes (total)	ug/kg	8.6 U	11 UJ	11 U	**2000000 J**	9.7 U	9.1 U	10 U
Semi-Volatiles								
2,4-Dimethylphenol	ug/kg	-	-	-	-	-	-	-
2-Methylnaphthalene	ug/kg	-	-	-	-	-	-	-
2-Methylphenol	ug/kg	-	-	-	-	-	-	-
3&4-Methylphenol	ug/kg	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/kg	-	-	-	-	-	-	-
Acenaphthene	ug/kg	-	-	-	-	-	-	-
Acenaphthylene	ug/kg	-	-	-	-	-	-	-
Acetophenone	ug/kg	-	-	-	-	-	-	-
Anthracene	ug/kg	-	-	-	-	-	-	-
Benzaldehyde	ug/kg	-	-	-	-	-	-	-
Benzo(a)anthracene	ug/kg	-	-	-	-	-	-	-
Benzo(a)pyrene	ug/kg	-	-	-	-	-	-	-
Benzo(b)fluoranthene	ug/kg	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	ug/kg	-	-	-	-	-	-	-
Benzo(k)fluoranthene	ug/kg	-	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	ug/kg	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	-	-	-	-	-	-	-
Carbazole	ug/kg	-	-	-	-	-	-	-
Chrysene	ug/kg	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	ug/kg	-	-	-	-	-	-	-
Dibenzofuran	ug/kg	-	-	-	-	-	-	-
Diethyl phthalate	ug/kg	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	ug/kg	-	-	-	-	-	-	-

Table 12

Summary of Detections
Soil/Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH53-13**	**BH54-13**	**BH54-13**	**BH55-13**	**BH55-13**	**BH56-13**	**BH57-13**
Sample ID:		**S-38443-061813-JT-002**	**S-38443-061813-JT-003**	**S-38443-061813-JT-004**	**S-38443-061813-JC-011**	**S-38443-061813-JC-012**	**S-38443-061813-JC-013**	**S-38443-061813-JT-005**
Sample Date:		**6/18/2013**	**6/18/2013**	**6/18/2013**	**6/18/2013**	**6/18/2013**	**6/18/2013**	**6/18/2013**
Sample Depth:		**19-21 ft BGS**	**4-6 ft BGS**	**18.5-20.5 ft BGS**	**2-4 ft BGS**	**22.5-24.5 ft BGS**	**21-23 ft BGS**	**21-23 ft BGS**
Parameters	**Units**							
Fluoranthene	ug/kg	-	-	-	-	-	-	-
Fluorene	ug/kg	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/kg	-	-	-	-	-	-	-
Naphthalene	ug/kg	-	-	-	-	-	-	-
Phenanthrene	ug/kg	-	-	-	-	-	-	-
Phenol	ug/kg	-	-	-	-	-	-	-
Pyrene	ug/kg	-	-	-	-	-	-	-
Metals								
Aluminum	mg/kg	-	-	-	-	-	-	-
Antimony	mg/kg	-	-	-	-	-	-	-
Arsenic	mg/kg	-	-	-	-	-	-	-
Barium	mg/kg	-	-	-	-	-	-	-
Beryllium	mg/kg	-	-	-	-	-	-	-
Cadmium	mg/kg	-	-	-	-	-	-	-
Calcium	mg/kg	-	-	-	-	-	-	-
Chromium	mg/kg	-	-	-	-	-	-	-
Chromium III (trivalent)	mg/kg	-	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-	-
Cobalt	mg/kg	-	-	-	-	-	-	-
Copper	mg/kg	-	-	-	-	-	-	-
Iron	mg/kg	-	-	-	-	-	-	-
Lead	mg/kg	-	-	-	-	-	-	-
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-
Magnesium	mg/kg	-	-	-	-	-	-	-
Manganese	mg/kg	-	-	-	-	-	-	-
Mercury	mg/kg	-	-	-	-	-	-	-
Nickel	mg/kg	-	-	-	-	-	-	-
Potassium	mg/kg	-	-	-	-	-	-	-
Selenium	mg/kg	-	-	-	-	-	-	-
Silver	mg/kg	-	-	-	-	-	-	-
Sodium	mg/kg	-	-	-	-	-	-	-
Thallium	mg/kg	-	-	-	-	-	-	-
Vanadium	mg/kg	-	-	-	-	-	-	-
Zinc	mg/kg	-	-	-	-	-	-	-

Table 12

Summary of Detections
Soil/Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH53-13**	**BH54-13**	**BH54-13**	**BH55-13**	**BH55-13**	**BH56-13**	**BH57-13**
Sample ID:		**S-38443-061813-JT-002**	**S-38443-061813-JT-003**	**S-38443-061813-JT-004**	**S-38443-061813-JC-011**	**S-38443-061813-JC-012**	**S-38443-061813-JC-013**	**S-38443-061813-JT-005**
Sample Date:		**6/18/2013**	**6/18/2013**	**6/18/2013**	**6/18/2013**	**6/18/2013**	**6/18/2013**	**6/18/2013**
Sample Depth:		**19-21 ft BGS**	**4-6 ft BGS**	**18.5-20.5 ft BGS**	**2-4 ft BGS**	**22.5-24.5 ft BGS**	**21-23 ft BGS**	**21-23 ft BGS**
Parameters	**Units**							
PCBs								
Aroclor-1232 (PCB-1232)	ug/kg	-	-	-	-	-	-	34 U
Aroclor-1242 (PCB-1242)	ug/kg	-	-	-	-	-	-	34 U
Aroclor-1248 (PCB-1248)	ug/kg	-	-	-	-	-	-	34 U
Aroclor-1254 (PCB-1254)	ug/kg	-	-	-	-	-	-	34 U
Aroclor-1260 (PCB-1260)	ug/kg	-	-	-	-	-	-	34 U
Pesticides								
4,4'-DDD	ug/kg	-	-	-	-	-	-	-
4,4'-DDE	ug/kg	-	-	-	-	-	-	-
4,4'-DDT	ug/kg	-	-	-	-	-	-	-
Dieldrin	ug/kg	-	-	-	-	-	-	-
Endrin	ug/kg	-	-	-	-	-	-	-
Endrin aldehyde	ug/kg	-	-	-	-	-	-	-
Heptachlor epoxide	ug/kg	-	-	-	-	-	-	-
Methoxychlor	ug/kg	-	-	-	-	-	-	-
Petroleum Products								
Total Petroleum Hydrocarbons - Extractable (DRO)	ug/kg	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons - Purgeable (GRO)	ug/kg	-	-	-	-	-	-	-
Dioxin/Furans								
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-

Table 12

Summary of Detections
Soil/Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH53-13**	**BH54-13**	**BH54-13**	**BH55-13**	**BH55-13**	**BH56-13**	**BH57-13**
Sample ID:		**S-38443-061813-JT-002**	**S-38443-061813-JT-003**	**S-38443-061813-JT-004**	**S-38443-061813-JC-011**	**S-38443-061813-JC-012**	**S-38443-061813-JC-013**	**S-38443-061813-JT-005**
Sample Date:		**6/18/2013**	**6/18/2013**	**6/18/2013**	**6/18/2013**	**6/18/2013**	**6/18/2013**	**6/18/2013**
Sample Depth:		**19-21 ft BGS**	**4-6 ft BGS**	**18.5-20.5 ft BGS**	**2-4 ft BGS**	**22.5-24.5 ft BGS**	**21-23 ft BGS**	**21-23 ft BGS**
Parameters	**Units**							
Asbestos								
Chrysotile asbestos	%	-	-	-	-	-	-	-
Geotechnical								
Coarse sand	%	-	-	-	-	-	-	-
Fine sand	%	-	-	-	-	-	-	-
Fines	%	-	-	-	-	-	-	-
Gravel	%	-	-	-	-	-	-	-
Medium sand	%	-	-	-	-	-	-	-
Sand	%	-	-	-	-	-	-	-
Sieve, #4	% passed	-	-	-	-	-	-	-
Sieve, #10	% passed	-	-	-	-	-	-	-
Sieve, #20	% passed	-	-	-	-	-	-	-
Sieve, #40	% passed	-	-	-	-	-	-	-
Sieve, #60	% passed	-	-	-	-	-	-	-
Sieve, #80	% passed	-	-	-	-	-	-	-
Sieve, #100	% passed	-	-	-	-	-	-	-
Sieve, #200	% passed	-	-	-	-	-	-	-
Sieve, 0.375 inch	% passed	-	-	-	-	-	-	-
Sieve, 0.75 inch	% passed	-	-	-	-	-	-	-
Sieve, 1 inch	% passed	-	-	-	-	-	-	-
Sieve, 1.5 inch	% passed	-	-	-	-	-	-	-
Sieve, 2 inch	% passed	-	-	-	-	-	-	-
Sieve, 3 inch	% passed	-	-	-	-	-	-	-
General Chemistry								
Cyanide (total)	mg/kg	-	-	-	-	-	-	-
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-

Notes
< - Less than reported value.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 12

Summary of Detections
Soil/Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH58-13**	**BH58-13**	**BH59-13**	**BH59-13**	**BH60-13**	**BH61-13**	**BH143-18**
Sample ID:		**S-38443-061913-JT-009**	**S-38443-061913-JT-010**	**S-38443-061913-JT-006**	**S-38443-061913-JT-007**	**S-38443-061913-JT-021**	**S-38443-061913-JC-019**	**S-38443-012318-JC-061**
Sample Date:		**6/19/2013**	**6/19/2013**	**6/19/2013**	**6/19/2013**	**6/19/2013**	**6/19/2013**	**1/23/2018**
Sample Depth:		**21.5-23.5 ft BGS**	**21.5-23.5 ft BGS**	**2-4 ft BGS**	**20.5-22.5 ft BGS**	**20-22 ft BGS**	**21.2-23.2 ft BGS**	**10-12 ft BGS**
			Duplicate					
Parameters	**Units**							
Volatiles								
1,1-Dichloroethane	ug/kg	5.5 U	5.3 U	430 U	5.2 U	5.6 U	4.3 U	0.54 U
1,2,4-Trichlorobenzene	ug/kg	5.5 U	5.3 U	430 U	5.2 U	5.6 U	4.3 U	0.39 U
1,2-Dichlorobenzene	ug/kg	5.5 U	5.3 U	430 U	5.2 U	5.6 U	4.3 U	0.36 U
1,3-Dichlorobenzene	ug/kg	5.5 U	5.3 U	430 U	5.2 U	5.6 U	4.3 U	0.47 U
1,4-Dichlorobenzene	ug/kg	5.5 U	5.3 U	430 U	5.2 U	5.6 U	4.3 U	0.57 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	22 U	21 U	1700 U	21 U	22 U	17 U	**16 J**
Acetone	ug/kg	22 U	21 U	1700 U	21 U	22 U	17 U	**71 J**
Benzene	ug/kg	5.5 U	5.3 U	430 U	5.2 U	5.6 U	4.3 U	0.52 U
Carbon disulfide	ug/kg	**0.78 J**	5.3 U	430 U	5.2 U	5.6 U	4.3 U	**1.8 J**
Chlorobenzene	ug/kg	5.5 U	5.3 U	430 U	5.2 U	5.6 U	4.3 U	0.54 U
cis-1,2-Dichloroethene	ug/kg	5.5 U	5.3 U	**230 J**	5.2 U	5.6 U	4.3 U	0.45 U
Cyclohexane	ug/kg	11 U	11 U	860 U	10 U	11 U	8.6 U	0.34 U
Ethylbenzene	ug/kg	5.5 U	5.3 U	430 U	5.2 U	5.6 U	**0.28 J**	0.44 U
Isopropyl benzene	ug/kg	5.5 U	5.3 U	430 U	5.2 U	5.6 U	4.3 U	0.32 U
Methyl cyclohexane	ug/kg	11 U	11 U	860 U	10 U	11 U	8.6 U	0.37 U
Methylene chloride	ug/kg	11 U	8.9 U	430 U	8.9 U	7.0 U	**15 J**	**55**
Tetrachloroethene	ug/kg	5.5 U	5.3 U	430 U	5.2 U	5.6 U	**1.0 J**	0.60 U
Toluene	ug/kg	5.5 U	5.3 U	**66 J**	**0.35 J**	5.6 U	**0.63 J**	**0.77 J**
trans-1,2-Dichloroethene	ug/kg	5.5 U	5.3 U	430 U	5.2 U	5.6 U	4.3 U	0.62 U
Trichloroethene	ug/kg	5.5 U	5.3 U	**2500**	**0.83 J**	5.6 U	**0.37 J**	0.67 U
Vinyl chloride	ug/kg	5.5 U	5.3 U	430 U	5.2 U	5.6 U	4.3 U	0.45 U
Xylenes (total)	ug/kg	11 U	11 U	860 U	10 U	11 U	8.6 U	0.65 U
Semi-Volatiles								
2,4-Dimethylphenol	ug/kg	-	-	-	-	-	-	**1400 J**
2-Methylnaphthalene	ug/kg	-	-	-	-	-	-	**510**
2-Methylphenol	ug/kg	-	-	-	-	-	-	**330 J**
3&4-Methylphenol	ug/kg	-	-	-	-	-	-	**23000**
3,3'-Dichlorobenzidine	ug/kg	-	-	-	-	-	-	**890 J**
Acenaphthene	ug/kg	-	-	-	-	-	-	**170 J**
Acenaphthylene	ug/kg	-	-	-	-	-	-	9.3 U
Acetophenone	ug/kg	-	-	-	-	-	-	250 U
Anthracene	ug/kg	-	-	-	-	-	-	**230**
Benzaldehyde	ug/kg	-	-	-	-	-	-	320 U
Benzo(a)anthracene	ug/kg	-	-	-	-	-	-	**440 J**
Benzo(a)pyrene	ug/kg	-	-	-	-	-	-	**490 J**
Benzo(b)fluoranthene	ug/kg	-	-	-	-	-	-	**650 J**
Benzo(g,h,i)perylene	ug/kg	-	-	-	-	-	-	**390 J**
Benzo(k)fluoranthene	ug/kg	-	-	-	-	-	-	**300**
Biphenyl (1,1-Biphenyl)	ug/kg	-	-	-	-	-	-	**160 J**
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	-	-	-	-	-	-	510 U
Carbazole	ug/kg	-	-	-	-	-	-	720 U
Chrysene	ug/kg	-	-	-	-	-	-	**590 J**
Dibenz(a,h)anthracene	ug/kg	-	-	-	-	-	-	18 U
Dibenzofuran	ug/kg	-	-	-	-	-	-	**220 J**
Diethyl phthalate	ug/kg	-	-	-	-	-	-	**1100 J**
Di-n-butylphthalate (DBP)	ug/kg	-	-	-	-	-	-	**2400**

Table 12

Summary of Detections
Soil/Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH58-13**	**BH58-13**	**BH59-13**	**BH59-13**	**BH60-13**	**BH61-13**	**BH143-18**
Sample ID:		**S-38443-061913-JT-009**	**S-38443-061913-JT-010**	**S-38443-061913-JT-006**	**S-38443-061913-JT-007**	**S-38443-061913-JT-021**	**S-38443-061913-JC-019**	**S-38443-012318-JC-061**
Sample Date:		**6/19/2013**	**6/19/2013**	**6/19/2013**	**6/19/2013**	**6/19/2013**	**6/19/2013**	**1/23/2018**
Sample Depth:		**21.5-23.5 ft BGS**	**21.5-23.5 ft BGS**	**2-4 ft BGS**	**20.5-22.5 ft BGS**	**20-22 ft BGS**	**21.2-23.2 ft BGS**	**10-12 ft BGS**
			Duplicate					
Parameters	**Units**							
Fluoranthene	ug/kg	-	-	-	-	-	-	**1200 J**
Fluorene	ug/kg	-	-	-	-	-	-	**240**
Indeno(1,2,3-cd)pyrene	ug/kg	-	-	-	-	-	-	**320**
Naphthalene	ug/kg	-	-	-	-	-	-	**1700**
Phenanthrene	ug/kg	-	-	-	-	-	-	**1300 J**
Phenol	ug/kg	-	-	-	-	-	-	**1400**
Pyrene	ug/kg	-	-	-	-	-	-	**900 J**
Metals								
Aluminum	mg/kg	-	-	-	-	-	-	**6700**
Antimony	mg/kg	-	-	-	-	-	-	**1.7**
Arsenic	mg/kg	-	-	-	-	-	-	**54**
Barium	mg/kg	-	-	-	-	-	-	**260**
Beryllium	mg/kg	-	-	-	-	-	-	**4.9**
Cadmium	mg/kg	-	-	-	-	-	-	**1.1 J**
Calcium	mg/kg	-	-	-	-	-	-	**14000**
Chromium	mg/kg	-	-	-	-	-	-	**26**
Chromium III (trivalent)	mg/kg	-	-	-	-	-	-	**26**
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-	0.32 U
Cobalt	mg/kg	-	-	-	-	-	-	**13**
Copper	mg/kg	-	-	-	-	-	-	**65**
Iron	mg/kg	-	-	-	-	-	-	**11000**
Lead	mg/kg	-	-	-	-	-	-	**91**
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-
Magnesium	mg/kg	-	-	-	-	-	-	**1200**
Manganese	mg/kg	-	-	-	-	-	-	**59**
Mercury	mg/kg	-	-	-	-	-	-	**1.7 J**
Nickel	mg/kg	-	-	-	-	-	-	**21**
Potassium	mg/kg	-	-	-	-	-	-	**690**
Selenium	mg/kg	-	-	-	-	-	-	**21**
Silver	mg/kg	-	-	-	-	-	-	**0.32 J**
Sodium	mg/kg	-	-	-	-	-	-	**550**
Thallium	mg/kg	-	-	-	-	-	-	**1.2**
Vanadium	mg/kg	-	-	-	-	-	-	**61**
Zinc	mg/kg	-	-	-	-	-	-	**89**

Table 12

Summary of Detections
Soil/Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH58-13**	**BH58-13**	**BH59-13**	**BH59-13**	**BH60-13**	**BH61-13**	**BH143-18**
Sample ID:		**S-38443-061913-JT-009**	**S-38443-061913-JT-010**	**S-38443-061913-JT-006**	**S-38443-061913-JT-007**	**S-38443-061913-JT-021**	**S-38443-061913-JC-019**	**S-38443-012318-JC-061**
Sample Date:		**6/19/2013**	**6/19/2013**	**6/19/2013**	**6/19/2013**	**6/19/2013**	**6/19/2013**	**1/23/2018**
Sample Depth:		**21.5-23.5 ft BGS**	**21.5-23.5 ft BGS**	**2-4 ft BGS**	**20.5-22.5 ft BGS**	**20-22 ft BGS**	**21.2-23.2 ft BGS**	**10-12 ft BGS**
			Duplicate					
Parameters	**Units**							
PCBs								
Aroclor-1232 (PCB-1232)	ug/kg	-	-	-	-	-	34 U	31 U
Aroclor-1242 (PCB-1242)	ug/kg	-	-	-	-	-	34 U	**230 J**
Aroclor-1248 (PCB-1248)	ug/kg	-	-	-	-	-	34 U	33 U
Aroclor-1254 (PCB-1254)	ug/kg	-	-	-	-	-	34 U	**560**
Aroclor-1260 (PCB-1260)	ug/kg	-	-	-	-	-	34 U	30 U
Pesticides								
4,4'-DDD	ug/kg	-	-	-	-	-	-	4.4 U
4,4'-DDE	ug/kg	-	-	-	-	-	-	1.6 U
4,4'-DDT	ug/kg	-	-	-	-	-	-	**5.1 J**
Dieldrin	ug/kg	-	-	-	-	-	-	1.2 U
Endrin	ug/kg	-	-	-	-	-	-	1.9 U
Endrin aldehyde	ug/kg	-	-	-	-	-	-	240 U
Heptachlor epoxide	ug/kg	-	-	-	-	-	-	3.2 U
Methoxychlor	ug/kg	-	-	-	-	-	-	1.6 UJ
Petroleum Products								
Total Petroleum Hydrocarbons - Extractable (DRO)	ug/kg	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons - Purgeable (GRO)	ug/kg	-	-	-	-	-	-	-
Dioxin/Furans								
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	0.39 U
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	**57**
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	**1.0 J**
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	**5.2 J**
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	0.099 UJ
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	0.074 UJ
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	0.065 U
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	0.069 U
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	0.070 U
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	0.063 U
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	0.16 U
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	0.17 U
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	0.074 U
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	0.14 U
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	0.30 UJ
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	0.43 U
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	**1.9 J**
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	**10 J**
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	**1.5 J**
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	**1.6 J**
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	**2.4 J**
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	0.17 U
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	**4.7 J**
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	**0.79 J**

Table 12

Summary of Detections
Soil/Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH58-13**	**BH58-13**	**BH59-13**	**BH59-13**	**BH60-13**	**BH61-13**	**BH143-18**
Sample ID:		**S-38443-061913-JT-009**	**S-38443-061913-JT-010**	**S-38443-061913-JT-006**	**S-38443-061913-JT-007**	**S-38443-061913-JT-021**	**S-38443-061913-JC-019**	**S-38443-012318-JC-061**
Sample Date:		**6/19/2013**	**6/19/2013**	**6/19/2013**	**6/19/2013**	**6/19/2013**	**6/19/2013**	**1/23/2018**
Sample Depth:		**21.5-23.5 ft BGS**	**21.5-23.5 ft BGS**	**2-4 ft BGS**	**20.5-22.5 ft BGS**	**20-22 ft BGS**	**21.2-23.2 ft BGS**	**10-12 ft BGS**
			Duplicate					
Parameters	**Units**							
Asbestos								
Chrysotile asbestos	%	-	-	-	-	-	-	-
Geotechnical								
Coarse sand	%	-	-	-	-	-	-	-
Fine sand	%	-	-	-	-	-	-	-
Fines	%	-	-	-	-	-	-	-
Gravel	%	-	-	-	-	-	-	-
Medium sand	%	-	-	-	-	-	-	-
Sand	%	-	-	-	-	-	-	-
Sieve, #4	% passed	-	-	-	-	-	-	-
Sieve, #10	% passed	-	-	-	-	-	-	-
Sieve, #20	% passed	-	-	-	-	-	-	-
Sieve, #40	% passed	-	-	-	-	-	-	-
Sieve, #60	% passed	-	-	-	-	-	-	-
Sieve, #80	% passed	-	-	-	-	-	-	-
Sieve, #100	% passed	-	-	-	-	-	-	-
Sieve, #200	% passed	-	-	-	-	-	-	-
Sieve, 0.375 inch	% passed	-	-	-	-	-	-	-
Sieve, 0.75 inch	% passed	-	-	-	-	-	-	-
Sieve, 1 inch	% passed	-	-	-	-	-	-	-
Sieve, 1.5 inch	% passed	-	-	-	-	-	-	-
Sieve, 2 inch	% passed	-	-	-	-	-	-	-
Sieve, 3 inch	% passed	-	-	-	-	-	-	-
General Chemistry								
Cyanide (total)	mg/kg	-	-	-	-	-	-	**2.1 J**
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-

Notes
< - Less than reported value.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 12

Summary of Detections
Soil/Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH143-18**	**BH144-18**	**BH144-18**	**BH145-18**	**GP19-18**	**GP20-18**	**GP33-18**
Sample ID:		**S-38443-012318-JC-062**	**S-38443-012218-JC-057**	**S-38443-012218-JC-057**	**S-38443-012218-JC-059**	**S-38443-012418-JC-063**	**S-38443-012218-JC-060**	**S-38443-012218-JC-058**
Sample Date:		**1/23/2018**	**1/22/2018**	**1/22/2018**	**1/22/2018**	**1/24/2018**	**1/22/2018**	**1/22/2018**
Sample Depth:		**10-12 ft BGS**	**14.5-16.5 ft BGS**	**15.5-16.5 ft BGS**	**9-11 ft BGS**	**11-12 ft bgs**	**11-12 ft bgs**	**17.5-18.5 ft bgs**
		Duplicate						
Parameters	**Units**							
Volatiles								
1,1-Dichloroethane	ug/kg	0.58 U	0.31 U	-	0.30 U	0.54 U	0.30 U	0.29 U
1,2,4-Trichlorobenzene	ug/kg	0.42 U	0.22 U	-	0.22 U	0.39 U	0.22 U	0.21 U
1,2-Dichlorobenzene	ug/kg	0.39 U	0.20 U	-	0.20 U	0.36 U	0.20 U	0.19 U
1,3-Dichlorobenzene	ug/kg	0.51 U	0.27 U	-	0.26 U	0.47 U	0.27 U	0.25 U
1,4-Dichlorobenzene	ug/kg	0.62 U	0.33 U	-	0.32 U	0.57 U	0.32 U	0.31 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	**28 J**	**3.0 J**	-	**2.9 J**	2.1 U	1.2 U	1.1 U
Acetone	ug/kg	**120 J**	**9.4 J**	-	**5.4 J**	20 U	2.8 U	2.7 U
Benzene	ug/kg	**0.62 J**	0.30 U	-	0.29 U	0.52 U	0.29 U	0.28 U
Carbon disulfide	ug/kg	**1.6 J**	0.20 U	-	0.19 U	**1.3 J**	0.19 U	0.18 U
Chlorobenzene	ug/kg	0.58 U	0.31 U	-	0.30 U	0.54 U	0.30 U	0.29 U
cis-1,2-Dichloroethene	ug/kg	0.49 U	**0.36 J**	-	**0.65 J**	**17**	**1.8 J**	0.24 U
Cyclohexane	ug/kg	0.37 U	0.20 U	-	0.19 U	0.34 U	0.19 U	0.18 U
Ethylbenzene	ug/kg	0.47 U	0.25 U	-	0.24 U	0.44 U	0.25 U	0.24 U
Isopropyl benzene	ug/kg	0.35 U	0.19 U	-	0.18 U	0.33 U	0.18 U	0.17 U
Methyl cyclohexane	ug/kg	0.40 U	0.21 U	-	0.21 U	**2.3 J**	0.21 U	0.20 U
Methylene chloride	ug/kg	**63**	5.8 U	-	5.6 U	9.7 U	5.0 U	5.1 U
Tetrachloroethene	ug/kg	0.65 U	0.34 U	-	0.33 U	0.60 U	0.34 U	0.32 U
Toluene	ug/kg	**1.3 J**	0.32 U	-	0.31 U	**3.8 J**	**0.59 J**	**0.67 J**
trans-1,2-Dichloroethene	ug/kg	0.67 U	0.35 U	-	0.34 U	0.62 U	0.35 U	0.33 U
Trichloroethene	ug/kg	0.72 U	0.38 U	-	**0.64 J**	0.67 U	**13**	0.36 U
Vinyl chloride	ug/kg	0.49 U	0.26 U	-	0.25 U	**1.9 J**	0.26 U	0.24 U
Xylenes (total)	ug/kg	0.70 U	0.37 U	-	0.36 U	**2.2 J**	0.37 U	0.35 U
Semi-Volatiles								
2,4-Dimethylphenol	ug/kg	**490 J**	24 U	-	23 U	-	-	-
2-Methylnaphthalene	ug/kg	**180**	**82**	-	0.58 U	-	-	-
2-Methylphenol	ug/kg	**88 J**	13 U	-	13 U	-	-	-
3&4-Methylphenol	ug/kg	**3900**	24 U	-	23 U	-	-	-
3,3'-Dichlorobenzidine	ug/kg	100 U	22 U	-	21 U	-	-	-
Acenaphthene	ug/kg	**55**	0.92 U	-	0.89 U	-	-	-
Acenaphthylene	ug/kg	2.0 U	0.43 U	-	0.41 U	-	-	-
Acetophenone	ug/kg	53 U	11 U	-	11 U	-	-	-
Anthracene	ug/kg	4.5 U	**4.4 J**	-	0.91 U	-	-	-
Benzaldehyde	ug/kg	**92 J**	15 U	-	14 U	-	-	-
Benzo(a)anthracene	ug/kg	**35 J**	**11**	-	0.73 U	-	-	-
Benzo(a)pyrene	ug/kg	3.7 UJ	**15**	-	0.75 U	-	-	-
Benzo(b)fluoranthene	ug/kg	**57 J**	**21**	-	0.69 U	-	-	-
Benzo(g,h,i)perylene	ug/kg	2.0 UJ	**14**	-	0.41 U	-	-	-
Benzo(k)fluoranthene	ug/kg	**23 J**	**8.2**	-	0.79 U	-	-	-
Biphenyl (1,1-Biphenyl)	ug/kg	**34 J**	**43 J**	-	4.1 U	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	110 U	**28 J**	-	22 U	-	-	-
Carbazole	ug/kg	150 U	33 U	-	31 U	-	-	-
Chrysene	ug/kg	**26 J**	**16**	-	1.3 U	-	-	-
Dibenz(a,h)anthracene	ug/kg	3.8 U	0.80 U	-	0.77 U	-	-	-
Dibenzofuran	ug/kg	3.8 U	0.80 U	-	0.77 U	-	-	-
Diethyl phthalate	ug/kg	91 U	39 U	-	19 U	-	-	-
Di-n-butylphthalate (DBP)	ug/kg	86 U	18 U	-	17 U	-	-	-

Table 12

Summary of Detections
Soil/Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH143-18**	**BH144-18**	**BH144-18**	**BH145-18**	**GP19-18**	**GP20-18**	**GP33-18**
Sample ID:		**S-38443-012318-JC-062**	**S-38443-012218-JC-057**	**S-38443-012218-JC-057**	**S-38443-012218-JC-059**	**S-38443-012418-JC-063**	**S-38443-012218-JC-060**	**S-38443-012218-JC-058**
Sample Date:		**1/23/2018**	**1/22/2018**	**1/22/2018**	**1/22/2018**	**1/24/2018**	**1/22/2018**	**1/22/2018**
Sample Depth:		**10-12 ft BGS**	**14.5-16.5 ft BGS**	**15.5-16.5 ft BGS**	**9-11 ft BGS**	**11-12 ft bgs**	**11-12 ft bgs**	**17.5-18.5 ft bgs**
		Duplicate						
Parameters	**Units**							
Fluoranthene	ug/kg	**70 J**	**33**	-	0.64 U	-	-	-
Fluorene	ug/kg	**23 J**	**5.8 J**	-	0.62 U	-	-	-
Indeno(1,2,3-cd)pyrene	ug/kg	2.0 U	**11**	-	0.41 U	-	-	-
Naphthalene	ug/kg	**830**	**280**	-	0.96 U	-	-	-
Phenanthrene	ug/kg	**82 J**	**42**	-	0.85 U	-	-	-
Phenol	ug/kg	**260 J**	8.9 U	-	8.5 U	-	-	-
Pyrene	ug/kg	**48 J**	**26**	-	0.51 U	-	-	-
Metals								
Aluminum	mg/kg	**9100**	**9000**	-	**12000**	-	-	-
Antimony	mg/kg	**1.7**	**2.3**	-	**0.23 J**	-	-	-
Arsenic	mg/kg	**49**	**15**	-	**12**	-	-	-
Barium	mg/kg	**320**	**210**	-	**93**	-	-	-
Beryllium	mg/kg	**5.8**	**1.2**	-	**0.69**	-	-	-
Cadmium	mg/kg	**0.31 J**	**0.77**	-	**0.24**	-	-	-
Calcium	mg/kg	**13000**	**4300**	-	**9400**	-	-	-
Chromium	mg/kg	**33**	**21**	-	**16**	-	-	-
Chromium III (trivalent)	mg/kg	**32**	**21**	-	**16**	-	-	-
Chromium VI (hexavalent)	mg/kg	**0.75 J**	**0.38 J**	-	1.4 U	-	-	-
Cobalt	mg/kg	**16**	**8.6**	-	**7.4**	-	-	-
Copper	mg/kg	**59**	**170**	-	**22**	-	-	-
Iron	mg/kg	**14000**	**24000**	-	**23000**	-	-	-
Lead	mg/kg	**34**	**190**	-	**16**	-	-	-
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-
Magnesium	mg/kg	**1000**	**2500**	-	**6600**	-	-	-
Manganese	mg/kg	**66**	**340**	-	**560**	-	-	-
Mercury	mg/kg	**0.42 J**	**0.057 J**	-	0.024 U	-	-	-
Nickel	mg/kg	**25**	**23**	-	**16**	-	-	-
Potassium	mg/kg	**1000**	**730**	-	**1100**	-	-	-
Selenium	mg/kg	**15**	**2.6**	-	**1.0 J**	-	-	-
Silver	mg/kg	**0.087 J**	**0.21**	-	**0.036 J**	-	-	-
Sodium	mg/kg	**810**	**950**	-	58 U	-	-	-
Thallium	mg/kg	**1.4**	**0.34**	-	**0.19 J**	-	-	-
Vanadium	mg/kg	**73**	**31**	-	**29**	-	-	-
Zinc	mg/kg	**31**	**390**	-	**76**	-	-	-

Table 12

Summary of Detections
Soil/Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH143-18**	**BH144-18**	**BH144-18**	**BH145-18**	**GP19-18**	**GP20-18**	**GP33-18**
Sample ID:		**S-38443-012318-JC-062**	**S-38443-012218-JC-057**	**S-38443-012218-JC-057**	**S-38443-012218-JC-059**	**S-38443-012418-JC-063**	**S-38443-012218-JC-060**	**S-38443-012218-JC-058**
Sample Date:		**1/23/2018**	**1/22/2018**	**1/22/2018**	**1/22/2018**	**1/24/2018**	**1/22/2018**	**1/22/2018**
Sample Depth:		**10-12 ft BGS**	**14.5-16.5 ft BGS**	**15.5-16.5 ft BGS**	**9-11 ft BGS**	**11-12 ft bgs**	**11-12 ft bgs**	**17.5-18.5 ft bgs**
		Duplicate						
Parameters	**Units**							
PCBs								
Aroclor-1232 (PCB-1232)	ug/kg	330 U	28 U	-	26 U	-	-	-
Aroclor-1242 (PCB-1242)	ug/kg	270 U	23 U	-	22 U	-	-	-
Aroclor-1248 (PCB-1248)	ug/kg	340 U	29 U	-	28 U	-	-	-
Aroclor-1254 (PCB-1254)	ug/kg	330 U	28 U	-	26 U	-	-	-
Aroclor-1260 (PCB-1260)	ug/kg	310 U	27 U	-	25 U	-	-	-
Pesticides								
4,4'-DDD	ug/kg	4.6 UJ	4.0 U	-	3.9 U	-	-	-
4,4'-DDE	ug/kg	1.7 U	1.5 U	-	1.4 U	-	-	-
4,4'-DDT	ug/kg	1.9 U	1.7 U	-	1.6 U	-	-	-
Dieldrin	ug/kg	1.3 U	1.1 U	-	1.1 U	-	-	-
Endrin	ug/kg	1.9 U	1.7 U	-	1.6 U	-	-	-
Endrin aldehyde	ug/kg	130 U	110 U	-	2.1 U	-	-	-
Heptachlor epoxide	ug/kg	3.3 U	2.9 U	-	2.8 U	-	-	-
Methoxychlor	ug/kg	1.7 U	1.5 U	-	1.4 U	-	-	-
Petroleum Products								
Total Petroleum Hydrocarbons - Extractable (DRO)	ug/kg	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons - Purgeable (GRO)	ug/kg	-	-	-	-	-	-	-
Dioxin/Furans								
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	**3.5 J**	**1.3 J**	-	**1.5 J**	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	**81 J**	**4.9 J**	-	**34**	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	**3.4 J**	**1.4 J**	-	**4.3 J**	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	**7.2 J**	0.23 UJ	-	**16**	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	0.30 UJ	0.12 UJ	-	0.11 U	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	0.24 UJ	0.13 UJ	-	**1.5 J**	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	0.019 UJ	0.27 UJ	-	**0.43 J**	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	0.22 UJ	**0.51 J**	-	**2.0 J**	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	0.021 UJ	0.28 UJ	-	**2.7 J**	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	0.019 UJ	0.26 UJ	-	**3.3 J**	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	0.16 UJ	0.22 UJ	-	**0.71 J**	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	0.46 UJ	0.33 U	-	**1.0 J**	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	0.22 UJ	0.13 UJ	-	**1.5 J**	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	0.13 UJ	0.18 UJ	-	**1.8 J**	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	0.37 U	0.36 U	-	0.29 U	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	0.58 U	0.62 U	-	0.34 U	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	**6.0 J**	**1.4 J**	-	**7.1 J**	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	**14 J**	0.23 U	-	**26 J**	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	**1.3 J**	**2.7 J**	-	**54 J**	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	**1.6 J**	0.28 U	-	**24 J**	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	**3.6 J**	**4.4 J**	-	**120 J**	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	0.46 U	0.33 U	-	**5.0 J**	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	**3.5 J**	**7.2 J**	-	**200 J**	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	0.58 U	0.62 U	-	**2.1 J**	-	-	-

Table 12

Summary of Detections
Soil/Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH143-18**	**BH144-18**	**BH144-18**	**BH145-18**	**GP19-18**	**GP20-18**	**GP33-18**
Sample ID:		**S-38443-012318-JC-062**	**S-38443-012218-JC-057**	**S-38443-012218-JC-057**	**S-38443-012218-JC-059**	**S-38443-012418-JC-063**	**S-38443-012218-JC-060**	**S-38443-012218-JC-058**
Sample Date:		**1/23/2018**	**1/22/2018**	**1/22/2018**	**1/22/2018**	**1/24/2018**	**1/22/2018**	**1/22/2018**
Sample Depth:		**10-12 ft BGS**	**14.5-16.5 ft BGS**	**15.5-16.5 ft BGS**	**9-11 ft BGS**	**11-12 ft bgs**	**11-12 ft bgs**	**17.5-18.5 ft bgs**
		Duplicate						
Parameters	**Units**							
Asbestos								
Chrysotile asbestos	%	-	-	-	-	-	-	-
Geotechnical								
Coarse sand	%	-	-	-	-	**3.7**	**15.2**	**11.8**
Fine sand	%	-	-	-	-	**11.4**	**8.0**	**10.4**
Fines	%	-	-	-	-	**35.3**	**11.7**	**9.3**
Gravel	%	-	-	-	-	**43.5**	**42.1**	**54.6**
Medium sand	%	-	-	-	-	**6.1**	**23.0**	**13.9**
Sand	%	-	-	-	-	**21.2**	**46.2**	**36.1**
Sieve, #4	% passed	-	-	-	-	**56.5**	**57.9**	**45.4**
Sieve, #10	% passed	-	-	-	-	**52.8**	**42.7**	**33.6**
Sieve, #20	% passed	-	-	-	-	**49.6**	**30.3**	**26.2**
Sieve, #40	% passed	-	-	-	-	**46.7**	**19.7**	**19.7**
Sieve, #60	% passed	-	-	-	-	**43.7**	**15.6**	**14.9**
Sieve, #80	% passed	-	-	-	-	**41.6**	**14.3**	**12.7**
Sieve, #100	% passed	-	-	-	-	**40.3**	**13.6**	**11.7**
Sieve, #200	% passed	-	-	-	-	**35.3**	**11.7**	**9.3**
Sieve, 0.375 inch	% passed	-	-	-	-	**60.4**	**75.0**	**61.7**
Sieve, 0.75 inch	% passed	-	-	-	-	**67.2**	**94.0**	**84.0**
Sieve, 1 inch	% passed	-	-	-	-	**67.2**	**100.0**	**100.0**
Sieve, 1.5 inch	% passed	-	-	-	-	**100.0**	**100.0**	**100.0**
Sieve, 2 inch	% passed	-	-	-	-	**100.0**	**100.0**	**100.0**
Sieve, 3 inch	% passed	-	-	-	-	**100.0**	**100.0**	**100.0**
General Chemistry								
Cyanide (total)	mg/kg	**0.40 J**	0.16 U	-	0.12 U	-	-	-
Fraction organic carbon (FOC)	%	-	-	-	-	**2.9**	**0.2**	**0.3**
Total solids	%	-	-	-	-	-	-	-

Notes
< - Less than reported value.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 12

Summary of Detections
Soil/Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**MW-219**	**SS-125**	**SS-130**	**SS-130**	**SS-131**	**SS-132**	**SS-132**
Sample ID:		**S-38443-120409-DR-001**	**SS-38443-102918-JC-125**	**SS-38443-102918-JC-130**	**SS-38443-102918-JC-114**	**SS-38443-102918-JC-131**	**S-38443-110817-BW-031**	**S-38443-110817-BW-032**
Sample Date:		**12/4/2009**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**11/8/2017**	**11/8/2017**
Sample Depth:		**24-26 ft BGS**	**0-2 ft BGS**	**0.25-2.25 ft BGS**	**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0.7-2.7 ft BGS**	**0.7-2.7 ft BGS**
					Duplicate			**Duplicate**
Parameters	**Units**							
Volatiles								
1,1-Dichloroethane	ug/kg	750 U	-	0.68 U	0.69 U	15 U	76 U	47 U
1,2,4-Trichlorobenzene	ug/kg	**38 J**	-	0.56 U	0.57 U	220 U	64 U	40 U
1,2-Dichlorobenzene	ug/kg	**57 J**	-	1.1 U	1.1 U	34 U	44 U	27 U
1,3-Dichlorobenzene	ug/kg	750 U	-	0.80 U	0.81 U	34 U	94 U	58 U
1,4-Dichlorobenzene	ug/kg	750 U	-	0.86 U	0.87 U	28 U	67 U	41 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	3000 U	-	**10 J**	**8.3 J**	260 U	120 U	**85 J**
Acetone	ug/kg	3000 U	-	21 U	21 U	400 U	240 U	150 U
Benzene	ug/kg	750 U	-	0.68 U	0.69 U	13 U	59 U	37 U
Carbon disulfide	ug/kg	750 U	-	1.1 U	1.2 U	180 U	44 U	27 U
Chlorobenzene	ug/kg	**51 J**	-	0.89 U	0.91 U	57 U	74 U	46 U
cis-1,2-Dichloroethene	ug/kg	750 U	-	0.64 U	0.64 U	15 U	**270 J**	**340 J**
Cyclohexane	ug/kg	**56 J**	-	1.3 U	1.4 U	270 U	74 U	**46 J**
Ethylbenzene	ug/kg	**44 J**	-	1.0 U	1.0 U	20 U	86 U	53 U
Isopropyl benzene	ug/kg	**1800**	-	0.81 U	0.82 U	62 U	84 U	52 U
Methyl cyclohexane	ug/kg	**2800**	-	1.2 U	1.2 U	110 U	**160 J**	**160 J**
Methylene chloride	ug/kg	750 U	-	12 U	12 U	630 U	**470 J**	**280 J**
Tetrachloroethene	ug/kg	750 U	-	0.71 U	0.72 U	**76 J**	52 U	32 U
Toluene	ug/kg	750 U	-	0.75 U	0.76 U	74 U	**90 J**	**110 J**
trans-1,2-Dichloroethene	ug/kg	750 U	-	0.45 U	0.46 U	25 U	86 U	53 U
Trichloroethene	ug/kg	750 U	-	0.62 U	0.63 U	**850**	**3200**	**3600**
Vinyl chloride	ug/kg	750 U	-	0.82 U	0.83 U	16 U	42 U	26 U
Xylenes (total)	ug/kg	**950 J**	-	1.5 U	1.6 U	38 U	69 U	**140 J**
Semi-Volatiles								
2,4-Dimethylphenol	ug/kg	1600 U	-	46 U	48 U	41 U	420 U	140 U
2-Methylnaphthalene	ug/kg	**660**	-	**14 J**	**14 J**	**6.7 J**	**380**	**310**
2-Methylphenol	ug/kg	2100 U	-	36 U	37 U	32 U	230 U	79 U
3&4-Methylphenol	ug/kg	-	-	33 U	35 U	30 U	420 U	140 U
3,3'-Dichlorobenzidine	ug/kg	1100 U	-	50 U	51 U	45 U	380 U	130 U
Acenaphthene	ug/kg	71 U	-	**12 J**	**23**	**19**	**1400 J**	**360 J**
Acenaphthylene	ug/kg	71 U	-	**6.5 J**	4.8 U	4.2 U	**97 J**	**65**
Acetophenone	ug/kg	1100 U	-	13 U	13 U	11 U	190 U	66 U
Anthracene	ug/kg	71 U	-	**32**	**94**	**70**	**3600 J**	**1100 J**
Benzaldehyde	ug/kg	1100 U	-	27 U	27 U	24 U	250 U	86 U
Benzo(a)anthracene	ug/kg	71 U	-	**120**	**150**	**180**	**9600**	**4500**
Benzo(a)pyrene	ug/kg	71 U	-	**120**	**110**	**140**	**8500**	**4200**
Benzo(b)fluoranthene	ug/kg	71 U	-	**180**	**150**	**190**	**12000**	**5700**
Benzo(g,h,i)perylene	ug/kg	71 U	-	**99**	**78**	**100**	**6100**	**3400**
Benzo(k)fluoranthene	ug/kg	71 U	-	**70**	**71**	**89**	**4200**	**2200**
Biphenyl (1,1-Biphenyl)	ug/kg	530 U	-	20 U	20 U	18 U	74 U	**86 J**
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	**240 J**	-	59 U	61 U	53 U	400 U	**230 J**
Carbazole	ug/kg	530 U	-	**25 J**	**45 J**	**33 J**	**1500**	**550**
Chrysene	ug/kg	71 U	-	**140**	**140**	**170**	**9300**	**4600**
Dibenz(a,h)anthracene	ug/kg	71 U	-	8.0 U	**18**	**29**	**1600**	**860**
Dibenzofuran	ug/kg	530 U	-	15 U	**28 J**	**14 J**	**780 J**	**260 J**
Diethyl phthalate	ug/kg	530 U	-	36 U	37 U	**380**	**350 J**	110 U
Di-n-butylphthalate (DBP)	ug/kg	530 U	-	25 U	26 U	23 U	**360 J**	**180 J**

Table 12

Summary of Detections
Soil/Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**MW-219**	**SS-125**	**SS-130**	**SS-130**	**SS-131**	**SS-132**	**SS-132**
Sample ID:		**S-38443-120409-DR-001**	**SS-38443-102918-JC-125**	**SS-38443-102918-JC-130**	**SS-38443-102918-JC-114**	**SS-38443-102918-JC-131**	**S-38443-110817-BW-031**	**S-38443-110817-BW-032**
Sample Date:		**12/4/2009**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**11/8/2017**	**11/8/2017**
Sample Depth:		**24-26 ft BGS**	**0-2 ft BGS**	**0.25-2.25 ft BGS**	**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0.7-2.7 ft BGS**	**0.7-2.7 ft BGS**
					Duplicate			**Duplicate**
Parameters	**Units**							
Fluoranthene	ug/kg	**130**	-	**270**	**400**	**390**	**21000**	**9200**
Fluorene	ug/kg	71 U	-	**12 J**	**52 J**	**21**	**1300 J**	**350 J**
Indeno(1,2,3-cd)pyrene	ug/kg	71 U	-	**92**	**67**	**84**	**5300**	**3000**
Naphthalene	ug/kg	**600**	-	**15 J**	**14 J**	**9.2 J**	**330**	**300**
Phenanthrene	ug/kg	**210**	-	**160**	**380**	**260**	**13000**	**4800**
Phenol	ug/kg	530 U	-	9.2 U	9.5 U	8.3 U	150 U	52 U
Pyrene	ug/kg	**100**	-	**260**	**280**	**310**	**18000**	**7700**
Metals								
Aluminum	mg/kg	-	-	**12000**	**13000**	**2800**	**7100**	**6600**
Antimony	mg/kg	-	-	**0.42 J**	**0.24 J**	**0.49**	**8.1 J**	**5.7 J**
Arsenic	mg/kg	**5.5 J**	-	**9.5**	**12**	**4.7**	**26**	**27**
Barium	mg/kg	-	-	**94**	**83**	**160**	**990**	**970**
Beryllium	mg/kg	-	-	**0.92**	**0.95**	**0.28**	**0.86**	**0.86**
Cadmium	mg/kg	-	-	**0.60**	**0.20**	**0.28**	**5.2**	**4.4**
Calcium	mg/kg	-	-	**8400**	**47000**	**130000**	**71000**	**82000**
Chromium	mg/kg	-	-	**21**	**18**	**9.6**	**48**	**36**
Chromium III (trivalent)	mg/kg	-	-	**20**	**18**	**9.6**	-	-
Chromium VI (hexavalent)	mg/kg	-	-	**0.74 J**	0.29 U	0.25 U	-	-
Cobalt	mg/kg	-	-	**8.5**	**8.6**	**3.2**	**13**	**10**
Copper	mg/kg	-	-	**41**	**20**	**25**	**870**	**730**
Iron	mg/kg	-	-	**21000**	**25000**	**8800**	**40000**	**25000**
Lead	mg/kg	**7.0 J**	-	**170**	**25**	**20**	**2600 J**	**840 J**
Lead - coarse fraction	mg/kg	-	-	-	-	**18**	-	-
Lead - fine fraction	mg/kg	-	-	-	-	**26**	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	**19**	-	-
Magnesium	mg/kg	-	-	**5400**	**19000**	**54000**	**25000**	**32000**
Manganese	mg/kg	-	-	**360**	**450**	**390**	**1100**	**1100**
Mercury	mg/kg	-	-	**6.1**	**0.30**	0.019 U	**0.28**	**0.24**
Nickel	mg/kg	-	-	**18**	**19**	**9.1**	**61**	**49**
Potassium	mg/kg	-	-	**1000**	**950**	**400**	**790**	**740**
Selenium	mg/kg	-	-	**0.79 J**	**1.1**	**0.38 J**	**1.3**	**1.2**
Silver	mg/kg	-	-	**0.22**	**0.043 J**	**0.059 J**	**1.9**	**1.7**
Sodium	mg/kg	-	-	**64 J**	**89 J**	**150 J**	**310**	**270**
Thallium	mg/kg	-	-	**0.25**	**0.29**	**0.075 J**	**0.36 J**	**0.33 J**
Vanadium	mg/kg	-	-	**29**	**31**	**12**	**19**	**19**
Zinc	mg/kg	-	-	**92**	**58**	**61**	**1500**	**1400**

Table 12

Summary of Detections
Soil/Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**MW-219**	**SS-125**	**SS-130**	**SS-130**	**SS-131**	**SS-132**	**SS-132**
Sample ID:		**S-38443-120409-DR-001**	**SS-38443-102918-JC-125**	**SS-38443-102918-JC-130**	**SS-38443-102918-JC-114**	**SS-38443-102918-JC-131**	**S-38443-110817-BW-031**	**S-38443-110817-BW-032**
Sample Date:		**12/4/2009**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**11/8/2017**	**11/8/2017**
Sample Depth:		**24-26 ft BGS**	**0-2 ft BGS**	**0.25-2.25 ft BGS**	**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0.7-2.7 ft BGS**	**0.7-2.7 ft BGS**
					Duplicate			**Duplicate**
Parameters	**Units**							
PCBs								
Aroclor-1232 (PCB-1232)	ug/kg	35 U	-	27 U	28 U	24 U	33 U	17 U
Aroclor-1242 (PCB-1242)	ug/kg	35 U	-	23 U	23 U	20 U	42 U	21 U
Aroclor-1248 (PCB-1248)	ug/kg	35 U	-	29 U	29 U	25 U	**1900 J**	**1300 J**
Aroclor-1254 (PCB-1254)	ug/kg	**40**	-	27 U	**86**	24 U	29 U	15 U
Aroclor-1260 (PCB-1260)	ug/kg	35 U	-	26 U	27 U	23 U	**1100 J**	**440 J**
Pesticides								
4,4'-DDD	ug/kg	1.8 U	-	1.8 U	**2.0 NJ**	1.6 U	35 U	35 U
4,4'-DDE	ug/kg	**1.6 J**	-	1.8 U	**2.3 J**	1.6 U	13 U	13 U
4,4'-DDT	ug/kg	1.8 U	-	1.3 U	**6.2 J**	1.2 U	15 U	15 U
Dieldrin	ug/kg	1.8 U	-	1.3 U	1.3 U	1.2 U	9.4 U	9.6 U
Endrin	ug/kg	1.8 U	-	2.3 U	2.3 U	2.0 U	**17 NJ**	15 U
Endrin aldehyde	ug/kg	1.8 U	-	**2.1 NJ**	1.6 U	1.4 U	**36 J**	**24 J**
Heptachlor epoxide	ug/kg	1.8 U	-	1.7 U	1.7 U	1.5 U	25 U	26 U
Methoxychlor	ug/kg	3.5 U	-	7.8 U	8.0 UJ	6.9 U	13 U	**20 NJ**
Petroleum Products								
Total Petroleum Hydrocarbons - Extractable (DRO)	ug/kg	**1400000**	-	-	-	-	-	-
Total Petroleum Hydrocarbons - Purgeable (GRO)	ug/kg	**410000 J**	-	-	-	-	-	-
Dioxin/Furans								
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-

Table 12

Summary of Detections
Soil/Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**MW-219**	**SS-125**	**SS-130**	**SS-130**	**SS-131**	**SS-132**	**SS-132**
Sample ID:		**S-38443-120409-DR-001**	**SS-38443-102918-JC-125**	**SS-38443-102918-JC-130**	**SS-38443-102918-JC-114**	**SS-38443-102918-JC-131**	**S-38443-110817-BW-031**	**S-38443-110817-BW-032**
Sample Date:		**12/4/2009**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**11/8/2017**	**11/8/2017**
Sample Depth:		**24-26 ft BGS**	**0-2 ft BGS**	**0.25-2.25 ft BGS**	**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0.7-2.7 ft BGS**	**0.7-2.7 ft BGS**
					Duplicate			**Duplicate**
Parameters	**Units**							
Asbestos								
Chrysotile asbestos	%	-	-	-	-	-	-	-
Geotechnical								
Coarse sand	%	-	-	-	-	-	-	-
Fine sand	%	-	-	-	-	-	-	-
Fines	%	-	-	-	-	-	-	-
Gravel	%	-	-	-	-	-	-	-
Medium sand	%	-	-	-	-	-	-	-
Sand	%	-	-	-	-	-	-	-
Sieve, #4	% passed	-	-	-	-	-	-	-
Sieve, #10	% passed	-	-	-	-	-	-	-
Sieve, #20	% passed	-	-	-	-	-	-	-
Sieve, #40	% passed	-	-	-	-	-	-	-
Sieve, #60	% passed	-	-	-	-	-	-	-
Sieve, #80	% passed	-	-	-	-	-	-	-
Sieve, #100	% passed	-	-	-	-	-	-	-
Sieve, #200	% passed	-	-	-	-	-	-	-
Sieve, 0.375 inch	% passed	-	-	-	-	-	-	-
Sieve, 0.75 inch	% passed	-	-	-	-	-	-	-
Sieve, 1 inch	% passed	-	-	-	-	-	-	-
Sieve, 1.5 inch	% passed	-	-	-	-	-	-	-
Sieve, 2 inch	% passed	-	-	-	-	-	-	-
Sieve, 3 inch	% passed	-	-	-	-	-	-	-
General Chemistry								
Cyanide (total)	mg/kg	-	-	0.23 U	0.24 U	0.20 U	0.49 U	0.49 U
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-
Total solids	%	**94.0**	-	-	-	-	-	-

Notes
< - Less than reported value.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 12

Summary of Detections
Soil/Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-133**	**SS-134**	**SS-135**	**SS-136**	**SS-137**	**SS-141**	**SS-143**
Sample ID:		**SS-38443-102918-JC-133**	**SS-38443-102918-JC-134**	**SS-38443-102918-JC-135**	**SS-38443-102918-JC-136**	**SS-38443-102918-JC-137**	**SS-38443-102918-JC-141**	**SS-38443-102918-JC-143**
Sample Date:		**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**
Sample Depth:		**0.5-2.5 ft BGS**	**0.92-2.92 ft BGS**	**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0.17-2.17 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**							
Volatiles								
1,1-Dichloroethane	ug/kg	R	**5.3 J**	12 U	15 U	0.99 U	0.91 U	0.69 U
1,2,4-Trichlorobenzene	ug/kg	R	R	170 U	230 U	R	R	0.57 U
1,2-Dichlorobenzene	ug/kg	R	R	27 U	36 U	R	R	1.1 U
1,3-Dichlorobenzene	ug/kg	R	**2.1 J**	27 U	36 U	R	R	0.81 U
1,4-Dichlorobenzene	ug/kg	R	R	22 U	29 U	R	R	0.88 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	**18 J**	**46 J**	200 U	270 U	**17 J**	**14 J**	**12 J**
Acetone	ug/kg	R	R	320 U	420 U	30 U	28 U	21 U
Benzene	ug/kg	R	**21 J**	**14 J**	14 U	**1.3 J**	0.92 U	0.70 U
Carbon disulfide	ug/kg	R	R	140 U	180 U	1.7 U	1.5 U	1.2 U
Chlorobenzene	ug/kg	R	R	45 U	60 U	1.3 U	1.2 U	0.91 U
cis-1,2-Dichloroethene	ug/kg	R	R	12 U	**690**	0.93 U	0.85 U	0.65 U
Cyclohexane	ug/kg	R	R	210 U	280 U	2.0 U	1.8 U	1.4 U
Ethylbenzene	ug/kg	R	R	16 U	33 U	1.5 U	1.4 U	1.0 U
Isopropyl benzene	ug/kg	R	R	49 U	**85 J**	1.2 U	1.1 U	0.83 U
Methyl cyclohexane	ug/kg	R	R	85 U	110 U	1.7 U	1.6 U	1.2 U
Methylene chloride	ug/kg	R	R	500 U	650 U	17 U	16 U	12 U
Tetrachloroethene	ug/kg	**1.2 J**	R	**99 J**	26 U	**4.0 J**	**2.6 J**	0.73 U
Toluene	ug/kg	R	R	67 U	110 U	**1.5 J**	1.0 U	0.77 U
trans-1,2-Dichloroethene	ug/kg	R	R	19 U	**56 J**	0.66 U	0.61 U	0.46 U
Trichloroethene	ug/kg	**3.7 J**	R	**3000**	**700**	**8.1**	**3.7 J**	0.63 U
Vinyl chloride	ug/kg	R	R	13 U	**54 J**	1.2 U	1.1 U	0.83 U
Xylenes (total)	ug/kg	R	R	30 U	**230 J**	2.3 U	2.1 U	1.6 U
Semi-Volatiles								
2,4-Dimethylphenol	ug/kg	42 U	54 U	46 U	620 U	50 U	87 U	42 U
2-Methylnaphthalene	ug/kg	**730**	2.7 U	**69**	**120 J**	**87**	**160**	**14 J**
2-Methylphenol	ug/kg	32 U	42 U	36 U	480 U	39 U	67 U	33 U
3&4-Methylphenol	ug/kg	30 U	39 U	33 U	450 U	36 U	63 U	31 U
3,3'-Dichlorobenzidine	ug/kg	45 U	58 U	49 U	670 U	54 U	93 U	45 U
Acenaphthene	ug/kg	3.0 U	3.9 U	**4.9 J**	44 U	3.6 U	**19 J**	3.0 U
Acenaphthylene	ug/kg	**32**	5.4 U	**5.8 J**	62 U	**6.8 J**	**91**	**5.7 J**
Acetophenone	ug/kg	11 U	15 U	13 U	170 U	**110 J**	24 U	12 U
Anthracene	ug/kg	**43**	3.3 U	**11 J**	37 U	**4.8 J**	**110**	**7.4 J**
Benzaldehyde	ug/kg	24 U	31 U	26 U	360 U	29 U	50 U	24 U
Benzo(a)anthracene	ug/kg	**200**	4.6 U	**79**	**260**	**36**	**600**	**34**
Benzo(a)pyrene	ug/kg	**220**	13 U	**88**	**320**	**41**	**690**	**34**
Benzo(b)fluoranthene	ug/kg	**400**	8.8 U	**160**	**370**	**83**	**1100**	**57**
Benzo(g,h,i)perylene	ug/kg	**260**	9.6 U	**77**	**220 J**	**61**	**570**	**46**
Benzo(k)fluoranthene	ug/kg	**120**	9.4 U	**41**	**180 J**	**21**	**340**	**17**
Biphenyl (1,1-Biphenyl)	ug/kg	**49 J**	23 U	19 U	260 U	21 U	37 U	18 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	53 U	69 U	58 U	**17000**	64 U	**110 J**	**140**
Carbazole	ug/kg	20 U	26 U	22 U	290 U	24 U	**50 J**	20 U
Chrysene	ug/kg	**270**	2.0 U	**110**	**360**	**78**	**730**	**44**
Dibenz(a,h)anthracene	ug/kg	**70**	9.4 U	**24**	110 U	8.7 U	**140**	7.3 U
Dibenzofuran	ug/kg	**180**	18 U	**20 J**	200 U	**16 J**	**50 J**	14 U
Diethyl phthalate	ug/kg	32 U	42 U	36 U	480 U	39 U	67 U	33 U
Di-n-butylphthalate (DBP)	ug/kg	**27 J**	30 U	25 U	340 U	**28 J**	48 U	23 U

Table 12

Summary of Detections
Soil/Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-133**	**SS-134**	**SS-135**	**SS-136**	**SS-137**	**SS-141**	**SS-143**
Sample ID:		**SS-38443-102918-JC-133**	**SS-38443-102918-JC-134**	**SS-38443-102918-JC-135**	**SS-38443-102918-JC-136**	**SS-38443-102918-JC-137**	**SS-38443-102918-JC-141**	**SS-38443-102918-JC-143**
Sample Date:		**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**
Sample Depth:		**0.5-2.5 ft BGS**	**0.92-2.92 ft BGS**	**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0.17-2.17 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**							
Fluoranthene	ug/kg	**270**	6.0 U	**190**	**390**	**51**	**1000**	**66**
Fluorene	ug/kg	**16**	3.7 U	**4.8 J**	43 U	3.4 U	**20 J**	2.9 U
Indeno(1,2,3-cd)pyrene	ug/kg	**200**	10 U	**69**	**240**	**38**	**460**	**29**
Naphthalene	ug/kg	**400**	3.3 U	**41**	**130 J**	**78**	**120**	**9.8 J**
Phenanthrene	ug/kg	**400**	3.0 U	**140**	**250**	**77**	**480**	**35**
Phenol	ug/kg	8.3 U	11 U	9.2 U	120 U	10 U	17 U	8.4 U
Pyrene	ug/kg	**220**	2.9 U	**160**	**330**	**39**	**840**	**57**
Metals								
Aluminum	mg/kg	**6400**	**7200**	**5000**	**10000**	**8600**	**6400**	**4700**
Antimony	mg/kg	**3.2**	**1.3**	**0.29 J**	**12**	**4.4**	**4.8**	**1.0**
Arsenic	mg/kg	**11**	**17**	**6.2**	**24**	**19**	**9.5**	**9.2**
Barium	mg/kg	**1200**	**180**	**54**	**2900**	**720**	**760**	**100**
Beryllium	mg/kg	**0.81**	**3.9**	**0.38**	**1.0**	**2.2**	**0.63**	**0.30**
Cadmium	mg/kg	**3.7**	**1.2**	**0.27**	**16**	**3.5**	**3.8**	**1.4**
Calcium	mg/kg	**54000**	**1500**	**100000**	**79000**	**17000**	**100000**	**120000**
Chromium	mg/kg	**33**	**20**	**10**	**210**	**65**	**37**	**13**
Chromium III (trivalent)	mg/kg	**33**	**19**	**9.0**	**210**	**65**	**37**	**12**
Chromium VI (hexavalent)	mg/kg	**0.86**	**0.77 J**	**0.99**	1.5 U	1.5 U	1.3 U	**0.90**
Cobalt	mg/kg	**8.4**	**11**	**4.2**	**29**	**24**	**9.0**	**3.9**
Copper	mg/kg	**490**	**36**	**17**	**2900**	**730**	**620**	**130**
Iron	mg/kg	**28000**	**9700**	**12000**	**100000**	**110000**	**26000**	**15000**
Lead	mg/kg	**510**	**15**	**21**	**2200**	**490**	**720**	**220**
Lead - coarse fraction	mg/kg	-	-	-	**2000**	-	**1600**	-
Lead - fine fraction	mg/kg	-	-	-	**2700**	-	**2000**	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	**2200**	-	**1700**	-
Magnesium	mg/kg	**16000**	**380**	**42000**	**24000**	**3200**	**42000**	**37000**
Manganese	mg/kg	**340**	**34**	**320**	**820**	**670**	**450**	**350**
Mercury	mg/kg	**0.19**	**0.22**	**0.051 J**	**0.66**	**0.28**	**0.19**	**0.021 J**
Nickel	mg/kg	**56**	**41**	**10**	**150**	**94**	**79**	**16**
Potassium	mg/kg	**740**	**1100**	**630**	**1000**	**1300**	**640**	**950**
Selenium	mg/kg	**0.93 J**	**4.4**	**0.47 J**	**2.0**	**2.3**	**0.80 J**	**0.37 J**
Silver	mg/kg	**1.4**	**0.14 J**	**0.060 J**	**6.3**	**0.76**	**8.2**	**0.14 J**
Sodium	mg/kg	**130 J**	**190 J**	**130 J**	**560**	**390**	**210**	**220**
Thallium	mg/kg	**0.26**	**0.65**	**0.13 J**	**0.22**	**0.35**	**0.21**	**0.096 J**
Vanadium	mg/kg	**18**	**29**	**16**	**50**	**29**	**17**	**10**
Zinc	mg/kg	**830**	**500**	**45**	**5600**	**1600**	**920**	**890**

Table 12

Summary of Detections
Soil/Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-133**	**SS-134**	**SS-135**	**SS-136**	**SS-137**	**SS-141**	**SS-143**
Sample ID:		**SS-38443-102918-JC-133**	**SS-38443-102918-JC-134**	**SS-38443-102918-JC-135**	**SS-38443-102918-JC-136**	**SS-38443-102918-JC-137**	**SS-38443-102918-JC-141**	**SS-38443-102918-JC-143**
Sample Date:		**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**
Sample Depth:		**0.5-2.5 ft BGS**	**0.92-2.92 ft BGS**	**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0.17-2.17 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**							
PCBs								
Aroclor-1232 (PCB-1232)	ug/kg	23 U	32 U	26 U	140 U	30 U	**1100**	24 U
Aroclor-1242 (PCB-1242)	ug/kg	19 U	26 U	22 U	**1100**	25 U	200 U	20 U
Aroclor-1248 (PCB-1248)	ug/kg	24 U	33 U	28 U	150 U	32 U	260 U	25 U
Aroclor-1254 (PCB-1254)	ug/kg	**150**	32 U	26 U	**1800**	30 U	**410 J**	24 U
Aroclor-1260 (PCB-1260)	ug/kg	22 U	30 U	**170**	140 U	29 U	240 U	**44 J**
Pesticides								
4,4'-DDD	ug/kg	7.5 U	10 U	8.5 U	9.2 U	97 U	80 U	31 U
4,4'-DDE	ug/kg	7.7 U	10 U	8.7 U	**20 NJ**	99 U	81 U	32 U
4,4'-DDT	ug/kg	5.7 U	7.8 U	6.5 U	7.0 U	74 U	61 U	24 U
Dieldrin	ug/kg	5.6 U	7.6 U	6.3 U	**14 NJ**	72 U	59 U	23 U
Endrin	ug/kg	9.6 U	13 U	11 U	12 U	120 U	100 U	40 U
Endrin aldehyde	ug/kg	6.7 U	9.0 U	7.5 U	33 U	86 U	70 U	28 U
Heptachlor epoxide	ug/kg	7.3 U	9.9 U	8.3 U	**9.6 NJ**	95 U	77 U	30 U
Methoxychlor	ug/kg	33 U	45 U	38 U	41 UJ	430 U	350 U	140 U
Petroleum Products								
Total Petroleum Hydrocarbons - Extractable (DRO)	ug/kg	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons - Purgeable (GRO)	ug/kg	-	-	-	-	-	-	-
Dioxin/Furans								
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-

Table 12

Summary of Detections
Soil/Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-133**	**SS-134**	**SS-135**	**SS-136**	**SS-137**	**SS-141**	**SS-143**
Sample ID:		**SS-38443-102918-JC-133**	**SS-38443-102918-JC-134**	**SS-38443-102918-JC-135**	**SS-38443-102918-JC-136**	**SS-38443-102918-JC-137**	**SS-38443-102918-JC-141**	**SS-38443-102918-JC-143**
Sample Date:		**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**
Sample Depth:		**0.5-2.5 ft BGS**	**0.92-2.92 ft BGS**	**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0.17-2.17 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**							
Asbestos								
Chrysotile asbestos	%	-	-	-	-	-	-	-
Geotechnical								
Coarse sand	%	-	-	-	-	-	-	-
Fine sand	%	-	-	-	-	-	-	-
Fines	%	-	-	-	-	-	-	-
Gravel	%	-	-	-	-	-	-	-
Medium sand	%	-	-	-	-	-	-	-
Sand	%	-	-	-	-	-	-	-
Sieve, #4	% passed	-	-	-	-	-	-	-
Sieve, #10	% passed	-	-	-	-	-	-	-
Sieve, #20	% passed	-	-	-	-	-	-	-
Sieve, #40	% passed	-	-	-	-	-	-	-
Sieve, #60	% passed	-	-	-	-	-	-	-
Sieve, #80	% passed	-	-	-	-	-	-	-
Sieve, #100	% passed	-	-	-	-	-	-	-
Sieve, #200	% passed	-	-	-	-	-	-	-
Sieve, 0.375 inch	% passed	-	-	-	-	-	-	-
Sieve, 0.75 inch	% passed	-	-	-	-	-	-	-
Sieve, 1 inch	% passed	-	-	-	-	-	-	-
Sieve, 1.5 inch	% passed	-	-	-	-	-	-	-
Sieve, 2 inch	% passed	-	-	-	-	-	-	-
Sieve, 3 inch	% passed	-	-	-	-	-	-	-
General Chemistry								
Cyanide (total)	mg/kg	0.21 U	2.8 U	0.22 U	**41**	**6.5**	**0.62**	0.20 U
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-

Notes
< - Less than reported value.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 12

Summary of Detections
Soil/Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-171-AS**	**SS-172-AS**	**SS-173-AS**	**TT-23**	**TT-23**	**TT-43**	**TT-43**
Sample ID:		**SS-38443-102918-JC-171**	**SS-38443-102918-JC-172**	**SS-38443-102918-JC-173**	**S-38443-100608-KMV-052**	**S-38443-100608-KMV-053**	**S-38443-110817-BW-033**	**TT-43**
Sample Date:		**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/6/2008**	**10/6/2008**	**11/8/2017**	**11/8/2017**
Sample Depth:		**0-0.5 ft BGS**	**0.17-0.67 ft BGS**	**0-0.5 ft BGS**	**7 ft BGS**	**18 ft BGS**	**6-8 ft BGS**	**8-10 ft BGS**
Parameters	**Units**							
Volatiles								
1,1-Dichloroethane	ug/kg	-	-	-	8.4 U	4.7 U	65 U	-
1,2,4-Trichlorobenzene	ug/kg	-	-	-	8.4 UJ	4.7 U	54 U	-
1,2-Dichlorobenzene	ug/kg	-	-	-	8.4 UJ	4.7 U	38 U	-
1,3-Dichlorobenzene	ug/kg	-	-	-	8.4 UJ	4.7 U	79 U	-
1,4-Dichlorobenzene	ug/kg	-	-	-	8.4 UJ	4.7 U	56 U	-
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	-	-	-	33 U	19 U	100 U	-
Acetone	ug/kg	-	-	-	33 U	19 U	200 U	-
Benzene	ug/kg	-	-	-	8.4 U	4.7 U	50 U	-
Carbon disulfide	ug/kg	-	-	-	8.4 U	4.7 U	38 U	-
Chlorobenzene	ug/kg	-	-	-	8.4 U	4.7 U	63 U	-
cis-1,2-Dichloroethene	ug/kg	-	-	-	**16**	4.7 U	**1000**	-
Cyclohexane	ug/kg	-	-	-	17 U	9.4 U	63 U	-
Ethylbenzene	ug/kg	-	-	-	8.4 U	4.7 U	73 U	-
Isopropyl benzene	ug/kg	-	-	-	8.4 U	4.7 U	71 U	-
Methyl cyclohexane	ug/kg	-	-	-	17 U	9.4 U	**84 J**	-
Methylene chloride	ug/kg	-	-	-	8.4 U	4.7 U	**560**	-
Tetrachloroethene	ug/kg	-	-	-	8.4 U	4.7 U	44 U	-
Toluene	ug/kg	-	-	-	8.4 U	4.7 U	**110 J**	-
trans-1,2-Dichloroethene	ug/kg	-	-	-	8.4 U	4.7 U	73 U	-
Trichloroethene	ug/kg	-	-	-	**31**	**0.62 J**	**5200**	-
Vinyl chloride	ug/kg	-	-	-	8.4 U	4.7 U	36 U	-
Xylenes (total)	ug/kg	-	-	-	17 U	**1.2 J**	**230 J**	-
Semi-Volatiles								
2,4-Dimethylphenol	ug/kg	-	-	-	220 U	160 U	280 U	-
2-Methylnaphthalene	ug/kg	-	-	-	9.9 U	7.2 U	**460**	-
2-Methylphenol	ug/kg	-	-	-	300 UJ	210 UJ	160 U	-
3&4-Methylphenol	ug/kg	-	-	-	-	-	280 U	-
3,3'-Dichlorobenzidine	ug/kg	-	-	-	150 U	110 U	250 U	-
Acenaphthene	ug/kg	-	-	-	9.9 U	7.2 U	**770**	-
Acenaphthylene	ug/kg	-	-	-	9.9 U	7.2 U	**95**	-
Acetophenone	ug/kg	-	-	-	150 U	110 U	130 U	-
Anthracene	ug/kg	-	-	-	9.9 U	7.2 U	**2000**	-
Benzaldehyde	ug/kg	-	-	-	150 U	110 U	170 U	-
Benzo(a)anthracene	ug/kg	-	-	-	9.9 U	7.2 U	**4900**	-
Benzo(a)pyrene	ug/kg	-	-	-	9.9 U	7.2 U	**4200**	-
Benzo(b)fluoranthene	ug/kg	-	-	-	9.9 U	7.2 U	**6100**	-
Benzo(g,h,i)perylene	ug/kg	-	-	-	9.9 U	7.2 U	**3300**	-
Benzo(k)fluoranthene	ug/kg	-	-	-	9.9 U	7.2 U	**2100**	-
Biphenyl (1,1-Biphenyl)	ug/kg	-	-	-	74 U	54 U	49 U	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	-	-	-	74 U	54 U	**380 J**	-
Carbazole	ug/kg	-	-	-	74 U	54 U	**860**	-
Chrysene	ug/kg	-	-	-	9.9 U	7.2 U	**4800**	-
Dibenz(a,h)anthracene	ug/kg	-	-	-	9.9 U	7.2 U	**680**	-
Dibenzofuran	ug/kg	-	-	-	74 U	54 U	**600 J**	-
Diethyl phthalate	ug/kg	-	-	-	74 U	54 U	**430 J**	-
Di-n-butylphthalate (DBP)	ug/kg	-	-	-	74 U	54 U	**320 J**	-

Table 12

Summary of Detections
Soil/Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-171-AS**	**SS-172-AS**	**SS-173-AS**	**TT-23**	**TT-23**	**TT-43**	**TT-43**
Sample ID:		**SS-38443-102918-JC-171**	**SS-38443-102918-JC-172**	**SS-38443-102918-JC-173**	**S-38443-100608-KMV-052**	**S-38443-100608-KMV-053**	**S-38443-110817-BW-033**	**TT-43**
Sample Date:		**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/6/2008**	**10/6/2008**	**11/8/2017**	**11/8/2017**
Sample Depth:		**0-0.5 ft BGS**	**0.17-0.67 ft BGS**	**0-0.5 ft BGS**	**7 ft BGS**	**18 ft BGS**	**6-8 ft BGS**	**8-10 ft BGS**
Parameters	**Units**							
Fluoranthene	ug/kg	-	-	-	9.9 U	7.2 U	**12000**	-
Fluorene	ug/kg	-	-	-	9.9 U	7.2 U	**750**	-
Indeno(1,2,3-cd)pyrene	ug/kg	-	-	-	9.9 U	7.2 U	**2600**	-
Naphthalene	ug/kg	-	-	-	9.9 U	7.2 U	**470**	-
Phenanthrene	ug/kg	-	-	-	9.9 U	7.2 U	**7800**	-
Phenol	ug/kg	-	-	-	74 U	54 U	**220 J**	-
Pyrene	ug/kg	-	-	-	9.9 U	7.2 U	**9700**	-
Metals								
Aluminum	mg/kg	-	-	-	**21700**	**3450**	**7200**	-
Antimony	mg/kg	-	-	-	**70.1 J**	6.4 UJ	**38 J**	-
Arsenic	mg/kg	-	-	-	**20.1**	**5.3**	**15**	-
Barium	mg/kg	-	-	-	**3500**	**19.9 J**	**1100**	-
Beryllium	mg/kg	-	-	-	**0.60 J**	0.54 U	**1.1**	-
Cadmium	mg/kg	-	-	-	**3.3 J**	**0.22 J**	**5.6**	-
Calcium	mg/kg	-	-	-	**13500**	**53100**	**70000**	-
Chromium	mg/kg	-	-	-	**1080 J**	**7.8 J**	**52**	-
Chromium III (trivalent)	mg/kg	-	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-	-
Cobalt	mg/kg	-	-	-	**317**	**3.9 J**	**15**	-
Copper	mg/kg	-	-	-	**841 J**	**9.6 J**	**1000**	-
Iron	mg/kg	-	-	-	**23600**	**9260**	**27000**	-
Lead	mg/kg	-	-	-	**17700**	**4.3 J**	**2200**	-
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-
Magnesium	mg/kg	-	-	-	**3060**	**32800**	**32000**	-
Manganese	mg/kg	-	-	-	**412 J**	**297 J**	**480**	-
Mercury	mg/kg	-	-	-	**0.084 J**	0.11 U	**0.35**	-
Nickel	mg/kg	-	-	-	**45.5 J**	**11.2 J**	**60**	-
Potassium	mg/kg	-	-	-	**1680**	**560**	**800**	-
Selenium	mg/kg	-	-	-	**3.7 J**	26.8 U	**1.4**	-
Silver	mg/kg	-	-	-	**2.7**	1.1 U	**1.8**	-
Sodium	mg/kg	-	-	-	**2970**	536 U	**340**	-
Thallium	mg/kg	-	-	-	3.7 U	**0.20**	**0.31 J**	-
Vanadium	mg/kg	-	-	-	**42.4**	**10.5**	**21**	-
Zinc	mg/kg	-	-	-	**19600**	**33.4**	**1700**	-

Table 12

Summary of Detections
Soil/Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-171-AS**	**SS-172-AS**	**SS-173-AS**	**TT-23**	**TT-23**	**TT-43**	**TT-43**
Sample ID:		**SS-38443-102918-JC-171**	**SS-38443-102918-JC-172**	**SS-38443-102918-JC-173**	**S-38443-100608-KMV-052**	**S-38443-100608-KMV-053**	**S-38443-110817-BW-033**	**TT-43**
Sample Date:		**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/6/2008**	**10/6/2008**	**11/8/2017**	**11/8/2017**
Sample Depth:		**0-0.5 ft BGS**	**0.17-0.67 ft BGS**	**0-0.5 ft BGS**	**7 ft BGS**	**18 ft BGS**	**6-8 ft BGS**	**8-10 ft BGS**
Parameters	**Units**							
PCBs								
Aroclor-1232 (PCB-1232)	ug/kg	-	-	-	49 U	35 U	180 U	-
Aroclor-1242 (PCB-1242)	ug/kg	-	-	-	49 U	35 U	220 U	-
Aroclor-1248 (PCB-1248)	ug/kg	-	-	-	49 U	35 U	**8600**	-
Aroclor-1254 (PCB-1254)	ug/kg	-	-	-	49 UJ	35 UJ	160 U	-
Aroclor-1260 (PCB-1260)	ug/kg	-	-	-	49 UJ	35 UJ	**540 J**	-
Pesticides								
4,4'-DDD	ug/kg	-	-	-	13 U	9.1 U	74 U	-
4,4'-DDE	ug/kg	-	-	-	13 U	9.1 U	27 U	-
4,4'-DDT	ug/kg	-	-	-	13 UJ	9.1 UJ	**38 NJ**	-
Dieldrin	ug/kg	-	-	-	13 U	9.1 U	20 U	-
Endrin	ug/kg	-	-	-	13 U	9.1 U	31 U	-
Endrin aldehyde	ug/kg	-	-	-	13 U	9.1 U	**54 J**	-
Heptachlor epoxide	ug/kg	-	-	-	13 U	9.1 U	54 U	-
Methoxychlor	ug/kg	-	-	-	24 U	18 U	27 U	-
Petroleum Products								
Total Petroleum Hydrocarbons - Extractable (DRO)	ug/kg	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons - Purgeable (GRO)	ug/kg	-	-	-	-	-	-	-
Dioxin/Furans								
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	**330**	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	**1400**	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	**410**	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	**300**	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	**17**	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	**130**	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	**9.3**	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	**59 J**	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	**35**	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	**30**	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	**24**	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	**10 J**	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	**47**	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	**55**	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	**28**	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	**5.7**	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	**880 J**	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	**600 J**	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	**830 J**	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	**360 J**	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	**1300 J**	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	**2500 J**	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	**1900 J**	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	**160 J**	-

Table 12

Summary of Detections
Soil/Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-171-AS**	**SS-172-AS**	**SS-173-AS**	**TT-23**	**TT-23**	**TT-43**	**TT-43**
Sample ID:		**SS-38443-102918-JC-171**	**SS-38443-102918-JC-172**	**SS-38443-102918-JC-173**	**S-38443-100608-KMV-052**	**S-38443-100608-KMV-053**	**S-38443-110817-BW-033**	**TT-43**
Sample Date:		**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/6/2008**	**10/6/2008**	**11/8/2017**	**11/8/2017**
Sample Depth:		**0-0.5 ft BGS**	**0.17-0.67 ft BGS**	**0-0.5 ft BGS**	**7 ft BGS**	**18 ft BGS**	**6-8 ft BGS**	**8-10 ft BGS**
Parameters	**Units**							
Asbestos								
Chrysotile asbestos	%	0.25 <	-	-	-	-	-	-
Geotechnical								
Coarse sand	%	-	-	-	-	-	-	-
Fine sand	%	-	-	-	-	-	-	-
Fines	%	-	-	-	-	-	-	-
Gravel	%	-	-	-	-	-	-	-
Medium sand	%	-	-	-	-	-	-	-
Sand	%	-	-	-	-	-	-	-
Sieve, #4	% passed	-	-	-	-	-	-	-
Sieve, #10	% passed	-	-	-	-	-	-	-
Sieve, #20	% passed	-	-	-	-	-	-	-
Sieve, #40	% passed	-	-	-	-	-	-	-
Sieve, #60	% passed	-	-	-	-	-	-	-
Sieve, #80	% passed	-	-	-	-	-	-	-
Sieve, #100	% passed	-	-	-	-	-	-	-
Sieve, #200	% passed	-	-	-	-	-	-	-
Sieve, 0.375 inch	% passed	-	-	-	-	-	-	-
Sieve, 0.75 inch	% passed	-	-	-	-	-	-	-
Sieve, 1 inch	% passed	-	-	-	-	-	-	-
Sieve, 1.5 inch	% passed	-	-	-	-	-	-	-
Sieve, 2 inch	% passed	-	-	-	-	-	-	-
Sieve, 3 inch	% passed	-	-	-	-	-	-	-
General Chemistry								
Cyanide (total)	mg/kg	-	-	-	0.74 U	0.54 U	0.52 U	-
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-
Total solids	%	-	-	-	**67.6**	**93.3**	-	-

Notes
< - Less than reported value.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 12

Summary of Detections
Soil/Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**VAS-4**
Sample ID:		**S-38443-110608-KMV-201**
Sample Date:		**11/6/2008**
Sample Depth:		**24-25 ft BGS**
Parameters	**Units**	
Volatiles		
1,1-Dichloroethane	ug/kg	240 U
1,2,4-Trichlorobenzene	ug/kg	240 U
1,2-Dichlorobenzene	ug/kg	**190 J**
1,3-Dichlorobenzene	ug/kg	240 U
1,4-Dichlorobenzene	ug/kg	**45 J**
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	970 U
Acetone	ug/kg	970 U
Benzene	ug/kg	240 U
Carbon disulfide	ug/kg	240 U
Chlorobenzene	ug/kg	240 U
cis-1,2-Dichloroethene	ug/kg	240 U
Cyclohexane	ug/kg	480 U
Ethylbenzene	ug/kg	240 U
Isopropyl benzene	ug/kg	240 U
Methyl cyclohexane	ug/kg	**230 J**
Methylene chloride	ug/kg	240 U
Tetrachloroethene	ug/kg	240 U
Toluene	ug/kg	240 U
trans-1,2-Dichloroethene	ug/kg	240 U
Trichloroethene	ug/kg	240 U
Vinyl chloride	ug/kg	240 U
Xylenes (total)	ug/kg	480 U
Semi-Volatiles		
2,4-Dimethylphenol	ug/kg	-
2-Methylnaphthalene	ug/kg	-
2-Methylphenol	ug/kg	-
3&4-Methylphenol	ug/kg	-
3,3'-Dichlorobenzidine	ug/kg	-
Acenaphthene	ug/kg	-
Acenaphthylene	ug/kg	-
Acetophenone	ug/kg	-
Anthracene	ug/kg	-
Benzaldehyde	ug/kg	-
Benzo(a)anthracene	ug/kg	-
Benzo(a)pyrene	ug/kg	-
Benzo(b)fluoranthene	ug/kg	-
Benzo(g,h,i)perylene	ug/kg	-
Benzo(k)fluoranthene	ug/kg	-
Biphenyl (1,1-Biphenyl)	ug/kg	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	-
Carbazole	ug/kg	-
Chrysene	ug/kg	-
Dibenz(a,h)anthracene	ug/kg	-
Dibenzofuran	ug/kg	-
Diethyl phthalate	ug/kg	-
Di-n-butylphthalate (DBP)	ug/kg	-

Table 12

Summary of Detections
Soil/Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**VAS-4**
Sample ID:		**S-38443-110608-KMV-201**
Sample Date:		**11/6/2008**
Sample Depth:		**24-25 ft BGS**
Parameters	**Units**	
Fluoranthene	ug/kg	-
Fluorene	ug/kg	-
Indeno(1,2,3-cd)pyrene	ug/kg	-
Naphthalene	ug/kg	-
Phenanthrene	ug/kg	-
Phenol	ug/kg	-
Pyrene	ug/kg	-
Metals		
Aluminum	mg/kg	-
Antimony	mg/kg	-
Arsenic	mg/kg	-
Barium	mg/kg	-
Beryllium	mg/kg	-
Cadmium	mg/kg	-
Calcium	mg/kg	-
Chromium	mg/kg	-
Chromium III (trivalent)	mg/kg	-
Chromium VI (hexavalent)	mg/kg	-
Cobalt	mg/kg	-
Copper	mg/kg	-
Iron	mg/kg	-
Lead	mg/kg	-
Lead - coarse fraction	mg/kg	-
Lead - fine fraction	mg/kg	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-
Magnesium	mg/kg	-
Manganese	mg/kg	-
Mercury	mg/kg	-
Nickel	mg/kg	-
Potassium	mg/kg	-
Selenium	mg/kg	-
Silver	mg/kg	-
Sodium	mg/kg	-
Thallium	mg/kg	-
Vanadium	mg/kg	-
Zinc	mg/kg	-

Table 12

Summary of Detections
Soil/Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**VAS-4**
Sample ID:		**S-38443-110608-KMV-201**
Sample Date:		**11/6/2008**
Sample Depth:		**24-25 ft BGS**
Parameters	**Units**	
PCBs		
Aroclor-1232 (PCB-1232)	ug/kg	-
Aroclor-1242 (PCB-1242)	ug/kg	-
Aroclor-1248 (PCB-1248)	ug/kg	-
Aroclor-1254 (PCB-1254)	ug/kg	-
Aroclor-1260 (PCB-1260)	ug/kg	-
Pesticides		
4,4'-DDD	ug/kg	-
4,4'-DDE	ug/kg	-
4,4'-DDT	ug/kg	-
Dieldrin	ug/kg	-
Endrin	ug/kg	-
Endrin aldehyde	ug/kg	-
Heptachlor epoxide	ug/kg	-
Methoxychlor	ug/kg	-
Petroleum Products		
Total Petroleum Hydrocarbons - Extractable (DRO)	ug/kg	-
Total Petroleum Hydrocarbons - Purgeable (GRO)	ug/kg	-
Dioxin/Furans		
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-

Table 12

Summary of Detections
Soil/Fill Samples - EU15
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**VAS-4**
Sample ID:		**S-38443-110608-KMV-201**
Sample Date:		**11/6/2008**
Sample Depth:		**24-25 ft BGS**
Parameters	**Units**	
Asbestos		
Chrysotile asbestos	%	-
Geotechnical		
Coarse sand	%	-
Fine sand	%	-
Fines	%	-
Gravel	%	-
Medium sand	%	-
Sand	%	-
Sieve, #4	% passed	-
Sieve, #10	% passed	-
Sieve, #20	% passed	-
Sieve, #40	% passed	-
Sieve, #60	% passed	-
Sieve, #80	% passed	-
Sieve, #100	% passed	-
Sieve, #200	% passed	-
Sieve, 0.375 inch	% passed	-
Sieve, 0.75 inch	% passed	-
Sieve, 1 inch	% passed	-
Sieve, 1.5 inch	% passed	-
Sieve, 2 inch	% passed	-
Sieve, 3 inch	% passed	-
General Chemistry		
Cyanide (total)	mg/kg	-
Fraction organic carbon (FOC)	%	-
Total solids	%	**94.9**

Notes
< - Less than reported value.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 13

Summary of Detections
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:							**BH08-09**	**BH32-13**	**BH33-13**	**BH33-13**
Sample ID:							**S-38443-062009-DR-002**	**S-38443-070213-JC-079**	**S-38443-062613-JT-060**	**S-38443-062613-JT-061**
Sample Date:							**6/20/2009**	**7/2/2013**	**6/26/2013**	**6/26/2013**
Sample Depth:							**3-5 ft BGS**	**26.5-28.5 ft BGS**	**22-25 ft BGS**	**22-25 ft BGS**
										Duplicate
Parameters	**Units**	**Samples**	**Detects**	**Min Detect**	**Max Detect**	**Average (Detects)**				
Volatiles										
1,1,2-Trichloroethane	ug/kg	45	1	8.3	8.3	8.300	**8.3**	5.4 U	4800 U	4200 U
1,1-Dichloroethane	ug/kg	45	5	0.46	280	83.712	**0.46 J**	5.4 U	4800 U	4200 U
1,1-Dichloroethene	ug/kg	45	3	3.5	49	22.167	**14**	5.4 U	4800 U	4200 U
1,2,4-Trichlorobenzene	ug/kg	43	1	24	24	24.000	6.0 UJ	5.4 U	4800 U	4200 U
1,2-Dichlorobenzene	ug/kg	43	2	42	47	44.500	6.0 UJ	5.4 U	4800 U	4200 U
1,2-Dichloroethane	ug/kg	45	2	49	1200	624.500	**49**	5.4 U	4800 U	4200 U
1,2-Dichloropropane	ug/kg	45	1	1800	1800	1800.000	6.0 U	5.4 U	4800 U	4200 U
1,3-Dichlorobenzene	ug/kg	43	1	44	44	44.000	6.0 UJ	5.4 U	4800 U	4200 U
1,4-Dichlorobenzene	ug/kg	43	5	17	89	40.800	6.0 UJ	5.4 U	4800 U	4200 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	45	17	1.3	170	28.759	**2.8 J**	**7.3 J**	19000 U	17000 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	45	5	0.73	900	286.514	24 U	21 U	19000 U	17000 U
Acetone	ug/kg	45	7	6.4	28000	4223.186	24 UJ	25 U	**28000**	17000 U
Benzene	ug/kg	45	25	0.2	11000	574.266	**1.5 J**	5.4 U	4800 U	4200 U
Carbon disulfide	ug/kg	45	10	0.38	97	11.250	6.0 U	5.4 U	4800 U	4200 U
Chlorobenzene	ug/kg	45	9	14	100000	20534.111	6.0 U	5.4 U	4800 U	4200 U
Chloroethane	ug/kg	45	1	91	91	91.000	6.0 U	5.4 U	4800 U	4200 UJ
cis-1,2-Dichloroethene	ug/kg	45	25	0.39	98000	6194.908	**7.4**	5.4 U	**98000**	**1000 J**
Cyclohexane	ug/kg	45	10	1.4	750	191.430	12 UJ	11 U	9600 U	8400 U
Ethylbenzene	ug/kg	45	24	1.4	210000	17258.383	6.0 U	5.4 U	**62000**	**25000**
Isopropyl benzene	ug/kg	45	20	0.41	15000	1881.158	6.0 U	5.4 U	**6400**	**4300**
Methyl acetate	ug/kg	45	11	58	690	234.455	12 U	11 U	9600 U	8400 U
Methyl cyclohexane	ug/kg	45	29	0.44	14000	1304.181	**4.9 J**	11 U	**1600 J**	**810 J**
Methylene chloride	ug/kg	45	5	0.84	190	45.068	**0.84 J**	5.4 U	8800 U	4900 U
Tetrachloroethene	ug/kg	45	7	0.56	40000	6305.009	6.0 U	5.4 U	4800 U	4200 U
Toluene	ug/kg	45	37	0.28	87000	3737.875	**2.1 J**	**0.51 J**	**87000 J**	**8400 J**
trans-1,2-Dichloroethene	ug/kg	45	12	0.53	300	118.865	**0.95 J**	5.4 U	**270 J**	4200 U
Trichloroethene	ug/kg	45	18	0.51	28000	4136.969	6.0 U	5.4 U	**5300 J**	4200 U
Vinyl chloride	ug/kg	45	14	0.58	1100	202.049	**54**	5.4 U	**380 J**	4200 U
Xylenes (total)	ug/kg	45	26	1.1	590000	41161.358	**1.9 J**	11 U	**280000 J**	**54000 J**
Semi-Volatiles										
2-Methylnaphthalene	ug/kg	23	17	17	4800	693.529	**38 J**	-	-	-
2-Methylphenol	ug/kg	23	1	25	25	25.000	240 UJ	-	-	-
3&4-Methylphenol	ug/kg	12	3	35	1400	511.000	-	-	-	-
Acenaphthene	ug/kg	23	9	33	2600	647.778	8.0 UJ	-	-	-
Acenaphthylene	ug/kg	23	2	8.7	27	17.850	8.0 UJ	-	-	-
Acetophenone	ug/kg	23	1	130	130	130.000	120 UJ	-	-	-
Anthracene	ug/kg	23	9	33	2900	722.889	8.0 UJ	-	-	-
Benzaldehyde	ug/kg	23	2	36	150	93.000	120 UJ	-	-	-
Benzo(a)anthracene	ug/kg	23	15	11	6400	888.600	**11 J**	-	-	-
Benzo(a)pyrene	ug/kg	23	13	14	4500	821.615	8.0 UJ	-	-	-
Benzo(b)fluoranthene	ug/kg	23	17	9	6200	992.941	**9.0 J**	-	-	-
Benzo(g,h,i)perylene	ug/kg	23	12	8.7	2300	474.558	8.0 UJ	-	-	-
Benzo(k)fluoranthene	ug/kg	23	13	10	2400	467.769	8.0 UJ	-	-	-
Biphenyl (1,1-Biphenyl)	ug/kg	23	12	15	740	215.750	60 UJ	-	-	-

Table 13

Summary of Detections
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:							**BH08-09**	**BH32-13**	**BH33-13**	**BH33-13**
Sample ID:							**S-38443-062009-DR-002**	**S-38443-070213-JC-079**	**S-38443-062613-JT-060**	**S-38443-062613-JT-061**
Sample Date:							**6/20/2009**	**7/2/2013**	**6/26/2013**	**6/26/2013**
Sample Depth:							**3-5 ft BGS**	**26.5-28.5 ft BGS**	**22-25 ft BGS**	**22-25 ft BGS**
										Duplicate
Parameters	**Units**	**Samples**	**Detects**	**Min Detect**	**Max Detect**	**Average (Detects)**				
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	23	3	270	2000	926.667	60 UJ	-	-	-
Carbazole	ug/kg	23	1	250	250	250.000	60 UJ	-	-	-
Chrysene	ug/kg	23	17	11	5700	893.824	**11 J**	-	-	-
Dibenz(a,h)anthracene	ug/kg	23	2	53	540	296.500	8.0 UJ	-	-	-
Dibenzofuran	ug/kg	23	8	20	860	322.750	60 UJ	-	-	-
Diethyl phthalate	ug/kg	23	2	36	690	363.000	60 UJ	-	-	-
Dimethyl phthalate	ug/kg	23	1	680	680	680.000	60 UJ	-	-	-
Di-n-butylphthalate (DBP)	ug/kg	23	5	63	6000	1461.600	60 UJ	-	-	-
Fluoranthene	ug/kg	23	20	21	21000	2385.700	**21 J**	-	-	-
Fluorene	ug/kg	23	12	12	2000	470.083	8.0 UJ	-	-	-
Hexachlorobenzene	ug/kg	23	1	350	350	350.000	8.0 UJ	-	-	-
Indeno(1,2,3-cd)pyrene	ug/kg	23	11	7.3	2300	479.664	8.0 UJ	-	-	-
Naphthalene	ug/kg	23	18	14	9800	1188.944	**44 J**	-	-	-
N-Nitrosodiphenylamine	ug/kg	23	2	53	100	76.500	60 UJ	-	-	-
Phenanthrene	ug/kg	23	21	25	6800	1468.762	**42 J**	-	-	-
Phenol	ug/kg	23	5	380	980	734.000	60 UJ	-	-	-
Pyrene	ug/kg	23	21	15	13000	1637.667	**15 J**	-	-	-
Metals										
Aluminum	mg/kg	23	23	2140	20700	6755.652	**3650**	-	-	-
Antimony	mg/kg	23	21	0.41	191	14.233	**0.67 J**	-	-	-
Arsenic	mg/kg	23	23	2.9	120	20.943	**6.6**	-	-	-
Barium	mg/kg	23	23	23.7	7810	1212.191	**23.7 J**	-	-	-
Beryllium	mg/kg	23	21	0.23	6.9	1.306	**0.25 J**	-	-	-
Cadmium	mg/kg	23	22	0.28	64	10.714	0.60 U	-	-	-
Calcium	mg/kg	23	23	2600	146000	51380.435	**2650**	-	-	-
Chromium	mg/kg	23	23	5.2	320	85.865	**105**	-	-	-
Chromium III (trivalent)	mg/kg	10	10	24	320	125.200	-	-	-	-
Chromium VI (hexavalent)	mg/kg	10	3	1	1.7	1.267	-	-	-	-
Cobalt	mg/kg	23	23	2.5	37	11.752	**5.5 J**	-	-	-
Copper	mg/kg	23	23	13.4	7340	1297.400	**70.6 J**	-	-	-
Iron	mg/kg	23	23	5700	210000	47967.826	**69100**	-	-	-
Lead	mg/kg	23	23	9.4	16000	1732.896	**9.4 J**	-	-	-
Magnesium	mg/kg	23	23	722	97000	22391.391	**722**	-	-	-
Manganese	mg/kg	23	23	37	1500	455.852	**1140**	-	-	-
Mercury	mg/kg	23	20	0.03	3.9	0.718	0.12 U	-	-	-
Nickel	mg/kg	23	23	6.5	860	135.974	**42.6**	-	-	-
Potassium	mg/kg	23	23	262	2360	848.913	**262 J**	-	-	-
Selenium	mg/kg	23	16	0.52	38	4.676	**1.1 J**	-	-	-
Silver	mg/kg	23	19	0.1	5	1.949	1.2 U	-	-	-
Sodium	mg/kg	23	22	110	1510	536.136	599 U	-	-	-
Thallium	mg/kg	23	15	0.086	2.4	0.403	0.12 U	-	-	-
Vanadium	mg/kg	23	23	8.2	79	25.148	**11.0**	-	-	-
Zinc	mg/kg	23	23	26.9	19000	1946.557	**26.9**	-	-	-
PCBs										

Table 13

Summary of Detections
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:							**BH08-09**	**BH32-13**	**BH33-13**	**BH33-13**
Sample ID:							**S-38443-062009-DR-002**	**S-38443-070213-JC-079**	**S-38443-062613-JT-060**	**S-38443-062613-JT-061**
Sample Date:							**6/20/2009**	**7/2/2013**	**6/26/2013**	**6/26/2013**
Sample Depth:							**3-5 ft BGS**	**26.5-28.5 ft BGS**	**22-25 ft BGS**	**22-25 ft BGS**
										Duplicate
Parameters	**Units**	**Samples**	**Detects**	**Min Detect**	**Max Detect**	**Average (Detects)**				
Aroclor-1242 (PCB-1242)	ug/kg	25	9	53	29000	6290.889	40 U	-	-	-
Aroclor-1248 (PCB-1248)	ug/kg	25	2	59	160	109.500	40 U	-	-	-
Aroclor-1254 (PCB-1254)	ug/kg	25	16	23	10000	1837.250	40 U	-	-	-
Aroclor-1260 (PCB-1260)	ug/kg	25	2	58	63	60.500	40 U	-	-	-
Pesticides										
4,4'-DDE	ug/kg	22	2	28	93	60.500	-	-	-	-
4,4'-DDT	ug/kg	22	3	6.8	110	59.267	-	-	-	-
delta-BHC	ug/kg	22	1	130	130	130.000	-	-	-	-
Dieldrin	ug/kg	22	2	38	68	53.000	-	-	-	-
Dioxin/Furans										
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	12	12	7.4	730	158.267	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	12	12	44	6300	1295.167	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	12	12	6	870	209.417	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	12	12	8.9	1400	395.658	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	12	12	0.33	68	11.423	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	12	12	3.5	340	80.325	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	12	11	0.3	48	15.191	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	12	12	3.8	110	33.225	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	12	12	1.1	810	118.708	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	12	1	0.88	0.88	0.880	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	12	12	1	510	107.275	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	12	12	0.84	66	22.195	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	12	10	0.83	430	86.403	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	12	11	1.8	140	39.782	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	12	12	1.8	110	39.617	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	12	12	3.7	200	47.708	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	12	10	0.5	180	29.959	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	12	12	12	1700	410.917	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	12	12	16	3800	871.083	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	12	12	75	1400	474.917	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	12	12	11	8700	1249.333	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	12	12	140	1900	707.500	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	12	12	9.9	12000	2822.492	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	12	12	180	3300	1244.167	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	12	12	10	7900	916.583	-	-	-	-
Asbestos										
Chrysotile asbestos	%	3	3	1	60	23.667	-	-	-	-
Geotechnical										
Coarse sand	%	2	2	10.7	14.2	12.450	-	-	-	-
Fine sand	%	2	2	15.7	19.1	17.400	-	-	-	-
Fines	%	2	2	10.6	11.8	11.200	-	-	-	-
Gravel	%	2	2	33.8	40.1	36.950	-	-	-	-

Table 13

Summary of Detections
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:							**BH08-09**	**BH32-13**	**BH33-13**	**BH33-13**
Sample ID:							**S-38443-062009-DR-002**	**S-38443-070213-JC-079**	**S-38443-062613-JT-060**	**S-38443-062613-JT-061**
Sample Date:							**6/20/2009**	**7/2/2013**	**6/26/2013**	**6/26/2013**
Sample Depth:							**3-5 ft BGS**	**26.5-28.5 ft BGS**	**22-25 ft BGS**	**22-25 ft BGS**
										Duplicate
Parameters	**Units**	**Samples**	**Detects**	**Min Detect**	**Max Detect**	**Average (Detects)**				
Medium sand	%	2	2	19.4	24.6	22.000	-	-	-	-
Sand	%	2	2	49.3	54.4	51.850	-	-	-	-
Sieve, #4	% passed	2	2	59.9	66.2	63.050	-	-	-	-
Sieve, #10	% passed	2	2	45.7	55.5	50.600	-	-	-	-
Sieve, #20	% passed	2	2	36	43.2	39.600	-	-	-	-
Sieve, #40	% passed	2	2	26.3	30.9	28.600	-	-	-	-
Sieve, #60	% passed	2	2	19.9	22.9	21.400	-	-	-	-
Sieve, #80	% passed	2	2	16.8	19.2	18.000	-	-	-	-
Sieve, #100	% passed	2	2	15.4	17.2	16.300	-	-	-	-
Sieve, #200	% passed	2	2	10.6	11.8	11.200	-	-	-	-
Sieve, 0.375 inch	% passed	2	2	78.4	81.3	79.850	-	-	-	-
Sieve, 0.75 inch	% passed	2	2	100	100	100.000	-	-	-	-
Sieve, 1 inch	% passed	2	2	100	100	100.000	-	-	-	-
Sieve, 1.5 inch	% passed	2	2	100	100	100.000	-	-	-	-
Sieve, 2 inch	% passed	2	2	100	100	100.000	-	-	-	-
Sieve, 3 inch	% passed	2	2	100	100	100.000	-	-	-	-
General Chemistry										
Cellulose	%	1	1	20	20	20.000	-	-	-	-
Cyanide (total)	mg/kg	22	18	0.12	11	2.563	-	-	-	-
Fraction organic carbon (FOC)	%	2	2	2.7	11.2	6.950	-	-	-	-
Total solids	%	11	11	66.6	96.7	81.300	**83.5**	-	-	-

Notes
< - Less than reported value.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 13

Summary of Detections
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH34-13**	**BH34-13**	**BH35-13**	**BH36-13**	**BH36-13**	**BH37-13**	**BH38-13**
Sample ID:		**S-38443-062713-JT-062**	**S-38443-062713-JT-063**	**S-38443-062813-JT-068**	**S-38443-070113-JT-082**	**S-38443-070113-JT-083**	**S-38443-070213-JT-086**	**S-38443-062713-JT-064**
Sample Date:		**6/27/2013**	**6/27/2013**	**6/28/2013**	**7/1/2013**	**7/1/2013**	**7/2/2013**	**6/27/2013**
Sample Depth:		**4-6 ft BGS**	**24.5-26.5 ft BGS**	**24.5-26.5 ft BGS**	**0-2 ft BGS**	**30-32 ft BGS**	**25-27 ft BGS**	**2-4 ft BGS**
Parameters	**Units**							
Volatiles								
1,1,2-Trichloroethane	ug/kg	5.0 U	4.3 U	8.9 UJ	4.9 U	4.5 U	4.3 U	570 U
1,1-Dichloroethane	ug/kg	5.0 U	4.3 U	8.9 UJ	4.9 U	4.5 U	4.3 U	**280 J**
1,1-Dichloroethene	ug/kg	5.0 U	4.3 U	8.9 UJ	4.9 U	4.5 U	4.3 U	**49 J**
1,2,4-Trichlorobenzene	ug/kg	5.0 U	4.3 U	R	4.9 U	4.5 U	4.3 U	570 U
1,2-Dichlorobenzene	ug/kg	5.0 U	4.3 U	R	4.9 U	4.5 U	4.3 U	570 U
1,2-Dichloroethane	ug/kg	5.0 U	4.3 U	8.9 UJ	4.9 U	4.5 U	4.3 U	570 U
1,2-Dichloropropane	ug/kg	5.0 U	4.3 U	8.9 UJ	4.9 U	4.5 U	4.3 U	570 U
1,3-Dichlorobenzene	ug/kg	5.0 U	4.3 U	R	4.9 U	4.5 U	4.3 U	570 U
1,4-Dichlorobenzene	ug/kg	5.0 U	4.3 U	R	4.9 U	4.5 U	4.3 U	570 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	**15 J**	**1.8 J**	**17 J**	**5.1 J**	**1.3 J**	17 U	2300 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	**0.94 J**	17 U	36 UJ	**0.90 J**	18 U	17 U	2300 U
Acetone	ug/kg	83 U	17 U	81 UJ	20 U	18 U	17 U	2300 U
Benzene	ug/kg	5.0 U	4.3 U	**12 J**	4.9 U	**0.71 J**	**1.7 J**	**510 J**
Carbon disulfide	ug/kg	5.0 U	**0.48 J**	**2.7 J**	**0.63 J**	4.5 U	4.3 U	570 U
Chlorobenzene	ug/kg	5.0 U	4.3 U	8.9 UJ	4.9 U	4.5 U	4.3 U	**23 J**
Chloroethane	ug/kg	5.0 U	4.3 U	8.9 UJ	4.9 U	4.5 U	4.3 U	570 U
cis-1,2-Dichloroethene	ug/kg	**1.2 J**	4.3 U	8.9 UJ	4.9 U	4.5 U	4.3 U	**1000**
Cyclohexane	ug/kg	**1.8 J**	8.6 U	18 UJ	9.8 U	**1.4 J**	**2.4 J**	**600 J**
Ethylbenzene	ug/kg	**6.9**	4.3 U	8.9 UJ	4.9 U	**1.4 J**	**2.5 J**	**15000**
Isopropyl benzene	ug/kg	**7.3**	4.3 U	8.9 UJ	4.9 U	4.5 U	**0.55 J**	**280 J**
Methyl acetate	ug/kg	10 U	8.6 U	18 UJ	9.8 U	9.1 U	8.7 U	**240 J**
Methyl cyclohexane	ug/kg	**18**	**1.3 J**	18 UJ	9.8 U	**2.5 J**	**3.2 J**	**1100**
Methylene chloride	ug/kg	5.0 UJ	6.8 UJ	21 UJ	4.9 U	5.8 UJ	4.3 U	740 UJ
Tetrachloroethene	ug/kg	5.0 U	4.3 U	8.9 UJ	4.9 U	4.5 U	4.3 U	570 U
Toluene	ug/kg	**3.3 J**	**0.43 J**	**2.2 J**	**0.38 J**	**2.6 J**	**2.5 J**	**670**
trans-1,2-Dichloroethene	ug/kg	5.0 U	4.3 U	8.9 UJ	4.9 U	4.5 U	4.3 U	**140 J**
Trichloroethene	ug/kg	5.0 U	4.3 U	8.9 UJ	4.9 U	4.5 U	4.3 U	**1600 J**
Vinyl chloride	ug/kg	5.0 U	4.3 U	**2.1 J**	4.9 U	4.5 U	4.3 U	**200 J**
Xylenes (total)	ug/kg	**27**	8.6 U	18 UJ	9.8 U	**2.7 J**	**4.6 J**	**14000**
Semi-Volatiles								
2-Methylnaphthalene	ug/kg	-	-	-	-	-	-	-
2-Methylphenol	ug/kg	-	-	-	-	-	-	-
3&4-Methylphenol	ug/kg	-	-	-	-	-	-	-
Acenaphthene	ug/kg	-	-	-	-	-	-	-
Acenaphthylene	ug/kg	-	-	-	-	-	-	-
Acetophenone	ug/kg	-	-	-	-	-	-	-
Anthracene	ug/kg	-	-	-	-	-	-	-
Benzaldehyde	ug/kg	-	-	-	-	-	-	-
Benzo(a)anthracene	ug/kg	-	-	-	-	-	-	-
Benzo(a)pyrene	ug/kg	-	-	-	-	-	-	-
Benzo(b)fluoranthene	ug/kg	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	ug/kg	-	-	-	-	-	-	-
Benzo(k)fluoranthene	ug/kg	-	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	ug/kg	-	-	-	-	-	-	-

Table 13

Summary of Detections
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH34-13**	**BH34-13**	**BH35-13**	**BH36-13**	**BH36-13**	**BH37-13**	**BH38-13**
Sample ID:		**S-38443-062713-JT-062**	**S-38443-062713-JT-063**	**S-38443-062813-JT-068**	**S-38443-070113-JT-082**	**S-38443-070113-JT-083**	**S-38443-070213-JT-086**	**S-38443-062713-JT-064**
Sample Date:		**6/27/2013**	**6/27/2013**	**6/28/2013**	**7/1/2013**	**7/1/2013**	**7/2/2013**	**6/27/2013**
Sample Depth:		**4-6 ft BGS**	**24.5-26.5 ft BGS**	**24.5-26.5 ft BGS**	**0-2 ft BGS**	**30-32 ft BGS**	**25-27 ft BGS**	**2-4 ft BGS**
Parameters	**Units**							
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	-	-	-	-	-	-	-
Carbazole	ug/kg	-	-	-	-	-	-	-
Chrysene	ug/kg	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	ug/kg	-	-	-	-	-	-	-
Dibenzofuran	ug/kg	-	-	-	-	-	-	-
Diethyl phthalate	ug/kg	-	-	-	-	-	-	-
Dimethyl phthalate	ug/kg	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	ug/kg	-	-	-	-	-	-	-
Fluoranthene	ug/kg	-	-	-	-	-	-	-
Fluorene	ug/kg	-	-	-	-	-	-	-
Hexachlorobenzene	ug/kg	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/kg	-	-	-	-	-	-	-
Naphthalene	ug/kg	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	ug/kg	-	-	-	-	-	-	-
Phenanthrene	ug/kg	-	-	-	-	-	-	-
Phenol	ug/kg	-	-	-	-	-	-	-
Pyrene	ug/kg	-	-	-	-	-	-	-
Metals								
Aluminum	mg/kg	-	-	-	-	-	-	-
Antimony	mg/kg	-	-	-	-	-	-	-
Arsenic	mg/kg	-	-	-	-	-	-	-
Barium	mg/kg	-	-	-	-	-	-	-
Beryllium	mg/kg	-	-	-	-	-	-	-
Cadmium	mg/kg	-	-	-	-	-	-	-
Calcium	mg/kg	-	-	-	-	-	-	-
Chromium	mg/kg	-	-	-	-	-	-	-
Chromium III (trivalent)	mg/kg	-	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-	-
Cobalt	mg/kg	-	-	-	-	-	-	-
Copper	mg/kg	-	-	-	-	-	-	-
Iron	mg/kg	-	-	-	-	-	-	-
Lead	mg/kg	-	-	-	-	-	-	-
Magnesium	mg/kg	-	-	-	-	-	-	-
Manganese	mg/kg	-	-	-	-	-	-	-
Mercury	mg/kg	-	-	-	-	-	-	-
Nickel	mg/kg	-	-	-	-	-	-	-
Potassium	mg/kg	-	-	-	-	-	-	-
Selenium	mg/kg	-	-	-	-	-	-	-
Silver	mg/kg	-	-	-	-	-	-	-
Sodium	mg/kg	-	-	-	-	-	-	-
Thallium	mg/kg	-	-	-	-	-	-	-
Vanadium	mg/kg	-	-	-	-	-	-	-
Zinc	mg/kg	-	-	-	-	-	-	-
PCBs								

Table 13

Summary of Detections
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH34-13**	**BH34-13**	**BH35-13**	**BH36-13**	**BH36-13**	**BH37-13**	**BH38-13**
Sample ID:		**S-38443-062713-JT-062**	**S-38443-062713-JT-063**	**S-38443-062813-JT-068**	**S-38443-070113-JT-082**	**S-38443-070113-JT-083**	**S-38443-070213-JT-086**	**S-38443-062713-JT-064**
Sample Date:		**6/27/2013**	**6/27/2013**	**6/28/2013**	**7/1/2013**	**7/1/2013**	**7/2/2013**	**6/27/2013**
Sample Depth:		**4-6 ft BGS**	**24.5-26.5 ft BGS**	**24.5-26.5 ft BGS**	**0-2 ft BGS**	**30-32 ft BGS**	**25-27 ft BGS**	**2-4 ft BGS**
Parameters	**Units**							
Aroclor-1242 (PCB-1242)	ug/kg	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/kg	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/kg	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/kg	-	-	-	-	-	-	-
Pesticides								
4,4'-DDE	ug/kg	-	-	-	-	-	-	-
4,4'-DDT	ug/kg	-	-	-	-	-	-	-
delta-BHC	ug/kg	-	-	-	-	-	-	-
Dieldrin	ug/kg	-	-	-	-	-	-	-
Dioxin/Furans								
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Asbestos								
Chrysotile asbestos	%	-	-	-	-	-	-	-
Geotechnical								
Coarse sand	%	-	-	-	-	-	-	-
Fine sand	%	-	-	-	-	-	-	-
Fines	%	-	-	-	-	-	-	-
Gravel	%	-	-	-	-	-	-	-

Table 13

Summary of Detections
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH34-13**	**BH34-13**	**BH35-13**	**BH36-13**	**BH36-13**	**BH37-13**	**BH38-13**
Sample ID:		**S-38443-062713-JT-062**	**S-38443-062713-JT-063**	**S-38443-062813-JT-068**	**S-38443-070113-JT-082**	**S-38443-070113-JT-083**	**S-38443-070213-JT-086**	**S-38443-062713-JT-064**
Sample Date:		**6/27/2013**	**6/27/2013**	**6/28/2013**	**7/1/2013**	**7/1/2013**	**7/2/2013**	**6/27/2013**
Sample Depth:		**4-6 ft BGS**	**24.5-26.5 ft BGS**	**24.5-26.5 ft BGS**	**0-2 ft BGS**	**30-32 ft BGS**	**25-27 ft BGS**	**2-4 ft BGS**
Parameters	**Units**							
Medium sand	%	-	-	-	-	-	-	-
Sand	%	-	-	-	-	-	-	-
Sieve, #4	% passed	-	-	-	-	-	-	-
Sieve, #10	% passed	-	-	-	-	-	-	-
Sieve, #20	% passed	-	-	-	-	-	-	-
Sieve, #40	% passed	-	-	-	-	-	-	-
Sieve, #60	% passed	-	-	-	-	-	-	-
Sieve, #80	% passed	-	-	-	-	-	-	-
Sieve, #100	% passed	-	-	-	-	-	-	-
Sieve, #200	% passed	-	-	-	-	-	-	-
Sieve, 0.375 inch	% passed	-	-	-	-	-	-	-
Sieve, 0.75 inch	% passed	-	-	-	-	-	-	-
Sieve, 1 inch	% passed	-	-	-	-	-	-	-
Sieve, 1.5 inch	% passed	-	-	-	-	-	-	-
Sieve, 2 inch	% passed	-	-	-	-	-	-	-
Sieve, 3 inch	% passed	-	-	-	-	-	-	-
General Chemistry								
Cellulose	%	-	-	-	-	-	-	-
Cyanide (total)	mg/kg	-	-	-	-	-	-	-
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-

Notes
< - Less than reported value.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 13

Summary of Detections
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH38-13**	**BH39-13**	**BH40-13**	**BH40-13**	**BH42-13**	**BH42-13**	**BH42-13**
Sample ID:		**S-38443-062713-JT-065**	**S-38443-070113-JC-075**	**S-38443-062813-JT-066**	**S-38443-062813-JT-067**	**S-38443-070113-JT-069**	**S-38443-070113-JT-080**	**S-38443-070113-JT-081**
Sample Date:		**6/27/2013**	**7/1/2013**	**6/28/2013**	**6/28/2013**	**7/1/2013**	**7/1/2013**	**7/1/2013**
Sample Depth:		**25.5-27.5 ft BGS**	**28-30 ft BGS**	**18-20 ft BGS**	**18-20 ft BGS**	**2-4 ft BGS**	**2-4 ft BGS**	**20-22 ft BGS**
					Duplicate		**Duplicate**	
Parameters	**Units**							
Volatiles								
1,1,2-Trichloroethane	ug/kg	3.9 U	5.4 U	8.3 U	580 U	3100 U	3000 U	260 U
1,1-Dichloroethane	ug/kg	3.9 U	5.4 U	8.3 U	580 U	3100 U	3000 U	**71 J**
1,1-Dichloroethene	ug/kg	3.9 U	5.4 U	8.3 U	580 U	3100 U	3000 U	260 U
1,2,4-Trichlorobenzene	ug/kg	3.9 U	5.4 U	8.3 UJ	580 U	3100 U	3000 U	260 U
1,2-Dichlorobenzene	ug/kg	3.9 U	5.4 U	8.3 UJ	580 U	3100 U	3000 U	260 U
1,2-Dichloroethane	ug/kg	3.9 U	5.4 U	8.3 U	580 U	3100 U	3000 U	260 U
1,2-Dichloropropane	ug/kg	3.9 U	5.4 U	8.3 U	580 U	3100 U	3000 U	260 U
1,3-Dichlorobenzene	ug/kg	3.9 U	5.4 U	8.3 UJ	580 U	3100 U	3000 U	260 U
1,4-Dichlorobenzene	ug/kg	3.9 U	5.4 U	8.3 UJ	580 U	3100 U	3000 U	260 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	**2.2 J**	**2.8 J**	**23 J**	**120 J**	13000 U	12000 U	**100 J**
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	16 U	**0.73 J**	33 U	2300 U	**900 J**	12000 U	1000 U
Acetone	ug/kg	20 U	22 U	110 U	2300 U	13000 U	12000 U	1000 U
Benzene	ug/kg	3.9 U	5.4 U	**6.9 J**	**310 J**	**350 J**	**150 J**	**47 J**
Carbon disulfide	ug/kg	3.9 U	5.4 U	**1.0 J**	580 U	3100 U	3000 U	**97 J**
Chlorobenzene	ug/kg	3.9 U	5.4 U	8.3 U	580 U	3100 U	3000 U	260 U
Chloroethane	ug/kg	3.9 U	5.4 U	8.3 U	580 U	3100 U	3000 U	**91 J**
cis-1,2-Dichloroethene	ug/kg	3.9 U	**0.51 J**	8.3 U	580 U	**4000**	**1800 J**	**180 J**
Cyclohexane	ug/kg	7.8 U	11 U	17 U	1200 U	6300 U	6100 U	520 U
Ethylbenzene	ug/kg	3.9 U	5.4 U	8.3 U	**98 J**	**12000**	**4300**	**470**
Isopropyl benzene	ug/kg	3.9 U	5.4 U	8.3 U	**100 J**	**2800 J**	**1100 J**	**180 J**
Methyl acetate	ug/kg	7.8 U	11 U	17 U	**380 J**	**690 J**	**380 J**	**98 J**
Methyl cyclohexane	ug/kg	7.8 U	11 U	**1.2 J**	**44 J**	**3800 J**	**930 J**	**310 J**
Methylene chloride	ug/kg	5.7 UJ	**3.1 J**	17 UJ	580 U	3100 U	3000 U	260 U
Tetrachloroethene	ug/kg	3.9 U	5.4 U	8.3 U	580 U	**320 J**	3000 U	**13 J**
Toluene	ug/kg	**1.7 J**	**0.31 J**	**2.6 J**	**270 J**	**12000**	**1800 J**	**490**
trans-1,2-Dichloroethene	ug/kg	3.9 U	5.4 U	8.3 U	580 U	**290 J**	**130 J**	260 U
Trichloroethene	ug/kg	3.9 U	5.4 U	8.3 U	580 U	3100 U	3000 U	260 U
Vinyl chloride	ug/kg	3.9 U	5.4 U	8.3 U	580 U	3100 U	3000 U	**21 J**
Xylenes (total)	ug/kg	7.8 U	11 U	17 U	**380 J**	**27000**	**10000**	**950**
Semi-Volatiles								
2-Methylnaphthalene	ug/kg	-	-	-	-	-	-	-
2-Methylphenol	ug/kg	-	-	-	-	-	-	-
3&4-Methylphenol	ug/kg	-	-	-	-	-	-	-
Acenaphthene	ug/kg	-	-	-	-	-	-	-
Acenaphthylene	ug/kg	-	-	-	-	-	-	-
Acetophenone	ug/kg	-	-	-	-	-	-	-
Anthracene	ug/kg	-	-	-	-	-	-	-
Benzaldehyde	ug/kg	-	-	-	-	-	-	-
Benzo(a)anthracene	ug/kg	-	-	-	-	-	-	-
Benzo(a)pyrene	ug/kg	-	-	-	-	-	-	-
Benzo(b)fluoranthene	ug/kg	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	ug/kg	-	-	-	-	-	-	-
Benzo(k)fluoranthene	ug/kg	-	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	ug/kg	-	-	-	-	-	-	-

Table 13

Summary of Detections
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH38-13**	**BH39-13**	**BH40-13**	**BH40-13**	**BH42-13**	**BH42-13**	**BH42-13**
Sample ID:		**S-38443-062713-JT-065**	**S-38443-070113-JC-075**	**S-38443-062813-JT-066**	**S-38443-062813-JT-067**	**S-38443-070113-JT-069**	**S-38443-070113-JT-080**	**S-38443-070113-JT-081**
Sample Date:		**6/27/2013**	**7/1/2013**	**6/28/2013**	**6/28/2013**	**7/1/2013**	**7/1/2013**	**7/1/2013**
Sample Depth:		**25.5-27.5 ft BGS**	**28-30 ft BGS**	**18-20 ft BGS**	**18-20 ft BGS**	**2-4 ft BGS**	**2-4 ft BGS**	**20-22 ft BGS**
					Duplicate		**Duplicate**	
Parameters	**Units**							
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	-	-	-	-	-	-	-
Carbazole	ug/kg	-	-	-	-	-	-	-
Chrysene	ug/kg	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	ug/kg	-	-	-	-	-	-	-
Dibenzofuran	ug/kg	-	-	-	-	-	-	-
Diethyl phthalate	ug/kg	-	-	-	-	-	-	-
Dimethyl phthalate	ug/kg	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	ug/kg	-	-	-	-	-	-	-
Fluoranthene	ug/kg	-	-	-	-	-	-	-
Fluorene	ug/kg	-	-	-	-	-	-	-
Hexachlorobenzene	ug/kg	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/kg	-	-	-	-	-	-	-
Naphthalene	ug/kg	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	ug/kg	-	-	-	-	-	-	-
Phenanthrene	ug/kg	-	-	-	-	-	-	-
Phenol	ug/kg	-	-	-	-	-	-	-
Pyrene	ug/kg	-	-	-	-	-	-	-
Metals								
Aluminum	mg/kg	-	-	-	-	-	-	-
Antimony	mg/kg	-	-	-	-	-	-	-
Arsenic	mg/kg	-	-	-	-	-	-	-
Barium	mg/kg	-	-	-	-	-	-	-
Beryllium	mg/kg	-	-	-	-	-	-	-
Cadmium	mg/kg	-	-	-	-	-	-	-
Calcium	mg/kg	-	-	-	-	-	-	-
Chromium	mg/kg	-	-	-	-	-	-	-
Chromium III (trivalent)	mg/kg	-	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-	-
Cobalt	mg/kg	-	-	-	-	-	-	-
Copper	mg/kg	-	-	-	-	-	-	-
Iron	mg/kg	-	-	-	-	-	-	-
Lead	mg/kg	-	-	-	-	-	-	-
Magnesium	mg/kg	-	-	-	-	-	-	-
Manganese	mg/kg	-	-	-	-	-	-	-
Mercury	mg/kg	-	-	-	-	-	-	-
Nickel	mg/kg	-	-	-	-	-	-	-
Potassium	mg/kg	-	-	-	-	-	-	-
Selenium	mg/kg	-	-	-	-	-	-	-
Silver	mg/kg	-	-	-	-	-	-	-
Sodium	mg/kg	-	-	-	-	-	-	-
Thallium	mg/kg	-	-	-	-	-	-	-
Vanadium	mg/kg	-	-	-	-	-	-	-
Zinc	mg/kg	-	-	-	-	-	-	-
PCBs								

Table 13

Summary of Detections
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH38-13**	**BH39-13**	**BH40-13**	**BH40-13**	**BH42-13**	**BH42-13**	**BH42-13**
Sample ID:		**S-38443-062713-JT-065**	**S-38443-070113-JC-075**	**S-38443-062813-JT-066**	**S-38443-062813-JT-067**	**S-38443-070113-JT-069**	**S-38443-070113-JT-080**	**S-38443-070113-JT-081**
Sample Date:		**6/27/2013**	**7/1/2013**	**6/28/2013**	**6/28/2013**	**7/1/2013**	**7/1/2013**	**7/1/2013**
Sample Depth:		**25.5-27.5 ft BGS**	**28-30 ft BGS**	**18-20 ft BGS**	**18-20 ft BGS**	**2-4 ft BGS**	**2-4 ft BGS**	**20-22 ft BGS**
					Duplicate		**Duplicate**	
Parameters	**Units**							
Aroclor-1242 (PCB-1242)	ug/kg	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/kg	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/kg	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/kg	-	-	-	-	-	-	-
Pesticides								
4,4'-DDE	ug/kg	-	-	-	-	-	-	-
4,4'-DDT	ug/kg	-	-	-	-	-	-	-
delta-BHC	ug/kg	-	-	-	-	-	-	-
Dieldrin	ug/kg	-	-	-	-	-	-	-
Dioxin/Furans								
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Asbestos								
Chrysotile asbestos	%	-	-	-	-	-	-	-
Geotechnical								
Coarse sand	%	-	-	-	-	-	-	-
Fine sand	%	-	-	-	-	-	-	-
Fines	%	-	-	-	-	-	-	-
Gravel	%	-	-	-	-	-	-	-

Table 13

Summary of Detections
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH38-13**	**BH39-13**	**BH40-13**	**BH40-13**	**BH42-13**	**BH42-13**	**BH42-13**
Sample ID:		**S-38443-062713-JT-065**	**S-38443-070113-JC-075**	**S-38443-062813-JT-066**	**S-38443-062813-JT-067**	**S-38443-070113-JT-069**	**S-38443-070113-JT-080**	**S-38443-070113-JT-081**
Sample Date:		**6/27/2013**	**7/1/2013**	**6/28/2013**	**6/28/2013**	**7/1/2013**	**7/1/2013**	**7/1/2013**
Sample Depth:		**25.5-27.5 ft BGS**	**28-30 ft BGS**	**18-20 ft BGS**	**18-20 ft BGS**	**2-4 ft BGS**	**2-4 ft BGS**	**20-22 ft BGS**
					Duplicate		**Duplicate**	
Parameters	**Units**							
Medium sand	%	-	-	-	-	-	-	-
Sand	%	-	-	-	-	-	-	-
Sieve, #4	% passed	-	-	-	-	-	-	-
Sieve, #10	% passed	-	-	-	-	-	-	-
Sieve, #20	% passed	-	-	-	-	-	-	-
Sieve, #40	% passed	-	-	-	-	-	-	-
Sieve, #60	% passed	-	-	-	-	-	-	-
Sieve, #80	% passed	-	-	-	-	-	-	-
Sieve, #100	% passed	-	-	-	-	-	-	-
Sieve, #200	% passed	-	-	-	-	-	-	-
Sieve, 0.375 inch	% passed	-	-	-	-	-	-	-
Sieve, 0.75 inch	% passed	-	-	-	-	-	-	-
Sieve, 1 inch	% passed	-	-	-	-	-	-	-
Sieve, 1.5 inch	% passed	-	-	-	-	-	-	-
Sieve, 2 inch	% passed	-	-	-	-	-	-	-
Sieve, 3 inch	% passed	-	-	-	-	-	-	-
General Chemistry								
Cellulose	%	-	-	-	-	-	-	-
Cyanide (total)	mg/kg	-	-	-	-	-	-	-
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-

Notes
< - Less than reported value.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 13

Summary of Detections
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH43-13**	**BH44-13**	**BH44-13**	**BH44-13**	**BH44-13**	**BH136-18**	**BH136-18**
Sample ID:		**S-38443-070113-JC-074**	**S-38443-070113-JT-084**	**S-38443-070113-JT-085**	**S-38443-070213-JT-084**	**S-38443-070213-JT-085**	**S-38443-010818-JC-032**	**S-38443-010818-JC-033**
Sample Date:		**7/1/2013**	**7/1/2013**	**7/1/2013**	**7/2/2013**	**7/2/2013**	**1/8/2018**	**1/8/2018**
Sample Depth:		**26.8-28.7 ft BGS**	**2-4 ft BGS**	**35.5-37.5 ft BGS**	**2-4 ft BGS**	**35.5-37.5 ft BGS**	**1-3 ft BGS**	**1-3 ft BGS Duplicate**
Parameters	**Units**							
Volatiles								
1,1,2-Trichloroethane	ug/kg	4.3 U	230 U	550 U	-	-	24 U	23 U
1,1-Dichloroethane	ug/kg	4.3 U	230 U	550 U	-	-	32 U	31 U
1,1-Dichloroethene	ug/kg	4.3 U	230 U	550 U	-	-	37 U	36 U
1,2,4-Trichlorobenzene	ug/kg	4.3 U	230 U	550 U	-	-	27 U	26 U
1,2-Dichlorobenzene	ug/kg	4.3 U	230 U	550 U	-	-	19 U	18 U
1,2-Dichloroethane	ug/kg	4.3 U	230 U	550 U	-	-	31 U	30 U
1,2-Dichloropropane	ug/kg	4.3 U	230 U	550 U	-	-	31 U	30 U
1,3-Dichlorobenzene	ug/kg	4.3 U	230 U	550 U	-	-	39 U	38 U
1,4-Dichlorobenzene	ug/kg	4.3 U	230 U	550 U	-	-	28 U	27 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	17 U	910 U	2200 U	-	-	52 U	50 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	17 U	910 U	2200 U	-	-	41 U	40 U
Acetone	ug/kg	17 U	910 U	2200 U	-	-	100 U	98 U
Benzene	ug/kg	**0.20 J**	**13 J**	550 U	-	-	**37 J**	**29 J**
Carbon disulfide	ug/kg	4.3 U	230 U	550 U	-	-	19 U	18 U
Chlorobenzene	ug/kg	4.3 U	230 U	550 U	-	-	31 U	30 U
Chloroethane	ug/kg	4.3 U	230 U	550 U	-	-	29 U	28 U
cis-1,2-Dichloroethene	ug/kg	**1.5 J**	230 U	**410 J**	-	-	**4200**	**3300**
Cyclohexane	ug/kg	8.6 U	450 U	1100 U	-	-	**43 J**	**34 J**
Ethylbenzene	ug/kg	4.3 U	**8.6 J**	**67 J**	-	-	36 U	35 U
Isopropyl benzene	ug/kg	4.3 U	230 U	**450 J**	-	-	35 U	34 U
Methyl acetate	ug/kg	8.6 U	**65 J**	**58 J**	-	-	77 U	75 U
Methyl cyclohexane	ug/kg	8.6 U	**32 J**	**1300**	-	-	**770**	**700**
Methylene chloride	ug/kg	**1.4 J**	230 U	550 U	-	-	67 U	65 U
Tetrachloroethene	ug/kg	4.3 U	230 U	550 U	-	-	22 U	21 U
Toluene	ug/kg	**0.58 J**	**39 J**	**86 J**	-	-	**200 J**	**150 J**
trans-1,2-Dichloroethene	ug/kg	4.3 U	230 U	550 U	-	-	**53 J**	**46 J**
Trichloroethene	ug/kg	4.3 U	230 U	550 U	-	-	**96 J**	**75 J**
Vinyl chloride	ug/kg	4.3 U	230 U	**220 J**	-	-	**89 J**	**78 J**
Xylenes (total)	ug/kg	8.6 U	450 U	1100 U	-	-	**63 J**	**42 J**
Semi-Volatiles								
2-Methylnaphthalene	ug/kg	-	-	-	-	-	**300**	**440**
2-Methylphenol	ug/kg	-	-	-	-	-	120 U	120 U
3&4-Methylphenol	ug/kg	-	-	-	-	-	210 U	210 U
Acenaphthene	ug/kg	-	-	-	-	-	**49 J**	8.2 U
Acenaphthylene	ug/kg	-	-	-	-	-	3.7 U	3.8 U
Acetophenone	ug/kg	-	-	-	-	-	97 U	99 U
Anthracene	ug/kg	-	-	-	-	-	**78**	**69 J**
Benzaldehyde	ug/kg	-	-	-	-	-	130 U	130 U
Benzo(a)anthracene	ug/kg	-	-	-	-	-	**280 J**	**500 J**
Benzo(a)pyrene	ug/kg	-	-	-	-	-	**370 J**	**780 J**
Benzo(b)fluoranthene	ug/kg	-	-	-	-	-	**720 J**	**1800 J**
Benzo(g,h,i)perylene	ug/kg	-	-	-	-	-	**160 J**	**520 J**
Benzo(k)fluoranthene	ug/kg	-	-	-	-	-	**190 J**	**600 J**
Biphenyl (1,1-Biphenyl)	ug/kg	-	-	-	-	-	**81 J**	**92 J**

Table 13

Summary of Detections
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH43-13**	**BH44-13**	**BH44-13**	**BH44-13**	**BH44-13**	**BH136-18**	**BH136-18**
Sample ID:		**S-38443-070113-JC-074**	**S-38443-070113-JT-084**	**S-38443-070113-JT-085**	**S-38443-070213-JT-084**	**S-38443-070213-JT-085**	**S-38443-010818-JC-032**	**S-38443-010818-JC-033**
Sample Date:		**7/1/2013**	**7/1/2013**	**7/1/2013**	**7/2/2013**	**7/2/2013**	**1/8/2018**	**1/8/2018**
Sample Depth:		**26.8-28.7 ft BGS**	**2-4 ft BGS**	**35.5-37.5 ft BGS**	**2-4 ft BGS**	**35.5-37.5 ft BGS**	**1-3 ft BGS**	**1-3 ft BGS Duplicate**
Parameters	**Units**							
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	-	-	-	-	-	**510 J**	200 U
Carbazole	ug/kg	-	-	-	-	-	290 U	290 U
Chrysene	ug/kg	-	-	-	-	-	**350 J**	**800 J**
Dibenz(a,h)anthracene	ug/kg	-	-	-	-	-	7.0 U	7.1 U
Dibenzofuran	ug/kg	-	-	-	-	-	**98 J**	**140 J**
Diethyl phthalate	ug/kg	-	-	-	-	-	170 U	170 U
Dimethyl phthalate	ug/kg	-	-	-	-	-	180 U	180 U
Di-n-butylphthalate (DBP)	ug/kg	-	-	-	-	-	160 U	160 U
Fluoranthene	ug/kg	-	-	-	-	-	**640**	**730**
Fluorene	ug/kg	-	-	-	-	-	**95**	**63 J**
Hexachlorobenzene	ug/kg	-	-	-	-	-	22 U	23 U
Indeno(1,2,3-cd)pyrene	ug/kg	-	-	-	-	-	**190 J**	**420 J**
Naphthalene	ug/kg	-	-	-	-	-	**230**	**350**
N-Nitrosodiphenylamine	ug/kg	-	-	-	-	-	220 U	230 U
Phenanthrene	ug/kg	-	-	-	-	-	**570**	**510**
Phenol	ug/kg	-	-	-	-	-	77 U	78 U
Pyrene	ug/kg	-	-	-	-	-	**670**	**810**
Metals								
Aluminum	mg/kg	-	-	-	-	-	**2400**	**4500**
Antimony	mg/kg	-	-	-	-	-	**0.41 J**	**0.42 J**
Arsenic	mg/kg	-	-	-	-	-	**6.2**	**5.2**
Barium	mg/kg	-	-	-	-	-	**79**	**130**
Beryllium	mg/kg	-	-	-	-	-	**0.33**	**0.41**
Cadmium	mg/kg	-	-	-	-	-	**0.28**	**0.42**
Calcium	mg/kg	-	-	-	-	-	**110000**	**49000**
Chromium	mg/kg	-	-	-	-	-	**44**	**61**
Chromium III (trivalent)	mg/kg	-	-	-	-	-	**44**	**60**
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	0.26 U	**1.0**
Cobalt	mg/kg	-	-	-	-	-	**3.0**	**3.6**
Copper	mg/kg	-	-	-	-	-	**200**	**190**
Iron	mg/kg	-	-	-	-	-	**11000**	**23000**
Lead	mg/kg	-	-	-	-	-	**120**	**180**
Magnesium	mg/kg	-	-	-	-	-	**45000**	**24000**
Manganese	mg/kg	-	-	-	-	-	**230**	**360**
Mercury	mg/kg	-	-	-	-	-	0.021 UJ	**0.81 J**
Nickel	mg/kg	-	-	-	-	-	**11**	**12**
Potassium	mg/kg	-	-	-	-	-	**380**	**560**
Selenium	mg/kg	-	-	-	-	-	**0.65 J**	**0.52 J**
Silver	mg/kg	-	-	-	-	-	**0.32 J**	**5.0 J**
Sodium	mg/kg	-	-	-	-	-	**190**	**260**
Thallium	mg/kg	-	-	-	-	-	**0.10 J**	**0.086 J**
Vanadium	mg/kg	-	-	-	-	-	**11**	**12**
Zinc	mg/kg	-	-	-	-	-	**39**	**87**
PCBs								

Table 13

Summary of Detections
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH43-13**	**BH44-13**	**BH44-13**	**BH44-13**	**BH44-13**	**BH136-18**	**BH136-18**
Sample ID:		**S-38443-070113-JC-074**	**S-38443-070113-JT-084**	**S-38443-070113-JT-085**	**S-38443-070213-JT-084**	**S-38443-070213-JT-085**	**S-38443-010818-JC-032**	**S-38443-010818-JC-033**
Sample Date:		**7/1/2013**	**7/1/2013**	**7/1/2013**	**7/2/2013**	**7/2/2013**	**1/8/2018**	**1/8/2018**
Sample Depth:		**26.8-28.7 ft BGS**	**2-4 ft BGS**	**35.5-37.5 ft BGS**	**2-4 ft BGS**	**35.5-37.5 ft BGS**	**1-3 ft BGS**	**1-3 ft BGS Duplicate**
Parameters	**Units**							
Aroclor-1242 (PCB-1242)	ug/kg	-	-	-	**53**	36 U	99 U	20 U
Aroclor-1248 (PCB-1248)	ug/kg	-	-	-	35 U	36 U	130 U	25 U
Aroclor-1254 (PCB-1254)	ug/kg	-	-	-	35 U	36 U	**2000 J**	**440 J**
Aroclor-1260 (PCB-1260)	ug/kg	-	-	-	**58 J**	36 U	110 U	23 U
Pesticides								
4,4'-DDE	ug/kg	-	-	-	-	-	25 U	12 U
4,4'-DDT	ug/kg	-	-	-	-	-	29 U	14 U
delta-BHC	ug/kg	-	-	-	-	-	27 U	13 U
Dieldrin	ug/kg	-	-	-	-	-	19 U	9.3 U
Dioxin/Furans								
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	**43 J**	**35**
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	**410**	**480**
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	**120**	**85**
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	**120**	**140**
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	**8.5 J**	**6.9**
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	**65**	**48 J**
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	0.39 U	**4.0 J**
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	**23 J**	**16**
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	**16 J**	**18**
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	2.0 U	**0.88 J**
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	**16 J**	**15**
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	**15 J**	**15**
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	6.3 U	15 U
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	**21 J**	**17**
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	**29 J**	**30**
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	**110**	**200**
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	**2.0 J**	**1.3 J**
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	**180 J**	**140 J**
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	**260 J**	**300 J**
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	**230 J**	**190 J**
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	**150 J**	**160 J**
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	**300 J**	**290 J**
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	**5900 J**	**12000 J**
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	**600 J**	**720 J**
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	**60 J**	**38 J**
Asbestos								
Chrysotile asbestos	%	-	-	-	-	-	-	-
Geotechnical								
Coarse sand	%	-	-	-	-	-	-	-
Fine sand	%	-	-	-	-	-	-	-
Fines	%	-	-	-	-	-	-	-
Gravel	%	-	-	-	-	-	-	-

Table 13

Summary of Detections
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH43-13**	**BH44-13**	**BH44-13**	**BH44-13**	**BH44-13**	**BH136-18**	**BH136-18**
Sample ID:		**S-38443-070113-JC-074**	**S-38443-070113-JT-084**	**S-38443-070113-JT-085**	**S-38443-070213-JT-084**	**S-38443-070213-JT-085**	**S-38443-010818-JC-032**	**S-38443-010818-JC-033**
Sample Date:		**7/1/2013**	**7/1/2013**	**7/1/2013**	**7/2/2013**	**7/2/2013**	**1/8/2018**	**1/8/2018**
Sample Depth:		**26.8-28.7 ft BGS**	**2-4 ft BGS**	**35.5-37.5 ft BGS**	**2-4 ft BGS**	**35.5-37.5 ft BGS**	**1-3 ft BGS**	**1-3 ft BGS**
								Duplicate
Parameters	**Units**							
Medium sand	%	-	-	-	-	-	-	-
Sand	%	-	-	-	-	-	-	-
Sieve, #4	% passed	-	-	-	-	-	-	-
Sieve, #10	% passed	-	-	-	-	-	-	-
Sieve, #20	% passed	-	-	-	-	-	-	-
Sieve, #40	% passed	-	-	-	-	-	-	-
Sieve, #60	% passed	-	-	-	-	-	-	-
Sieve, #80	% passed	-	-	-	-	-	-	-
Sieve, #100	% passed	-	-	-	-	-	-	-
Sieve, #200	% passed	-	-	-	-	-	-	-
Sieve, 0.375 inch	% passed	-	-	-	-	-	-	-
Sieve, 0.75 inch	% passed	-	-	-	-	-	-	-
Sieve, 1 inch	% passed	-	-	-	-	-	-	-
Sieve, 1.5 inch	% passed	-	-	-	-	-	-	-
Sieve, 2 inch	% passed	-	-	-	-	-	-	-
Sieve, 3 inch	% passed	-	-	-	-	-	-	-
General Chemistry								
Cellulose	%	-	-	-	-	-	-	-
Cyanide (total)	mg/kg	-	-	-	-	-	**0.13 J**	**0.21 J**
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-

Notes
< - Less than reported value.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 13

Summary of Detections
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH136-18**	**BH137-18**	**BH137-18**	**BH138-18**	**BH139-18**	**BH140-18**	**BH141-18**
Sample ID:		**S-38443-010818-JC-034**	**S-38443-010818-JC-030**	**S-38443-010818-JC-031**	**S-38443-010918-JC-035**	**S-38443-010418-JC-028**	**S-38443-010818-JC-029**	**S-38443-010918-JC-036**
Sample Date:		**1/8/2018**	**1/8/2018**	**1/8/2018**	**1/9/2018**	**1/4/2018**	**1/8/2018**	**1/9/2018**
Sample Depth:		**15-17 ft BGS**	**13-15 ft BGS**	**26-28 ft BGS**	**8-10 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**	**6-8 ft BGS**
Parameters	**Units**							
Volatiles								
1,1,2-Trichloroethane	ug/kg	130 UJ	58 U	160 UJ	0.57 U	140 U	0.54 U	70 U
1,1-Dichloroethane	ug/kg	170 UJ	79 U	220 UJ	0.48 U	180 U	**1.1 J**	94 U
1,1-Dichloroethene	ug/kg	200 UJ	91 U	250 UJ	0.79 U	210 U	**3.5 J**	110 U
1,2,4-Trichlorobenzene	ug/kg	140 UJ	66 U	180 UJ	0.35 U	150 U	R	79 U
1,2-Dichlorobenzene	ug/kg	99 UJ	46 U	130 UJ	0.32 U	110 U	R	54 U
1,2-Dichloroethane	ug/kg	**1200 J**	76 U	210 UJ	0.42 U	180 U	0.40 U	91 U
1,2-Dichloropropane	ug/kg	**1800 J**	76 U	210 UJ	0.45 U	180 U	0.43 U	91 U
1,3-Dichlorobenzene	ug/kg	210 UJ	96 U	260 UJ	0.42 U	220 U	R	110 U
1,4-Dichlorobenzene	ug/kg	150 UJ	69 U	190 UJ	0.51 U	160 U	R	82 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	270 UJ	130 U	350 UJ	**12 J**	290 U	1.7 U	**170 J**
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	220 UJ	100 U	280 UJ	1.3 U	240 U	1.2 U	120 U
Acetone	ug/kg	530 UJ	250 U	670 UJ	**79**	570 U	**34 J**	**1400 J**
Benzene	ug/kg	**11000 J**	61 U	170 UJ	0.47 U	140 U	**2.6 J**	**140 J**
Carbon disulfide	ug/kg	99 UJ	46 U	130 UJ	**1.8 J**	110 U	0.29 U	54 U
Chlorobenzene	ug/kg	160 UJ	76 U	210 UJ	0.48 U	180 U	0.45 U	**26000**
Chloroethane	ug/kg	150 UJ	71 U	190 UJ	0.55 U	170 U	0.52 U	85 U
cis-1,2-Dichloroethene	ug/kg	**35000 J**	**890**	**2100 J**	0.41 U	**330 J**	**150**	**240 J**
Cyclohexane	ug/kg	**250 J**	76 U	210 UJ	0.31 U	180 U	0.29 U	91 U
Ethylbenzene	ug/kg	**6300 J**	89 U	240 UJ	0.39 U	210 U	0.37 U	**270 J**
Isopropyl benzene	ug/kg	**270 J**	86 U	240 UJ	0.29 U	200 U	0.28 U	100 U
Methyl acetate	ug/kg	410 UJ	190 U	520 UJ	1.7 U	440 U	1.6 U	230 U
Methyl cyclohexane	ug/kg	**2200 J**	94 U	260 UJ	0.33 U	220 U	0.32 U	**210 J**
Methylene chloride	ug/kg	360 UJ	160 U	450 UJ	13 U	380 U	0.33 U	150 U
Tetrachloroethene	ug/kg	120 UJ	**1300**	**2500 J**	0.54 U	**40000**	**1.5 J**	63 U
Toluene	ug/kg	**15000 J**	61 U	170 UJ	0.49 U	140 U	0.47 U	**180 J**
trans-1,2-Dichloroethene	ug/kg	**300 J**	89 U	240 UJ	0.55 U	210 U	**9.9**	110 U
Trichloroethene	ug/kg	**1500 J**	**11000**	**28000 J**	0.60 U	**25000**	**15**	**430 J**
Vinyl chloride	ug/kg	**1100 J**	43 U	120 UJ	0.41 U	100 U	**3.0 J**	51 U
Xylenes (total)	ug/kg	**7400 J**	71 U	190 UJ	0.58 U	170 U	0.55 U	**720 J**
Semi-Volatiles								
2-Methylnaphthalene	ug/kg	**860**	**450**	**410**	**27**	**460**	**51**	**1200**
2-Methylphenol	ug/kg	280 U	51 U	140 U	**25 J**	270 U	28 U	19 U
3&4-Methylphenol	ug/kg	**1400 J**	**98 J**	250 U	**35 J**	490 U	51 U	34 U
Acenaphthene	ug/kg	**290**	**290**	**300**	1.1 U	19 U	1.9 U	**98**
Acenaphthylene	ug/kg	9.0 U	1.6 U	4.3 U	0.49 U	8.7 U	**8.7 J**	**27**
Acetophenone	ug/kg	240 U	42 U	110 U	**130 J**	230 U	23 U	16 U
Anthracene	ug/kg	**180**	**280**	**900**	1.1 U	19 U	**33**	1.3 U
Benzaldehyde	ug/kg	310 U	55 U	150 U	**150**	300 U	**36 J**	20 U
Benzo(a)anthracene	ug/kg	**410**	**330**	**870**	**23**	16 U	**52**	**41**
Benzo(a)pyrene	ug/kg	**420**	**250**	**700**	**31**	16 U	**36**	1.1 U
Benzo(b)fluoranthene	ug/kg	**700**	**530**	**1100**	**52**	15 U	**96**	**60**
Benzo(g,h,i)perylene	ug/kg	9.0 U	**83**	**230**	**16**	8.7 U	**37**	0.60 U
Benzo(k)fluoranthene	ug/kg	**220**	**150**	**450**	**16**	17 U	**25**	1.2 U
Biphenyl (1,1-Biphenyl)	ug/kg	**340 J**	**160 J**	**530 J**	**40 J**	**110 J**	**51 J**	**180**

Table 13

Summary of Detections
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH136-18**	**BH137-18**	**BH137-18**	**BH138-18**	**BH139-18**	**BH140-18**	**BH141-18**
Sample ID:		**S-38443-010818-JC-034**	**S-38443-010818-JC-030**	**S-38443-010818-JC-031**	**S-38443-010918-JC-035**	**S-38443-010418-JC-028**	**S-38443-010818-JC-029**	**S-38443-010918-JC-036**
Sample Date:		**1/8/2018**	**1/8/2018**	**1/8/2018**	**1/9/2018**	**1/4/2018**	**1/8/2018**	**1/9/2018**
Sample Depth:		**15-17 ft BGS**	**13-15 ft BGS**	**26-28 ft BGS**	**8-10 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**	**6-8 ft BGS**
Parameters	**Units**							
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	490 U	87 U	230 U	26 U	470 U	**2000**	**270**
Carbazole	ug/kg	690 U	120 U	330 U	38 U	670 U	69 U	46 U
Chrysene	ug/kg	**760**	**430**	**970**	**29**	27 U	**100**	**73**
Dibenz(a,h)anthracene	ug/kg	17 U	3.0 U	8.1 U	0.92 U	16 U	1.7 U	1.1 U
Dibenzofuran	ug/kg	17 U	**280**	**360 J**	**20 J**	16 U	**64 J**	1.1 U
Diethyl phthalate	ug/kg	410 U	73 U	200 U	22 U	**690 J**	41 U	**36 J**
Dimethyl phthalate	ug/kg	440 U	78 U	210 U	24 U	420 U	43 U	**680**
Di-n-butylphthalate (DBP)	ug/kg	380 U	69 U	190 U	**65 J**	370 U	**270**	**63 J**
Fluoranthene	ug/kg	**940**	**1500**	**4000**	**42**	**330**	**180**	**170**
Fluorene	ug/kg	**240**	**300**	**470**	0.74 U	13 U	**12 J**	**130**
Hexachlorobenzene	ug/kg	54 U	9.6 U	**350**	2.9 U	52 U	5.3 U	3.6 U
Indeno(1,2,3-cd)pyrene	ug/kg	9.0 U	**76**	**200**	**13**	8.7 U	0.89 U	0.60 U
Naphthalene	ug/kg	**540**	**670**	**590**	**50**	**240**	**25**	**1500**
N-Nitrosodiphenylamine	ug/kg	540 U	**100 J**	260 U	29 U	520 U	53 U	36 U
Phenanthrene	ug/kg	**1400**	**2500**	**6700**	**27**	**590**	**290**	**210**
Phenol	ug/kg	**700 J**	**640**	**380 J**	10 U	**980 J**	19 U	12 U
Pyrene	ug/kg	**1000**	**1500**	**3100**	**42**	**550**	**200**	**130**
Metals								
Aluminum	mg/kg	**7200**	**6100**	**8500**	**5500**	**2600**	**19000**	**5500**
Antimony	mg/kg	**2.9 J**	**5.3 J**	**7.2 J**	**1.7**	**0.49**	**6.8 J**	**2.3**
Arsenic	mg/kg	**120**	**19**	**25**	**30**	**11**	**22**	**28**
Barium	mg/kg	**390**	**1900**	**1800**	**330**	**6200**	**2200**	**200**
Beryllium	mg/kg	**2.9**	**0.68**	**1.1**	**3.2**	**0.51**	**0.93**	**6.9**
Cadmium	mg/kg	**53**	**4.5**	**8.4**	**1.2**	**5.3**	**29**	**0.48**
Calcium	mg/kg	**27000**	**22000**	**36000**	**24000**	**11000**	**30000**	**14000**
Chromium	mg/kg	**82**	**75**	**140**	**24**	**300**	**120**	**90**
Chromium III (trivalent)	mg/kg	**82**	**73**	**140**	**24**	**300**	**120**	**89**
Chromium VI (hexavalent)	mg/kg	0.31 U	**1.7 J**	1.5 U	0.34 U	3.0 U	1.5 U	**1.1 J**
Cobalt	mg/kg	**15**	**11**	**28**	**11**	**37**	**17**	**18**
Copper	mg/kg	**460**	**1300**	**4700**	**56**	**2700**	**1500**	**250**
Iron	mg/kg	**41000**	**100000**	**89000**	**8500**	**23000**	**150000**	**13000**
Lead	mg/kg	**390**	**1100**	**1200**	**75**	**16000**	**1700**	**590**
Magnesium	mg/kg	**5400**	**6200**	**10000**	**10000**	**97000**	**12000**	**4600**
Manganese	mg/kg	**370**	**320**	**1500**	**70**	**400**	**520**	**78**
Mercury	mg/kg	**0.35**	**0.15**	**0.88**	**0.081 J**	**0.058 J**	**3.9**	**1.1**
Nickel	mg/kg	**37**	**44**	**140**	**20**	**640**	**170**	**36**
Potassium	mg/kg	**910**	**1200**	**1300**	**720**	**360**	**1100**	**470**
Selenium	mg/kg	**5.0**	**1.5**	**2.0**	**5.6**	**1.3**	**1.5**	**38**
Silver	mg/kg	**1.8**	**1.4**	**3.0**	**0.10 J**	**0.52**	**2.9**	**0.26 J**
Sodium	mg/kg	**580**	**720**	**830**	**310**	**110 J**	**790**	**250 J**
Thallium	mg/kg	**0.41**	**0.14 J**	**0.25**	**0.51**	**0.28 J**	**0.20 J**	**2.4**
Vanadium	mg/kg	**41**	**14**	**28**	**38**	**15**	**23**	**79**
Zinc	mg/kg	**4300**	**2200**	**6100**	**140**	**740**	**19000**	**80**
PCBs								

Table 13

Summary of Detections
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH136-18**	**BH137-18**	**BH137-18**	**BH138-18**	**BH139-18**	**BH140-18**	**BH141-18**
Sample ID:		**S-38443-010818-JC-034**	**S-38443-010818-JC-030**	**S-38443-010818-JC-031**	**S-38443-010918-JC-035**	**S-38443-010418-JC-028**	**S-38443-010818-JC-029**	**S-38443-010918-JC-036**
Sample Date:		**1/8/2018**	**1/8/2018**	**1/8/2018**	**1/9/2018**	**1/4/2018**	**1/8/2018**	**1/9/2018**
Sample Depth:		**15-17 ft BGS**	**13-15 ft BGS**	**26-28 ft BGS**	**8-10 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**	**6-8 ft BGS**
Parameters	**Units**							
Aroclor-1242 (PCB-1242)	ug/kg	24 U	**400**	**280 J**	**130**	23 U	**29000**	33 U
Aroclor-1248 (PCB-1248)	ug/kg	31 U	130 U	150 U	34 U	30 U	1500 U	**59 J**
Aroclor-1254 (PCB-1254)	ug/kg	**65**	**2700**	**1700**	33 U	**94**	**10000**	40 U
Aroclor-1260 (PCB-1260)	ug/kg	28 U	120 U	130 U	31 U	27 U	1300 U	38 U
Pesticides								
4,4'-DDE	ug/kg	1.5 U	27 U	29 U	34 U	30 U	73 U	40 U
4,4'-DDT	ug/kg	**6.8**	31 U	**61 NJ**	40 U	35 U	85 U	46 U
delta-BHC	ug/kg	1.7 U	29 U	32 U	37 U	32 U	79 U	**130 J**
Dieldrin	ug/kg	1.1 U	20 U	22 U	26 U	22 U	55 U	30 U
Dioxin/Furans								
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	**17 J**	**7.4 J**	**670**	**12 J**	**13**	**9.8 J**	**130**
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	**130**	**700**	**4600**	**48**	**540**	**44**	**1200**
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	**40 J**	**95**	**430**	**6.0 J**	**16**	**120**	**100**
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	**39 J**	**630**	**820**	**8.9**	**120**	**22**	**180**
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	**3.7 J**	**1.8 J**	**22**	**0.33 J**	**0.64 J**	**3.1 J**	**5.8 J**
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	**28 J**	**19 J**	**160 J**	**3.5 J**	**4.4 J**	**120**	**40**
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	**2.6 J**	**48 J**	**25**	**0.30 J**	**2.4 J**	**5.1 J**	**3.8 J**
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	**13 J**	**25 J**	**69 J**	**5.0 J**	**4.9 J**	**41**	**17 J**
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	**5.6 J**	**310**	**110**	**1.1 J**	**24**	**6.8**	**16**
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	2.4 U	1.5 U	7.5 U	0.97 U	1.8 U	2.1 U	1.5 U
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	**5.8 J**	**450**	**140**	**1.0 J**	**16**	**13**	**15**
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	**8.6 J**	**12 J**	**32**	**1.3 J**	**0.84 J**	**47**	**11**
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	**4.3 J**	**290**	**83**	**0.83 J**	**3.5 J**	**14 J**	**5.8 J**
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	**11 J**	**29 J**	**110 J**	**1.8 J**	1.5 U	**39**	**15**
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	**12 J**	**23 J**	**73**	**3.2 J**	**1.8 J**	**76**	**23**
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	**8.5 J**	**14 J**	**34 J**	**10**	**3.7**	**70 J**	**17**
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	0.88 U	**78**	**22**	0.13 U	**0.89 J**	**5.7**	**1.4 J**
Total heptachlorodibenzofuran (HpCDF)	pg/g	**58 J**	**120 J**	**850 J**	**12 J**	**33 J**	**140 J**	**250 J**
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	**80 J**	**1300 J**	**1600 J**	**16 J**	**220 J**	**47 J**	**390 J**
Total hexachlorodibenzofuran (HxCDF)	pg/g	**97 J**	**370 J**	**1100 J**	**120 J**	**77 J**	**420 J**	**220 J**
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	**57 J**	**3200 J**	**1100 J**	**11 J**	**160 J**	**100 J**	**180 J**
Total pentachlorodibenzofuran (PeCDF)	pg/g	**140 J**	**550 J**	**1900 J**	**350 J**	**200 J**	**1000 J**	**320 J**
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	**50 J**	**2400 J**	**3500 J**	**9.9 J**	**300 J**	**180 J**	**230 J**
Total tetrachlorodibenzofuran (TCDF)	pg/g	**250 J**	**820 J**	**3300 J**	**680 J**	**370 J**	**2600 J**	**610 J**
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	**29 J**	**1300 J**	**530 J**	**10 J**	**250 J**	**350 J**	**120 J**
Asbestos								
Chrysotile asbestos	%	-	-	-	-	**10**	-	-
Geotechnical								
Coarse sand	%	-	-	-	-	-	-	-
Fine sand	%	-	-	-	-	-	-	-
Fines	%	-	-	-	-	-	-	-
Gravel	%	-	-	-	-	-	-	-

Table 13

Summary of Detections
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH136-18**	**BH137-18**	**BH137-18**	**BH138-18**	**BH139-18**	**BH140-18**	**BH141-18**
Sample ID:		**S-38443-010818-JC-034**	**S-38443-010818-JC-030**	**S-38443-010818-JC-031**	**S-38443-010918-JC-035**	**S-38443-010418-JC-028**	**S-38443-010818-JC-029**	**S-38443-010918-JC-036**
Sample Date:		**1/8/2018**	**1/8/2018**	**1/8/2018**	**1/9/2018**	**1/4/2018**	**1/8/2018**	**1/9/2018**
Sample Depth:		**15-17 ft BGS**	**13-15 ft BGS**	**26-28 ft BGS**	**8-10 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**	**6-8 ft BGS**
Parameters	**Units**							
Medium sand	%	-	-	-	-	-	-	-
Sand	%	-	-	-	-	-	-	-
Sieve, #4	% passed	-	-	-	-	-	-	-
Sieve, #10	% passed	-	-	-	-	-	-	-
Sieve, #20	% passed	-	-	-	-	-	-	-
Sieve, #40	% passed	-	-	-	-	-	-	-
Sieve, #60	% passed	-	-	-	-	-	-	-
Sieve, #80	% passed	-	-	-	-	-	-	-
Sieve, #100	% passed	-	-	-	-	-	-	-
Sieve, #200	% passed	-	-	-	-	-	-	-
Sieve, 0.375 inch	% passed	-	-	-	-	-	-	-
Sieve, 0.75 inch	% passed	-	-	-	-	-	-	-
Sieve, 1 inch	% passed	-	-	-	-	-	-	-
Sieve, 1.5 inch	% passed	-	-	-	-	-	-	-
Sieve, 2 inch	% passed	-	-	-	-	-	-	-
Sieve, 3 inch	% passed	-	-	-	-	-	-	-
General Chemistry								
Cellulose	%	-	-	-	-	-	-	-
Cyanide (total)	mg/kg	**8.5**	**0.31 J**	**0.35 J**	**0.33 J**	**0.30 J**	**8.7**	**3.5**
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-

Notes
< - Less than reported value.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 13

Summary of Detections
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH142-18**	**GP01-18**	**GP32-18**	**TP-5**	**TP-5**	**TP-5**	**TP-6**
Sample ID:		**S-38443-010418-JC-027**	**S-38443-012518-JC-064**	**S-38443-011018-JC-037**	**S-38443-100608-KMV-054**	**S-38443-100608-KMV-055**	**S-38443-100608-KMV-056**	**S-38443-100608-KMV-057**
Sample Date:		**1/4/2018**	**1/25/2018**	**1/10/2018**	**10/6/2008**	**10/6/2008**	**10/6/2008**	**10/6/2008**
Sample Depth:		**8-10 ft BGS**	**5.5-6.5 ft bgs**	**10-11 ft BGS**	**8 ft BGS**	**12 ft BGS**	**17 ft BGS**	**11 ft BGS**
Parameters	**Units**							
Volatiles								
1,1,2-Trichloroethane	ug/kg	0.41 U	440 U	0.50 U	-	300 U	4.5 U	7.3 U
1,1-Dichloroethane	ug/kg	0.34 U	590 U	0.43 U	-	300 U	4.5 U	7.3 U
1,1-Dichloroethene	ug/kg	0.56 U	680 U	0.70 U	-	300 U	4.5 U	7.3 U
1,2,4-Trichlorobenzene	ug/kg	0.25 U	490 U	0.31 U	-	**24 J**	4.5 U	7.3 U
1,2-Dichlorobenzene	ug/kg	0.23 U	340 U	0.28 U	-	**42 J**	4.5 U	7.3 U
1,2-Dichloroethane	ug/kg	0.30 U	570 U	0.38 U	-	300 U	4.5 U	7.3 U
1,2-Dichloropropane	ug/kg	0.32 U	570 U	0.40 U	-	300 U	4.5 U	7.3 U
1,3-Dichlorobenzene	ug/kg	0.30 U	720 U	0.38 U	-	**44 J**	4.5 U	7.3 U
1,4-Dichlorobenzene	ug/kg	0.36 U	510 U	0.45 U	-	**24 J**	4.5 U	7.3 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	**2.1 J**	950 U	1.6 U	-	1200 U	**2.2 J**	29 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	0.93 U	760 U	1.2 U	-	1200 U	18 U	29 U
Acetone	ug/kg	**33**	1800 U	4.0 U	-	1200 U	**6.4 J**	**9.9 J**
Benzene	ug/kg	0.33 U	460 U	0.41 U	-	**260 J**	**0.67 J**	7.3 U
Carbon disulfide	ug/kg	**0.38 J**	340 U	0.27 U	-	300 U	4.5 U	**6.4 J**
Chlorobenzene	ug/kg	0.34 U	**100000**	0.43 U	-	**9800**	**28**	7.3 U
Chloroethane	ug/kg	0.40 U	530 U	0.49 U	-	300 U	4.5 U	7.3 U
cis-1,2-Dichloroethene	ug/kg	0.29 U	670 U	0.36 U	-	300 U	4.5 U	7.3 U
Cyclohexane	ug/kg	0.22 U	570 U	0.27 U	-	**230 J**	**1.7 J**	15 U
Ethylbenzene	ug/kg	0.28 U	670 U	0.35 U	-	**2400**	**22**	7.3 U
Isopropyl benzene	ug/kg	0.21 U	650 U	0.26 U	-	**680**	**3.9 J**	7.3 U
Methyl acetate	ug/kg	1.2 U	1400 U	1.5 U	-	**290 J**	8.9 U	15 U
Methyl cyclohexane	ug/kg	0.24 U	700 UJ	0.30 U	-	**2400**	**14**	15 U
Methylene chloride	ug/kg	1.3 U	2500 U	0.97 U	-	300 U	4.5 U	7.3 U
Tetrachloroethene	ug/kg	0.39 U	400 U	0.48 U	-	300 U	4.5 U	7.3 U
Toluene	ug/kg	**3.3 J**	460 U	**1.3 J**	-	**1100**	**8.2**	7.3 U
trans-1,2-Dichloroethene	ug/kg	0.40 U	670 U	0.49 U	-	300 U	4.5 U	7.3 U
Trichloroethene	ug/kg	**0.75 J**	700 U	**1.5 J**	-	**16 J**	4.5 U	7.3 U
Vinyl chloride	ug/kg	0.29 U	320 U	0.36 U	-	300 U	4.5 U	7.3 U
Xylenes (total)	ug/kg	0.42 U	530 U	0.52 U	-	**12000**	**130**	15 U
Semi-Volatiles								
2-Methylnaphthalene	ug/kg	27 U	-	-	-	**1700**	**27**	8.2 U
2-Methylphenol	ug/kg	580 U	-	-	-	5100 UJ	210 UJ	250 UJ
3&4-Methylphenol	ug/kg	1100 U	-	-	-	-	-	-
Acenaphthene	ug/kg	40 U	-	-	-	170 U	6.9 U	8.2 U
Acenaphthylene	ug/kg	19 U	-	-	-	170 U	6.9 U	8.2 U
Acetophenone	ug/kg	490 U	-	-	-	2600 U	100 U	120 U
Anthracene	ug/kg	41 U	-	-	-	170 U	6.9 U	8.2 U
Benzaldehyde	ug/kg	640 U	-	-	-	2600 U	100 U	120 U
Benzo(a)anthracene	ug/kg	**430**	-	-	-	170 U	**22**	8.2 U
Benzo(a)pyrene	ug/kg	34 U	-	-	-	170 U	**14**	8.2 U
Benzo(b)fluoranthene	ug/kg	**660**	-	-	-	170 U	**23**	8.2 U
Benzo(g,h,i)perylene	ug/kg	19 U	-	-	-	170 U	**8.7**	8.2 U
Benzo(k)fluoranthene	ug/kg	36 U	-	-	-	170 U	**10**	8.2 U
Biphenyl (1,1-Biphenyl)	ug/kg	**250 J**	-	-	-	1300 U	52 U	62 U

Table 13

Summary of Detections
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH142-18**	**GP01-18**	**GP32-18**	**TP-5**	**TP-5**	**TP-5**	**TP-6**
Sample ID:		**S-38443-010418-JC-027**	**S-38443-012518-JC-064**	**S-38443-011018-JC-037**	**S-38443-100608-KMV-054**	**S-38443-100608-KMV-055**	**S-38443-100608-KMV-056**	**S-38443-100608-KMV-057**
Sample Date:		**1/4/2018**	**1/25/2018**	**1/10/2018**	**10/6/2008**	**10/6/2008**	**10/6/2008**	**10/6/2008**
Sample Depth:		**8-10 ft BGS**	**5.5-6.5 ft bgs**	**10-11 ft BGS**	**8 ft BGS**	**12 ft BGS**	**17 ft BGS**	**11 ft BGS**
Parameters	**Units**							
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	1000 U	-	-	-	4100 U	84 U	62 U
Carbazole	ug/kg	1400 U	-	-	-	1300 U	52 U	62 U
Chrysene	ug/kg	**1600**	-	-	-	**530**	**22**	8.2 U
Dibenz(a,h)anthracene	ug/kg	35 U	-	-	-	170 U	6.9 U	8.2 U
Dibenzofuran	ug/kg	35 U	-	-	-	1300 U	52 U	62 U
Diethyl phthalate	ug/kg	850 U	-	-	-	1300 U	52 U	62 U
Dimethyl phthalate	ug/kg	900 U	-	-	-	1300 U	52 U	62 U
Di-n-butylphthalate (DBP)	ug/kg	800 U	-	-	-	**910 J**	52 U	62 U
Fluoranthene	ug/kg	**1700**	-	-	-	**970**	**51**	8.2 U
Fluorene	ug/kg	28 U	-	-	-	**400**	6.9 U	8.2 U
Hexachlorobenzene	ug/kg	110 U	-	-	-	170 U	6.9 U	8.2 U
Indeno(1,2,3-cd)pyrene	ug/kg	19 U	-	-	-	170 U	**7.3**	8.2 U
Naphthalene	ug/kg	44 U	-	-	-	**5500**	**38**	8.2 U
N-Nitrosodiphenylamine	ug/kg	1100 U	-	-	-	1300 U	52 U	62 U
Phenanthrene	ug/kg	**1900**	-	-	-	**1100**	**25**	8.2 U
Phenol	ug/kg	390 U	-	-	-	1300 U	52 U	62 U
Pyrene	ug/kg	**1200**	-	-	-	**680**	**34**	8.2 U
Metals								
Aluminum	mg/kg	**4600**	-	-	-	**10700**	**2260**	**7400**
Antimony	mg/kg	**5.7**	-	-	-	**12.2 J**	6.2 UJ	**1.7 J**
Arsenic	mg/kg	**24**	-	-	-	**14.2**	**2.9**	**11.7**
Barium	mg/kg	**440**	-	-	-	**7810**	**50.8**	**1380**
Beryllium	mg/kg	**0.41**	-	-	-	**0.62 J**	0.52 U	**0.26 J**
Cadmium	mg/kg	**4.7**	-	-	-	**7.8 J**	**0.28 J**	**4.2 J**
Calcium	mg/kg	**30000**	-	-	-	**42900**	**117000**	**146000**
Chromium	mg/kg	**320**	-	-	-	**185 J**	**8.4 J**	**36.8 J**
Chromium III (trivalent)	mg/kg	**320**	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	0.26 U	-	-	-	-	-	-
Cobalt	mg/kg	**21**	-	-	-	**9.3**	**3.5 J**	**2.9 J**
Copper	mg/kg	**1700**	-	-	-	**2590 J**	**15.2 J**	**900 J**
Iron	mg/kg	**210000**	-	-	-	**63000**	**8000**	**25300**
Lead	mg/kg	**350**	-	-	-	**5020**	**59.1**	**546**
Magnesium	mg/kg	**6500**	-	-	-	**37100**	**42100**	**40300**
Manganese	mg/kg	**1400**	-	-	-	**561 J**	**226 J**	**333 J**
Mercury	mg/kg	**0.76**	-	-	-	**0.24**	0.10 U	**1.3**
Nickel	mg/kg	**860**	-	-	-	**241 J**	**10.1 J**	**20.2 J**
Potassium	mg/kg	**290**	-	-	-	**1200**	**378 J**	**1270**
Selenium	mg/kg	**0.80**	-	-	-	31.9 U	26.0 U	30.8 U
Silver	mg/kg	**3.7**	-	-	-	**1.2 J**	1.0 U	**1.7**
Sodium	mg/kg	**290**	-	-	-	**1510**	**256 J**	**1120**
Thallium	mg/kg	**0.095 J**	-	-	-	0.64 U	0.10 U	0.12 U
Vanadium	mg/kg	**37**	-	-	-	**34.0**	**11.9**	**20.9**
Zinc	mg/kg	**1000**	-	-	-	**2390**	**32.9**	**816**
PCBs								

Table 13

Summary of Detections
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH142-18**	**GP01-18**	**GP32-18**	**TP-5**	**TP-5**	**TP-5**	**TP-6**
Sample ID:		**S-38443-010418-JC-027**	**S-38443-012518-JC-064**	**S-38443-011018-JC-037**	**S-38443-100608-KMV-054**	**S-38443-100608-KMV-055**	**S-38443-100608-KMV-056**	**S-38443-100608-KMV-057**
Sample Date:		**1/4/2018**	**1/25/2018**	**1/10/2018**	**10/6/2008**	**10/6/2008**	**10/6/2008**	**10/6/2008**
Sample Depth:		**8-10 ft BGS**	**5.5-6.5 ft bgs**	**10-11 ft BGS**	**8 ft BGS**	**12 ft BGS**	**17 ft BGS**	**11 ft BGS**
Parameters	**Units**							
Aroclor-1242 (PCB-1242)	ug/kg	20 U	-	-	-	**10000**	**55**	41 U
Aroclor-1248 (PCB-1248)	ug/kg	25 U	-	-	-	2100 U	34 U	41 U
Aroclor-1254 (PCB-1254)	ug/kg	**450 NJ**	-	-	-	**2800**	**23 J**	41 UJ
Aroclor-1260 (PCB-1260)	ug/kg	23 U	-	-	-	2100 U	34 U	41 UJ
Pesticides								
4,4'-DDE	ug/kg	13 U	-	-	-	220 U	18 U	2.1 U
4,4'-DDT	ug/kg	15 U	-	-	-	**110 J**	18 UJ	2.1 UJ
delta-BHC	ug/kg	14 U	-	-	-	220 U	18 U	2.1 U
Dieldrin	ug/kg	9.7 U	-	-	-	**68 J**	18 U	2.1 U
Dioxin/Furans								
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	**200 J**	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	**580**	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	**610**	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	**1400**	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	**15 J**	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	**130**	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	**47 J**	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	**71 J**	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	**810**	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	8.0 U	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	**510**	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	**56**	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	**430**	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	**51 J**	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	**91**	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	**48**	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	**180**	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	**1400 J**	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	**3800 J**	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	**1400 J**	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	**8700 J**	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	**1800 J**	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	**7600 J**	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	**2800 J**	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	**7900 J**	-	-	-	-	-	-
Asbestos								
Chrysotile asbestos	%	1 <	-	-	-	-	-	-
Geotechnical								
Coarse sand	%	-	**10.7**	**14.2**	-	-	-	-
Fine sand	%	-	**19.1**	**15.7**	-	-	-	-
Fines	%	-	**11.8**	**10.6**	-	-	-	-
Gravel	%	-	**33.8**	**40.1**	-	-	-	-

Table 13

Summary of Detections
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH142-18**	**GP01-18**	**GP32-18**	**TP-5**	**TP-5**	**TP-5**	**TP-6**
Sample ID:		**S-38443-010418-JC-027**	**S-38443-012518-JC-064**	**S-38443-011018-JC-037**	**S-38443-100608-KMV-054**	**S-38443-100608-KMV-055**	**S-38443-100608-KMV-056**	**S-38443-100608-KMV-057**
Sample Date:		**1/4/2018**	**1/25/2018**	**1/10/2018**	**10/6/2008**	**10/6/2008**	**10/6/2008**	**10/6/2008**
Sample Depth:		**8-10 ft BGS**	**5.5-6.5 ft bgs**	**10-11 ft BGS**	**8 ft BGS**	**12 ft BGS**	**17 ft BGS**	**11 ft BGS**
Parameters	**Units**							
Medium sand	%	-	**24.6**	**19.4**	-	-	-	-
Sand	%	-	**54.4**	**49.3**	-	-	-	-
Sieve, #4	% passed	-	**66.2**	**59.9**	-	-	-	-
Sieve, #10	% passed	-	**55.5**	**45.7**	-	-	-	-
Sieve, #20	% passed	-	**43.2**	**36.0**	-	-	-	-
Sieve, #40	% passed	-	**30.9**	**26.3**	-	-	-	-
Sieve, #60	% passed	-	**22.9**	**19.9**	-	-	-	-
Sieve, #80	% passed	-	**19.2**	**16.8**	-	-	-	-
Sieve, #100	% passed	-	**17.2**	**15.4**	-	-	-	-
Sieve, #200	% passed	-	**11.8**	**10.6**	-	-	-	-
Sieve, 0.375 inch	% passed	-	**78.4**	**81.3**	-	-	-	-
Sieve, 0.75 inch	% passed	-	**100.0**	**100.0**	-	-	-	-
Sieve, 1 inch	% passed	-	**100.0**	**100.0**	-	-	-	-
Sieve, 1.5 inch	% passed	-	**100.0**	**100.0**	-	-	-	-
Sieve, 2 inch	% passed	-	**100.0**	**100.0**	-	-	-	-
Sieve, 3 inch	% passed	-	**100.0**	**100.0**	-	-	-	-
General Chemistry								
Cellulose	%	-	-	-	-	-	-	-
Cyanide (total)	mg/kg	**0.12 J**	-	-	-	**6.0**	**0.74**	0.62 U
Fraction organic carbon (FOC)	%	-	**11.2**	**2.7**	-	-	-	-
Total solids	%	-	-	-	-	**78.3**	**96.3**	**81.2**

Notes
< - Less than reported value.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 13

Summary of Detections
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TP-6**	**TT-7**	**TT-7**	**TT-21**	**TT-21**	**TT-22**
Sample ID:		**S-38443-100608-KMV-058**	**S-38443-100708-KMV-061**	**S-38443-100708-KMV-063**	**S-38443-100808-KMV-068**	**S-38443-100808-KMV-069**	**S-38443-100808-KMV-066**
Sample Date:		**10/6/2008**	**10/7/2008**	**10/7/2008**	**10/8/2008**	**10/8/2008**	**10/8/2008**
Sample Depth:		**20 ft BGS**	**6 ft BGS**	**16 ft BGS**	**8 ft BGS**	**21 ft BGS**	**6 ft BGS**
Parameters	**Units**						
Volatiles							
1,1,2-Trichloroethane	ug/kg	4.2 U	1800 U	280 U	320 U	980 U	1800 U
1,1-Dichloroethane	ug/kg	4.2 U	1800 U	280 U	320 U	980 U	1800 U
1,1-Dichloroethene	ug/kg	4.2 U	1800 U	280 U	320 U	980 U	1800 U
1,2,4-Trichlorobenzene	ug/kg	4.2 U	1800 U	280 U	320 U	980 U	1800 U
1,2-Dichlorobenzene	ug/kg	4.2 U	1800 U	280 U	**47 J**	980 U	1800 U
1,2-Dichloroethane	ug/kg	4.2 U	1800 U	280 U	320 U	980 U	1800 U
1,2-Dichloropropane	ug/kg	4.2 U	1800 U	280 U	320 U	980 U	1800 U
1,3-Dichlorobenzene	ug/kg	4.2 U	1800 U	280 U	320 U	980 U	1800 U
1,4-Dichlorobenzene	ug/kg	4.2 U	**89 J**	**19 J**	**17 J**	**55 J**	1800 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	17 U	7100 U	1100 U	1300 U	3900 U	7100 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	17 U	7100 U	1100 U	1300 U	3900 U	7100 U
Acetone	ug/kg	17 U	7100 U	1100 U	1300 UJ	3900 UJ	7100 UJ
Benzene	ug/kg	**0.36 J**	1800 U	**94 J**	**210 J**	**360 J**	**530 J**
Carbon disulfide	ug/kg	**1.2 J**	1800 U	280 U	320 U	980 U	1800 U
Chlorobenzene	ug/kg	4.2 U	**47000**	**1900**	**14 J**	**42 J**	1800 U
Chloroethane	ug/kg	4.2 U	1800 U	280 U	320 U	980 U	1800 U
cis-1,2-Dichloroethene	ug/kg	**1.7 J**	1800 U	**20 J**	**690**	**1400**	**150 J**
Cyclohexane	ug/kg	8.5 U	3600 U	560 U	650 U	2000 U	3600 U
Ethylbenzene	ug/kg	4.2 U	**220 J**	**28 J**	**2500**	**18000**	**54000**
Isopropyl benzene	ug/kg	4.2 U	1800 U	**81 J**	**290 J**	**3300**	**2200**
Methyl acetate	ug/kg	8.5 U	3600 U	**140 J**	**78 J**	2000 U	3600 U
Methyl cyclohexane	ug/kg	**0.72 J**	3600 U	**59 J**	**210 J**	**1400 J**	**4200**
Methylene chloride	ug/kg	4.2 U	1800 U	**190 J**	320 U	980 U	1800 U
Tetrachloroethene	ug/kg	4.2 U	1800 U	280 U	320 U	980 U	1800 U
Toluene	ug/kg	**0.28 J**	1800 U	**33 J**	**140 J**	**770 J**	**2900**
trans-1,2-Dichloroethene	ug/kg	**0.53 J**	1800 U	280 U	**56 J**	**130 J**	1800 U
Trichloroethene	ug/kg	**0.68 J**	1800 U	**240 J**	**400**	**790 J**	1800 U
Vinyl chloride	ug/kg	**0.58 J**	1800 U	280 U	**130 J**	**490 J**	1800 U
Xylenes (total)	ug/kg	**1.1 J**	**710 J**	**140 J**	**3600**	**61000**	**6300**
Semi-Volatiles							
2-Methylnaphthalene	ug/kg	6.9 U	**300**	56 U	82 U	160 U	**420**
2-Methylphenol	ug/kg	210 UJ	5100 UJ	1700 U	2500 U	4900 U	6000 U
3&4-Methylphenol	ug/kg	-	-	-	-	-	-
Acenaphthene	ug/kg	6.9 U	**2600**	**1700**	82 U	160 U	200 U
Acenaphthylene	ug/kg	6.9 U	170 U	56 U	82 U	160 U	200 U
Acetophenone	ug/kg	100 U	2600 U	840 U	1200 U	2400 U	3000 U
Anthracene	ug/kg	6.9 U	**2900**	**2000**	82 U	160 U	200 U
Benzaldehyde	ug/kg	100 U	2600 U	840 U	1200 U	2400 U	3000 U
Benzo(a)anthracene	ug/kg	6.9 U	**6400**	**3500**	82 U	160 U	200 U
Benzo(a)pyrene	ug/kg	6.9 U	**4500**	**2500**	82 U	160 U	**540**
Benzo(b)fluoranthene	ug/kg	6.9 U	**6200**	**3300**	**160**	160 U	**690**
Benzo(g,h,i)perylene	ug/kg	6.9 U	**2300**	**1400**	82 U	160 U	**510**
Benzo(k)fluoranthene	ug/kg	6.9 U	**2400**	**1400**	82 U	160 U	**310**
Biphenyl (1,1-Biphenyl)	ug/kg	52 U	1300 U	420 U	620 U	1200 U	1500 U

Table 13

Summary of Detections
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TP-6**	**TT-7**	**TT-7**	**TT-21**	**TT-21**	**TT-22**
Sample ID:		**S-38443-100608-KMV-058**	**S-38443-100708-KMV-061**	**S-38443-100708-KMV-063**	**S-38443-100808-KMV-068**	**S-38443-100808-KMV-069**	**S-38443-100808-KMV-066**
Sample Date:		**10/6/2008**	**10/7/2008**	**10/7/2008**	**10/8/2008**	**10/8/2008**	**10/8/2008**
Sample Depth:		**20 ft BGS**	**6 ft BGS**	**16 ft BGS**	**8 ft BGS**	**21 ft BGS**	**6 ft BGS**
Parameters	**Units**						
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	52 U	1300 U	420 U	620 U	1200 U	1500 U
Carbazole	ug/kg	52 U	1300 U	**250 J**	620 U	1200 U	1500 U
Chrysene	ug/kg	6.9 U	**5700**	**2800**	82 U	160 U	**510**
Dibenz(a,h)anthracene	ug/kg	6.9 U	170 U	**540**	82 U	160 U	200 U
Dibenzofuran	ug/kg	52 U	**860 J**	**760**	620 U	1200 U	1500 U
Diethyl phthalate	ug/kg	52 U	1300 U	420 U	620 U	1200 U	1500 U
Dimethyl phthalate	ug/kg	52 U	1300 U	420 U	620 U	1200 U	1500 U
Di-n-butylphthalate (DBP)	ug/kg	52 U	1300 U	420 U	620 U	1200 U	1500 U
Fluoranthene	ug/kg	6.9 U	**21000**	**12000**	**230**	160 U	**880**
Fluorene	ug/kg	6.9 U	**2000**	**1600**	82 U	160 U	200 U
Hexachlorobenzene	ug/kg	6.9 U	170 U	56 U	82 U	160 U	200 U
Indeno(1,2,3-cd)pyrene	ug/kg	6.9 U	**2300**	**1300**	82 U	160 U	**390**
Naphthalene	ug/kg	6.9 U	**270**	56 U	82 U	**250**	**860**
N-Nitrosodiphenylamine	ug/kg	**53**	1300 U	420 U	620 U	1200 U	1500 U
Phenanthrene	ug/kg	6.9 U	**6800**	**5700**	**150**	**200**	**350**
Phenol	ug/kg	52 U	**970 J**	420 U	620 U	1200 U	1500 U
Pyrene	ug/kg	6.9 U	**13000**	**8300**	**210**	**240**	**700**
Metals							
Aluminum	mg/kg	**2140**	**6160**	**8370**	**6080**	**6420**	**20700**
Antimony	mg/kg	6.2 UJ	**22.6 J**	**5.6 J**	**4.7 J**	**22.0 J**	**191 J**
Arsenic	mg/kg	**4.0**	**19.4**	**38.8**	**13.6**	**12.8**	**13.4**
Barium	mg/kg	**26.9**	**971**	**675**	**622**	**501**	**1400**
Beryllium	mg/kg	0.52 U	**0.52 J**	**0.38 J**	**1.0 J**	**0.59 J**	**0.50 J**
Cadmium	mg/kg	**0.35 J**	**10.1 J**	**5.3 J**	**2.1 J**	**64.0 J**	**11.2 J**
Calcium	mg/kg	**131000**	**59700**	**50900**	**36900**	**34200**	**50200**
Chromium	mg/kg	**5.2 J**	**63.1 J**	**49.2 J**	**62.7 J**	**38.0 J**	**101 J**
Chromium III (trivalent)	mg/kg	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-
Cobalt	mg/kg	**2.5 J**	**11.9**	**14.0**	**6.1 J**	**11.6 J**	**11.9 J**
Copper	mg/kg	**13.4 J**	**7340 J**	**659 J**	**209**	**1940**	**2290**
Iron	mg/kg	**7220**	**72100**	**83300**	**16800**	**25200**	**42100**
Lead	mg/kg	**25.1**	**2380**	**749**	**604**	**2210**	**6180**
Magnesium	mg/kg	**44600**	**20500**	**15700**	**14100 J**	**10300 J**	**18400 J**
Manganese	mg/kg	**211 J**	**557 J**	**598 J**	**291**	**408**	**554**
Mercury	mg/kg	**0.030 J**	**2.6**	**0.25**	**0.22**	**0.20**	**0.32**
Nickel	mg/kg	**6.5 J**	**87.9 J**	**71.6 J**	**19.3 J**	**459 J**	**145 J**
Potassium	mg/kg	**459 J**	**1090**	**1350**	**936**	**2360**	**660 J**
Selenium	mg/kg	25.9 U	161 U	158 U	**3.3 J**	**0.91 J**	37.5 U
Silver	mg/kg	1.0 U	**2.5**	**4.5**	**0.81 J**	**1.9 J**	**5.0 J**
Sodium	mg/kg	**175 J**	**833**	**882**	**303 J**	**1060**	**683 J**
Thallium	mg/kg	0.10 U	**0.20**	**0.17**	0.23 U	0.61 U	3.0 U
Vanadium	mg/kg	**8.2**	**22.1 J**	**18.2 J**	**26.0**	**19.6**	**19.1**
Zinc	mg/kg	**230**	**1790**	**1460**	**739**	**1160**	**1630**
PCBs							

Table 13

Summary of Detections
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TP-6**	**TT-7**	**TT-7**	**TT-21**	**TT-21**	**TT-22**
Sample ID:		**S-38443-100608-KMV-058**	**S-38443-100708-KMV-061**	**S-38443-100708-KMV-063**	**S-38443-100808-KMV-068**	**S-38443-100808-KMV-069**	**S-38443-100808-KMV-066**
Sample Date:		**10/6/2008**	**10/7/2008**	**10/7/2008**	**10/8/2008**	**10/8/2008**	**10/8/2008**
Sample Depth:		**20 ft BGS**	**6 ft BGS**	**16 ft BGS**	**8 ft BGS**	**21 ft BGS**	**6 ft BGS**
Parameters	**Units**						
Aroclor-1242 (PCB-1242)	ug/kg	34 U	**1700**	**15000**	41 U	400 U	50 U
Aroclor-1248 (PCB-1248)	ug/kg	34 U	210 U	4200 U	41 U	400 U	50 U
Aroclor-1254 (PCB-1254)	ug/kg	34 UJ	**1600**	**4700**	**120 J**	400 U	**51**
Aroclor-1260 (PCB-1260)	ug/kg	34 UJ	210 U	4200 U	41 U	400 U	50 U
Pesticides							
4,4'-DDE	ug/kg	8.8 U	**93 J**	**28 J**	210 U	210 U	260 U
4,4'-DDT	ug/kg	8.8 UJ	220 UJ	110 UJ	210 U	210 U	260 U
delta-BHC	ug/kg	8.8 U	220 U	110 U	210 U	210 U	260 U
Dieldrin	ug/kg	8.8 U	220 U	**38 J**	210 U	210 U	260 U
Dioxin/Furans							
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-
Asbestos							
Chrysotile asbestos	%	-	-	-	-	-	-
Geotechnical							
Coarse sand	%	-	-	-	-	-	-
Fine sand	%	-	-	-	-	-	-
Fines	%	-	-	-	-	-	-
Gravel	%	-	-	-	-	-	-

Table 13

Summary of Detections
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TP-6**	**TT-7**	**TT-7**	**TT-21**	**TT-21**	**TT-22**
Sample ID:		**S-38443-100608-KMV-058**	**S-38443-100708-KMV-061**	**S-38443-100708-KMV-063**	**S-38443-100808-KMV-068**	**S-38443-100808-KMV-069**	**S-38443-100808-KMV-066**
Sample Date:		**10/6/2008**	**10/7/2008**	**10/7/2008**	**10/8/2008**	**10/8/2008**	**10/8/2008**
Sample Depth:		**20 ft BGS**	**6 ft BGS**	**16 ft BGS**	**8 ft BGS**	**21 ft BGS**	**6 ft BGS**
Parameters	**Units**						
Medium sand	%	-	-	-	-	-	-
Sand	%	-	-	-	-	-	-
Sieve, #4	% passed	-	-	-	-	-	-
Sieve, #10	% passed	-	-	-	-	-	-
Sieve, #20	% passed	-	-	-	-	-	-
Sieve, #40	% passed	-	-	-	-	-	-
Sieve, #60	% passed	-	-	-	-	-	-
Sieve, #80	% passed	-	-	-	-	-	-
Sieve, #100	% passed	-	-	-	-	-	-
Sieve, #200	% passed	-	-	-	-	-	-
Sieve, 0.375 inch	% passed	-	-	-	-	-	-
Sieve, 0.75 inch	% passed	-	-	-	-	-	-
Sieve, 1 inch	% passed	-	-	-	-	-	-
Sieve, 1.5 inch	% passed	-	-	-	-	-	-
Sieve, 2 inch	% passed	-	-	-	-	-	-
Sieve, 3 inch	% passed	-	-	-	-	-	-
General Chemistry							
Cellulose	%	-	-	-	-	-	-
Cyanide (total)	mg/kg	0.52 U	0.64 U	**1.4**	**3.4**	**0.51 J**	**0.28 J**
Fraction organic carbon (FOC)	%	-	-	-	-	-	-
Total solids	%	**96.7**	**77.7**	**79.3**	**81.0**	**82.2**	**66.6**

Notes
< - Less than reported value.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 13

Summary of Detections
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-22**	**TT-24**	**TT-24**	**VAS-5**
Sample ID:		**S-38443-100808-KMV-067**	**SO-38443-032018-BW-002**	**SO-38443-032018-BW-001**	**S-38443-121508-KMV-096**
Sample Date:		**10/8/2008**	**3/20/2018**	**3/20/2018**	**12/15/2008**
Sample Depth:		**21 ft BGS**	**2-4 ft bgs**	**13-15 ft BGS**	**7 ft BGS**
Parameters	**Units**				
Volatiles					
1,1,2-Trichloroethane	ug/kg	360 U	0.42 U	990 U	-
1,1-Dichloroethane	ug/kg	**66 J**	0.36 U	1300 U	-
1,1-Dichloroethene	ug/kg	360 U	0.59 U	1600 U	-
1,2,4-Trichlorobenzene	ug/kg	360 U	0.26 U	1100 U	-
1,2-Dichlorobenzene	ug/kg	360 U	0.24 U	780 U	-
1,2-Dichloroethane	ug/kg	360 U	0.32 U	1300 U	-
1,2-Dichloropropane	ug/kg	360 U	0.34 U	1300 U	-
1,3-Dichlorobenzene	ug/kg	360 U	0.32 U	1600 U	-
1,4-Dichlorobenzene	ug/kg	360 U	0.38 U	1200 U	-
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	1400 U	**4.3 J**	2200 U	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	**530 J**	0.97 U	1700 U	-
Acetone	ug/kg	1400 UJ	18 U	4200 U	-
Benzene	ug/kg	**290 J**	0.35 U	1000 U	-
Carbon disulfide	ug/kg	360 U	**0.91 J**	780 U	-
Chlorobenzene	ug/kg	360 U	0.36 U	1300 U	-
Chloroethane	ug/kg	360 U	0.41 U	1200 U	-
cis-1,2-Dichloroethene	ug/kg	360 U	**0.39 J**	1500 U	-
Cyclohexane	ug/kg	**750**	0.23 U	1300 U	-
Ethylbenzene	ug/kg	**1500**	**6.8**	**210000 J**	-
Isopropyl benzene	ug/kg	**180 J**	**0.41 J**	**15000 J**	-
Methyl acetate	ug/kg	**160 J**	1.3 U	3200 U	-
Methyl cyclohexane	ug/kg	**1700**	**0.44 J**	**14000 J**	-
Methylene chloride	ug/kg	360 U	**30**	6100 U	-
Tetrachloroethene	ug/kg	360 U	**0.56 J**	910 U	-
Toluene	ug/kg	**540**	**1.1 J**	**6500 J**	-
trans-1,2-Dichloroethene	ug/kg	360 U	0.41 U	1500 U	-
Trichloroethene	ug/kg	360 U	**0.51 J**	1600 U	-
Vinyl chloride	ug/kg	**61 J**	0.30 U	730 U	-
Xylenes (total)	ug/kg	**1700**	**23**	**590000 J**	-
Semi-Volatiles					
2-Methylnaphthalene	ug/kg	**290**	**17 J**	**4800**	-
2-Methylphenol	ug/kg	2800 U	45 U	690 U	-
3&4-Methylphenol	ug/kg	-	83 U	1200 U	-
Acenaphthene	ug/kg	93 U	**33**	**470**	-
Acenaphthylene	ug/kg	93 U	1.4 U	22 U	-
Acetophenone	ug/kg	1400 U	38 U	570 U	-
Anthracene	ug/kg	93 U	**66**	49 U	-
Benzaldehyde	ug/kg	1400 U	50 U	750 U	-
Benzo(a)anthracene	ug/kg	**240**	**220**	39 U	-
Benzo(a)pyrene	ug/kg	**270**	**270**	40 U	-
Benzo(b)fluoranthene	ug/kg	**310**	**470**	37 U	-
Benzo(g,h,i)perylene	ug/kg	**220**	**210**	22 U	-
Benzo(k)fluoranthene	ug/kg	**150**	**160**	42 U	-
Biphenyl (1,1-Biphenyl)	ug/kg	700 U	**15 J**	**740 J**	-

Table 13

Summary of Detections
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-22**	**TT-24**	**TT-24**	**VAS-5**
Sample ID:		**S-38443-100808-KMV-067**	**SO-38443-032018-BW-002**	**SO-38443-032018-BW-001**	**S-38443-121508-KMV-096**
Sample Date:		**10/8/2008**	**3/20/2018**	**3/20/2018**	**12/15/2008**
Sample Depth:		**21 ft BGS**	**2-4 ft bgs**	**13-15 ft BGS**	**7 ft BGS**
Parameters	**Units**				
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	700 U	1920 U	4000 U	-
Carbazole	ug/kg	700 U	110 U	1700 U	-
Chrysene	ug/kg	**250**	**260**	69 U	-
Dibenz(a,h)anthracene	ug/kg	93 U	**53**	41 U	-
Dibenzofuran	ug/kg	700 U	2.7 U	41 U	-
Diethyl phthalate	ug/kg	700 U	66 U	1000 U	-
Dimethyl phthalate	ug/kg	700 U	70 U	1100 U	-
Di-n-butylphthalate (DBP)	ug/kg	700 U	62 U	**6000**	-
Fluoranthene	ug/kg	**570**	**560**	**1200**	-
Fluorene	ug/kg	93 U	**41**	**290 J**	-
Hexachlorobenzene	ug/kg	93 U	8.7 U	130 U	-
Indeno(1,2,3-cd)pyrene	ug/kg	**190**	**190**	22 U	-
Naphthalene	ug/kg	**430**	**14 J**	**9800**	-
N-Nitrosodiphenylamine	ug/kg	700 U	87 U	1300 U	-
Phenanthrene	ug/kg	**250**	**130**	**1400**	-
Phenol	ug/kg	700 U	30 U	450 U	-
Pyrene	ug/kg	**420**	**590**	**1000**	-
Metals					
Aluminum	mg/kg	**6400**	**2600**	**6600**	-
Antimony	mg/kg	**4.1 J**	**0.50 J**	**0.61 J**	-
Arsenic	mg/kg	**33.1**	**7.8**	**13**	-
Barium	mg/kg	**377**	**54**	**320**	-
Beryllium	mg/kg	**2.5 J**	**0.23**	**3.2**	-
Cadmium	mg/kg	**21.7 J**	**0.53**	**0.86**	-
Calcium	mg/kg	**14700**	**140000 J**	**2600 J**	-
Chromium	mg/kg	**32.5 J**	**9.0**	**23**	-
Chromium III (trivalent)	mg/kg	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-
Cobalt	mg/kg	**14.1 J**	**3.2**	**9.2**	-
Copper	mg/kg	**518**	**29**	**210**	-
Iron	mg/kg	**9140**	**7800**	**5700**	-
Lead	mg/kg	**252**	**48**	**69**	-
Magnesium	mg/kg	**4680 J**	**45000**	**800**	-
Manganese	mg/kg	**80.6**	**240**	**37**	-
Mercury	mg/kg	**0.37**	**0.035 J**	**0.70**	-
Nickel	mg/kg	**25.2 J**	**10**	**19**	-
Potassium	mg/kg	**830**	**470 J**	**970 J**	-
Selenium	mg/kg	**7.6 J**	**0.54 J**	**4.5**	-
Silver	mg/kg	1.4 U	**0.14 J**	**0.28**	-
Sodium	mg/kg	**193 J**	**160 J**	**290**	-
Thallium	mg/kg	**0.53**	**0.18 J**	**0.50**	-
Vanadium	mg/kg	**44.4**	**12**	**33**	-
Zinc	mg/kg	**513**	**57**	**240**	-
PCBs					

Table 13

Summary of Detections
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-22**	**TT-24**	**TT-24**	**VAS-5**
Sample ID:		**S-38443-100808-KMV-067**	**SO-38443-032018-BW-002**	**SO-38443-032018-BW-001**	**S-38443-121508-KMV-096**
Sample Date:		**10/8/2008**	**3/20/2018**	**3/20/2018**	**12/15/2008**
Sample Depth:		**21 ft BGS**	**2-4 ft bgs**	**13-15 ft BGS**	**7 ft BGS**
Parameters	**Units**				
Aroclor-1242 (PCB-1242)	ug/kg	46 U	19 U	120 U	-
Aroclor-1248 (PCB-1248)	ug/kg	46 U	**160**	150 U	-
Aroclor-1254 (PCB-1254)	ug/kg	**53**	23 U	**2600**	-
Aroclor-1260 (PCB-1260)	ug/kg	46 U	**63**	130 U	-
Pesticides					
4,4'-DDE	ug/kg	240 U	12 U	29 U	-
4,4'-DDT	ug/kg	240 U	14 U	34 U	-
delta-BHC	ug/kg	240 U	13 U	32 U	-
Dieldrin	ug/kg	240 U	8.9 U	22 U	-
Dioxin/Furans					
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	**32**	**730**	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	**510**	**6300**	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	**21**	**870**	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	**68**	**1200**	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	**1.3 J**	**68**	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	**6.0**	**340**	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	**1.9 J**	**27 J**	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	**3.8 J**	**110 J**	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	**7.0**	**100**	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	0.34 U	1.0 U	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	**5.5**	**100**	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	**1.6 J**	**66**	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	**2.6 J**	**30 J**	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	**2.8**	**140**	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	**3.4**	**110**	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	**4.3**	**53**	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	**0.50 J**	**7.8 J**	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	**48 J**	**1700 J**	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	**140 J**	**2300 J**	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	**75 J**	**1400 J**	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	**74 J**	**1100 J**	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	**140 J**	**1500 J**	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	**100 J**	**1600 J**	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	**180 J**	**2000 J**	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	**12 J**	**400 J**	-
Asbestos					
Chrysotile asbestos	%	-	-	-	**60**
Geotechnical					
Coarse sand	%	-	-	-	-
Fine sand	%	-	-	-	-
Fines	%	-	-	-	-
Gravel	%	-	-	-	-

Table 13

Summary of Detections
Soil/Fill Samples - EU16
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-22**	**TT-24**	**TT-24**	**VAS-5**
Sample ID:		**S-38443-100808-KMV-067**	**SO-38443-032018-BW-002**	**SO-38443-032018-BW-001**	**S-38443-121508-KMV-096**
Sample Date:		**10/8/2008**	**3/20/2018**	**3/20/2018**	**12/15/2008**
Sample Depth:		**21 ft BGS**	**2-4 ft bgs**	**13-15 ft BGS**	**7 ft BGS**
Parameters	**Units**				
Medium sand	%	-	-	-	-
Sand	%	-	-	-	-
Sieve, #4	% passed	-	-	-	-
Sieve, #10	% passed	-	-	-	-
Sieve, #20	% passed	-	-	-	-
Sieve, #40	% passed	-	-	-	-
Sieve, #60	% passed	-	-	-	-
Sieve, #80	% passed	-	-	-	-
Sieve, #100	% passed	-	-	-	-
Sieve, #200	% passed	-	-	-	-
Sieve, 0.375 inch	% passed	-	-	-	-
Sieve, 0.75 inch	% passed	-	-	-	-
Sieve, 1 inch	% passed	-	-	-	-
Sieve, 1.5 inch	% passed	-	-	-	-
Sieve, 2 inch	% passed	-	-	-	-
Sieve, 3 inch	% passed	-	-	-	-
General Chemistry					
Cellulose	%	-	-	-	**20**
Cyanide (total)	mg/kg	**0.36 J**	0.15 U	**11**	-
Fraction organic carbon (FOC)	%	-	-	-	-
Total solids	%	**71.5**	-	-	-

Notes
< - Less than reported value.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 14

Summary of Detections
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:							BH30-13	BH31-13	BH31-13	BH31-13	BH162-18
Sample ID:							S-38443-070213-JT-087	S-38443-070113-JC-076	S-38443-070113-JC-077	S-38443-070113-JC-078	S-38443-050818-JC-071
Sample Date:							7/2/2013	7/1/2013	7/1/2013	7/1/2013	5/8/2018
Sample Depth:							29.5-31.5 ft BGS	18-20 ft BGS	18-20 ft BGS	26.5-28.5 ft BGS	16-18 ft BGS
									Duplicate		
Parameters	**Units**	**Samples**	**Detects**	**Min Detect**	**Max Detect**	**Average (Detects)**					
Volatiles											
1,1,1-Trichloroethane	ug/kg	43	1	2.7	2.7	2.700	4.5 U	260 U	250 U	5.5 U	0.22 U
1,4-Dichlorobenzene	ug/kg	40	1	1.2	1.2	1.200	4.5 U	260 U	250 U	5.5 U	0.34 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	43	4	3	60	29.400	18 U	**49 J**	**60 J**	**3.0 J**	1.2 U
Acetone	ug/kg	43	1	45	45	45.000	18 U	1000 U	1000 U	22 U	2.9 U
Benzene	ug/kg	43	2	0.45	1	0.725	**0.45 J**	260 U	250 U	5.5 U	0.31 U
Carbon disulfide	ug/kg	43	2	17	22	19.500	4.5 U	**17 J**	**22 J**	5.5 U	0.20 U
Chloroform (Trichloromethane)	ug/kg	43	1	0.66	0.66	0.660	4.5 U	260 U	250 U	5.5 U	0.22 U
cis-1,2-Dichloroethene	ug/kg	42	1	0.62	0.62	0.620	4.5 U	260 U	250 U	5.5 U	0.27 U
Cyclohexane	ug/kg	42	1	0.46	0.46	0.460	**0.46 J**	520 U	510 U	11 U	0.20 U
Ethylbenzene	ug/kg	42	3	0.71	18	10.570	**0.71 J**	**13 J**	**18 J**	5.5 U	0.26 U
Isopropyl benzene	ug/kg	41	2	51	73	62.000	4.5 U	**51 J**	**73 J**	5.5 U	0.19 U
Methyl acetate	ug/kg	42	3	1.6	210	127.200	9.0 U	**170 J**	**210 J**	**1.6 J**	1.1 U
Methyl cyclohexane	ug/kg	42	5	0.61	16	3.826	**0.87 J**	520 U	**16 J**	11 U	0.22 U
Methylene chloride	ug/kg	43	2	0.96	29	14.980	4.5 U	260 U	250 U	**0.96 J**	0.23 U
Tetrachloroethene	ug/kg	43	12	0.5	2500	222.825	**0.50 J**	**43 J**	**37 J**	5.5 U	0.36 U
Toluene	ug/kg	42	9	0.23	24	3.404	**1.6 J**	260 U	250 U	**0.52 J**	0.33 U
Trichloroethene	ug/kg	43	11	0.89	60	12.599	**4.7 J**	260 U	250 U	5.5 U	0.39 U
Xylenes (total)	ug/kg	42	6	0.98	83	14.997	9.0 U	520 U	**83 J**	11 U	0.38 U
Semi-Volatiles											
2-Methylnaphthalene	ug/kg	39	22	6.8	210	55.264	-	-	-	-	0.58 U
Acenaphthene	ug/kg	39	17	10	1500	224.000	-	-	-	-	0.88 U
Acenaphthylene	ug/kg	39	15	7	180	42.840	-	-	-	-	0.40 U
Acetophenone	ug/kg	38	5	14	22	16.400	-	-	-	-	11 U
Anthracene	ug/kg	39	26	4.8	3300	410.015	-	-	-	-	0.90 U
Benzaldehyde	ug/kg	38	3	15	30	24.000	-	-	-	-	14 UJ
Benzo(a)anthracene	ug/kg	39	34	8	7100	929.412	-	-	-	-	0.73 U
Benzo(a)pyrene	ug/kg	39	34	7.4	6000	710.503	-	-	-	-	0.74 U
Benzo(b)fluoranthene	ug/kg	39	36	7.1	8700	1032.503	-	-	-	-	0.68 U
Benzo(g,h,i)perylene	ug/kg	39	32	11	3600	440.063	-	-	-	-	0.40 U
Benzo(k)fluoranthene	ug/kg	39	29	9.3	2900	499.345	-	-	-	-	0.79 U
Biphenyl (1,1-Biphenyl)	ug/kg	38	4	6.3	27	14.825	-	-	-	-	4.0 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	39	14	25	5100	455.143	-	-	-	-	44 U
Butyl benzylphthalate (BBP)	ug/kg	39	7	75	1100	517.857	-	-	-	-	12 U
Carbazole	ug/kg	39	11	47	1700	409.455	-	-	-	-	31 U
Chrysene	ug/kg	39	35	8.1	6200	895.517	-	-	-	-	1.3 U
Dibenz(a,h)anthracene	ug/kg	39	17	15	1200	216.647	-	-	-	-	0.76 U
Dibenzofuran	ug/kg	39	13	15	890	174.615	-	-	-	-	0.76 U
Diethyl phthalate	ug/kg	39	1	150	150	150.000	-	-	-	-	19 U
Di-n-butylphthalate (DBP)	ug/kg	39	10	20	560	125.000	-	-	-	-	17 U
Fluoranthene	ug/kg	39	37	8.9	16000	1779.186	-	-	-	-	0.64 U
Fluorene	ug/kg	39	19	5.4	1500	196.147	-	-	-	-	0.61 U
Indeno(1,2,3-cd)pyrene	ug/kg	39	29	14	3500	463.586	-	-	-	-	0.40 U
Naphthalene	ug/kg	39	19	9.5	380	78.395	-	-	-	-	0.95 U

Table 14

Summary of Detections
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:							**BH30-13**	**BH31-13**	**BH31-13**	**BH31-13**	**BH162-18**
Sample ID:							**S-38443-070213-JT-087**	**S-38443-070113-JC-076**	**S-38443-070113-JC-077**	**S-38443-070113-JC-078**	**S-38443-050818-JC-071**
Sample Date:							**7/2/2013**	**7/1/2013**	**7/1/2013**	**7/1/2013**	**5/8/2018**
Sample Depth:							**29.5-31.5 ft BGS**	**18-20 ft BGS**	**18-20 ft BGS**	**26.5-28.5 ft BGS**	**16-18 ft BGS**
									Duplicate		
Parameters	**Units**	**Samples**	**Detects**	**Min Detect**	**Max Detect**	**Average (Detects)**					
Pentachlorophenol	ug/kg	39	1	110	110	110.000	-	-	-	-	11 U
Phenanthrene	ug/kg	39	33	7.9	13000	1184.512	-	-	-	-	0.84 U
Phenol	ug/kg	39	1	19	19	19.000	-	-	-	-	8.4 U
Pyrene	ug/kg	39	37	7.9	13000	1427.159	-	-	-	-	0.51 U
Metals											
Aluminum	mg/kg	39	39	1200	14800	6477.436	-	-	-	-	**7400**
Antimony	mg/kg	39	35	0.14	669	40.234	-	-	-	-	0.11 U
Arsenic	mg/kg	39	39	3.5	57.3	14.300	-	-	-	-	**6.7**
Barium	mg/kg	39	39	17.9	4370	490.995	-	-	-	-	**72**
Beryllium	mg/kg	39	36	0.058	4	1.038	-	-	-	-	**0.35**
Cadmium	mg/kg	39	38	0.11	46.1	6.602	-	-	-	-	**0.26**
Calcium	mg/kg	39	39	7780	217000	62450.769	-	-	-	-	**60000**
Chromium	mg/kg	39	39	3.2	138	28.662	-	-	-	-	**11**
Chromium III (trivalent)	mg/kg	11	11	8.6	99	31.782	-	-	-	-	**10**
Chromium VI (hexavalent)	mg/kg	11	3	0.31	0.72	0.457	-	-	-	-	**0.34 J**
Cobalt	mg/kg	39	39	2	67	10.646	-	-	-	-	**5.4**
Copper	mg/kg	39	39	8.1	43400	2003.551	-	-	-	-	**9.0**
Iron	mg/kg	39	39	6340	135000	23132.308	-	-	-	-	**15000**
Lead	mg/kg	39	39	5.4	14100	794.269	-	-	-	-	**7.4**
Lead - coarse fraction	mg/kg	5	5	20	4500	1119.000	-	-	-	-	-
Lead - fine fraction	mg/kg	5	5	47	2500	775.400	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	5	5	22	4100	1051.000	-	-	-	-	-
Magnesium	mg/kg	39	39	1750	84800	23632.051	-	-	-	-	**24000**
Manganese	mg/kg	39	39	80.3	1490	436.931	-	-	-	-	**510**
Mercury	mg/kg	39	32	0.016	2.2	0.247	-	-	-	-	0.021 U
Nickel	mg/kg	39	39	5.8	475	58.236	-	-	-	-	**12**
Potassium	mg/kg	39	39	277	2150	872.769	-	-	-	-	**580**
Selenium	mg/kg	39	22	0.29	20.1	2.069	-	-	-	-	**0.61 J**
Silver	mg/kg	39	26	0.022	5.5	1.071	-	-	-	-	**0.022 J**
Sodium	mg/kg	39	28	65	3110	414.900	-	-	-	-	**97 J**
Thallium	mg/kg	39	26	0.085	2.4	0.370	-	-	-	-	**0.14 J**
Vanadium	mg/kg	39	39	5	51.8	21.051	-	-	-	-	**17**
Zinc	mg/kg	39	39	22.8	21900	1212.015	-	-	-	-	**38**
TCLP Metals											
Barium	mg/L	1	1	1.2	1.2	1.200	-	-	-	-	-
Cadmium	mg/L	1	1	0.00071	0.00071	0.001	-	-	-	-	-
Selenium	mg/L	1	1	0.0048	0.0048	0.005	-	-	-	-	-
PCBs											
Aroclor-1248 (PCB-1248)	ug/kg	40	1	8100	8100	8100.000	-	-	-	-	28 U
Aroclor-1254 (PCB-1254)	ug/kg	40	18	35	1700	337.611	-	-	-	-	27 U
Aroclor-1260 (PCB-1260)	ug/kg	40	6	23	1300	397.833	-	-	-	-	25 U

Table 14

Summary of Detections
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:							BH30-13	BH31-13	BH31-13	BH31-13	BH162-18
Sample ID:							S-38443-070213-JT-087	S-38443-070113-JC-076	S-38443-070113-JC-077	S-38443-070113-JC-078	S-38443-050818-JC-071
Sample Date:							7/2/2013	7/1/2013	7/1/2013	7/1/2013	5/8/2018
Sample Depth:							29.5-31.5 ft BGS	18-20 ft BGS	18-20 ft BGS	26.5-28.5 ft BGS	16-18 ft BGS
									Duplicate		
Parameters	**Units**	**Samples**	**Detects**	**Min Detect**	**Max Detect**	**Average (Detects)**					
Pesticides											
4,4'-DDD	ug/kg	39	1	8.6	8.6	8.600	-	-	-	-	1.7 U
4,4'-DDE	ug/kg	39	10	0.44	52	24.824	-	-	-	-	1.7 U
4,4'-DDT	ug/kg	39	9	0.71	820	109.423	-	-	-	-	1.3 U
alpha-Chlordane	ug/kg	39	2	12	13	12.500	-	-	-	-	1.7 U
Dieldrin	ug/kg	39	7	7.2	65	22.600	-	-	-	-	1.3 U
Endrin	ug/kg	39	1	2.6	2.6	2.600	-	-	-	-	2.2 U
Endrin aldehyde	ug/kg	39	4	1.7	5.1	3.450	-	-	-	-	1.5 U
Endrin ketone	ug/kg	39	1	89	89	89.000	-	-	-	-	1.0 U
gamma-BHC (lindane)	ug/kg	39	1	18	18	18.000	-	-	-	-	2.0 U
gamma-Chlordane	ug/kg	39	4	1.4	30	13.600	-	-	-	-	1.4 U
Heptachlor epoxide	ug/kg	39	2	2.1	3.5	2.800	-	-	-	-	1.6 U
Methoxychlor	ug/kg	39	8	0.94	19	5.155	-	-	-	-	7.5 U
Herbicides											
2,4,5-TP (Silvex)	ug/kg	26	1	4.6	4.6	4.600	-	-	-	-	-
Dioxin/Furans											
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	3	1	56	56	56.000	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	3	3	23	340	132.667	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	3	2	11	250	130.500	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	3	2	9.4	110	59.700	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	3	3	0.083	12	4.294	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	3	3	0.27	170	57.523	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	3	3	0.11	8.9	3.130	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	3	3	0.46	53	18.187	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	3	3	0.2	17	6.400	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	3	3	0.35	25	8.817	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	3	2	0.87	36	18.435	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	3	1	10	10	10.000	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	3	3	0.19	75	25.363	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	3	3	0.15	89	30.117	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	3	3	0.24	57	19.580	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	3	3	0.078	4	1.393	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	3	3	1.7	320	114.900	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	3	3	3.8	220	81.600	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	3	3	8.2	620	215.733	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	3	3	3.2	260	92.400	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	3	3	17	1000	348.000	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	3	3	1.9	430	220.633	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	3	3	19	1900	656.000	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	3	3	0.63	230	79.043	-	-	-	-	-
Asbestos											
Chrysotile asbestos	%	2	2	0.25	1	0.625	-	-	-	-	-

Table 14

Summary of Detections
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:							**BH30-13**	**BH31-13**	**BH31-13**	**BH31-13**	**BH162-18**
Sample ID:							**S-38443-070213-JT-087**	**S-38443-070113-JC-076**	**S-38443-070113-JC-077**	**S-38443-070113-JC-078**	**S-38443-050818-JC-071**
Sample Date:							**7/2/2013**	**7/1/2013**	**7/1/2013**	**7/1/2013**	**5/8/2018**
Sample Depth:							**29.5-31.5 ft BGS**	**18-20 ft BGS**	**18-20 ft BGS**	**26.5-28.5 ft BGS**	**16-18 ft BGS**
									Duplicate		
Parameters	**Units**	**Samples**	**Detects**	**Min Detect**	**Max Detect**	**Average (Detects)**					
General Chemistry											
Cyanide (total)	mg/kg	36	17	0.19	13	2.294	-	-	-	-	0.24 U
Ignitability	deg F	1	1	140	140	140.000	-	-	-	-	-
pH corrosivity	s.u.	1	1	8.3	8.3	8.300	-	-	-	-	-
Sulfide	mg/kg	1	1	18.6	18.6	18.600	-	-	-	-	-
Total solids	%	22	22	75.6	96.1	89.682	-	-	-	-	-

Notes
< - Less than reported value.
> - Greater than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 14

Summary of Detections
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH163-18**	**S05(OEPA)**	**SS-1**	**SS-2**	**SS-3**	**SS-3**	**SS-4**
Sample ID:		**S-38443-050818-JC-070**	**96-DV-03-S05**	**S-38443-110917-BW-039**	**S-38443-110917-BW-037**	**S-38443-110917-BW-034**	**S-38443-110917-BW-035**	**SS-38443-122018-JC-004**
Sample Date:		**5/8/2018**	**7/9/1996**	**11/9/2017**	**11/9/2017**	**11/9/2017**	**11/9/2017**	**12/20/2018**
Sample Depth:		**17-19 ft BGS**	**5 ft BGS**	**0-2 ft BGS**	**0.2-2.2 ft BGS**	**0.3-2.3 ft BGS**	**0.3-2.3 ft BGS**	**0-2 ft BGS**
							Duplicate	
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/kg	0.24 U	12 U	0.29 U	0.50 U	0.36 U	0.35 U	1.0 U
1,4-Dichlorobenzene	ug/kg	0.36 U	380 U	0.44 U	R	0.55 U	0.54 U	1.1 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	**5.6 J**	12 U	1.6 U	2.8 U	2.0 U	2.0 U	4.3 U
Acetone	ug/kg	**45**	12 U	11 U	13 U	18 U	18 U	26 U
Benzene	ug/kg	0.33 U	12 U	0.40 U	0.70 U	0.51 U	0.49 U	0.85 U
Carbon disulfide	ug/kg	0.22 U	12 U	0.26 U	0.46 U	0.33 U	0.32 U	1.4 U
Chloroform (Trichloromethane)	ug/kg	0.24 U	12 U	0.29 U	0.50 U	0.36 U	0.35 U	0.96 U
cis-1,2-Dichloroethene	ug/kg	0.29 U	-	0.35 U	0.61 U	0.44 U	0.43 U	0.79 U
Cyclohexane	ug/kg	0.22 U	-	0.26 U	0.46 U	0.33 U	0.32 U	1.7 U
Ethylbenzene	ug/kg	0.28 U	12 U	0.34 U	0.59 U	0.43 U	0.42 U	1.3 U
Isopropyl benzene	ug/kg	0.21 U	-	0.25 U	0.43 U	0.32 U	0.31 U	1.0 U
Methyl acetate	ug/kg	1.2 U	-	1.5 U	2.5 U	1.9 U	1.8 U	4.1 U
Methyl cyclohexane	ug/kg	0.24 U	-	0.29 U	0.50 U	0.36 U	0.35 U	1.5 U
Methylene chloride	ug/kg	0.25 U	12 JBU	1.7 U	4.4 U	2.0 U	2.0 U	15 U
Tetrachloroethene	ug/kg	0.38 U	12 U	0.47 U	0.80 U	0.59 U	0.57 U	**1.5 J**
Toluene	ug/kg	**1.1 J**	12 U	0.43 U	0.74 U	0.54 U	0.52 U	0.94 U
Trichloroethene	ug/kg	0.42 U	12 U	0.52 U	0.89 U	0.65 U	0.63 U	0.77 U
Xylenes (total)	ug/kg	0.41 U	12 U	0.50 U	0.87 U	0.63 U	0.62 U	1.9 U
Semi-Volatiles								
2-Methylnaphthalene	ug/kg	0.61 U	380 U	**27**	**30**	**63**	**75**	**17 J**
Acenaphthene	ug/kg	0.93 U	380 U	**17**	**19**	**14**	6.4 U	**17 J**
Acenaphthylene	ug/kg	0.43 U	380 U	**33**	0.48 U	**11**	2.9 U	**10 J**
Acetophenone	ug/kg	11 U	-	10 U	**14 J**	**14 J**	78 U	14 U
Anthracene	ug/kg	0.95 U	380 U	**65**	**49**	**52**	**130**	**34**
Benzaldehyde	ug/kg	**15 J**	-	13 U	16 U	15 U	100 U	29 U
Benzo(a)anthracene	ug/kg	0.77 U	380 U	**280**	**140**	**200 J**	**1000 J**	**170**
Benzo(a)pyrene	ug/kg	0.78 U	380 U	**270**	**120**	**210 J**	**720 J**	**210**
Benzo(b)fluoranthene	ug/kg	0.72 U	380 U	**370**	**180**	**340 J**	**1200 J**	**300**
Benzo(g,h,i)perylene	ug/kg	0.43 U	380 U	**210**	**86**	**190 J**	**570 J**	**170**
Benzo(k)fluoranthene	ug/kg	0.83 U	380 U	**150**	**82**	**120 J**	**430 J**	**110**
Biphenyl (1,1-Biphenyl)	ug/kg	4.3 U	-	3.9 U	**6.3 J**	**13 J**	29 U	21 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	46 U	380 U	**27 J**	**81 J**	**110 J**	**5100 J**	**100**
Butyl benzylphthalate (BBP)	ug/kg	12 U	380 U	11 U	14 U	12 U	84 U	28 U
Carbazole	ug/kg	33 U	380 U	30 U	37 U	34 U	230 U	24 U
Chrysene	ug/kg	1.3 U	**27 J**	**290**	**150**	**270 J**	**1200 J**	**230**
Dibenz(a,h)anthracene	ug/kg	0.80 U	380 U	**54**	0.90 U	**54**	5.6 U	**39**
Dibenzofuran	ug/kg	0.80 U	380 U	**15 J**	**20 J**	**28 J**	5.6 U	16 U
Diethyl phthalate	ug/kg	19 U	380 U	18 U	22 U	20 U	130 U	39 U
Di-n-butylphthalate (DBP)	ug/kg	18 U	380 U	**20 J**	**45 J**	**88**	**150 J**	28 U
Fluoranthene	ug/kg	0.67 U	**31 J**	**540**	**320**	**310 J**	**1800 J**	**380**
Fluorene	ug/kg	0.65 U	380 U	**17**	**19**	**9.1**	4.5 U	**11 J**
Indeno(1,2,3-cd)pyrene	ug/kg	0.43 U	380 U	**180**	**68**	**150 J**	**500 J**	**160**
Naphthalene	ug/kg	1.0 U	380 U	**21**	**30**	**58**	**80**	**20**

Table 14

Summary of Detections
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH163-18**	**S05(OEPA)**	**SS-1**	**SS-2**	**SS-3**	**SS-3**	**SS-4**
Sample ID:		**S-38443-050818-JC-070**	**96-DV-03-S05**	**S-38443-110917-BW-039**	**S-38443-110917-BW-037**	**S-38443-110917-BW-034**	**S-38443-110917-BW-035**	**SS-38443-122018-JC-004**
Sample Date:		**5/8/2018**	**7/9/1996**	**11/9/2017**	**11/9/2017**	**11/9/2017**	**11/9/2017**	**12/20/2018**
Sample Depth:		**17-19 ft BGS**	**5 ft BGS**	**0-2 ft BGS**	**0.2-2.2 ft BGS**	**0.3-2.3 ft BGS**	**0.3-2.3 ft BGS**	**0-2 ft BGS**
							Duplicate	
Parameters	**Units**							
Pentachlorophenol	ug/kg	11 U	960 U	10 U	12 U	11 U	77 U	73 U
Phenanthrene	ug/kg	0.89 U	**21 J**	**200**	**220**	**190 J**	**800 J**	**160**
Phenol	ug/kg	8.9 U	380 U	8.1 U	9.9 U	9.1 U	62 U	10 U
Pyrene	ug/kg	0.54 U	**30 J**	**440**	**280**	**310 J**	**1500 J**	**290**
Metals								
Aluminum	mg/kg	**6100**	**9920**	**4700 J**	**6300 J**	**5900 J**	**4300 J**	**6500**
Antimony	mg/kg	**0.14 J**	**3.5 B**	**0.63 J**	**2.0 J**	**6.9 J**	**1.6 J**	**0.20**
Arsenic	mg/kg	**4.0**	**12.2**	**7.3 J**	**25 J**	**16 J**	**12 J**	**6.2**
Barium	mg/kg	**86**	**268**	**87 J**	**380 J**	**900 J**	**320 J**	**130**
Beryllium	mg/kg	**0.35**	**0.68 B**	**0.48**	**3.9**	**1.5**	**2.9**	**0.57**
Cadmium	mg/kg	**0.31**	0.23 U	**0.37 J**	**4.0 J**	**5.0 J**	**0.79 J**	**0.54**
Calcium	mg/kg	**45000**	**25500**	**110000 J**	**8100 J**	**56000 J**	**44000 J**	**71000**
Chromium	mg/kg	**8.6**	**12.6**	**9.4 J**	**27 J**	**38 J**	**13 J**	**14**
Chromium III (trivalent)	mg/kg	**8.6**	-	-	-	-	-	**13**
Chromium VI (hexavalent)	mg/kg	1.5 U	-	-	-	-	-	**0.31 J**
Cobalt	mg/kg	**4.6**	**7.9 B**	**4.2 J**	**12 J**	**19 J**	**8.0 J**	**5.2**
Copper	mg/kg	**9.4**	**18.3**	**24 J**	**1600 J**	**440 J**	**89 J**	**40 J**
Iron	mg/kg	**12000**	**19200**	**11000 J**	**10000 J**	**34000 J**	**8300 J**	**14000**
Lead	mg/kg	**6.4**	**16.8**	**58 J**	**190 J**	**760 J**	**100 J**	**51**
Lead - coarse fraction	mg/kg	-	-	**65**	-	**690**	-	-
Lead - fine fraction	mg/kg	-	-	**110**	-	**920**	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	**73**	-	**740**	-	-
Magnesium	mg/kg	**18000**	**13200**	**30000**	**2500**	**16000**	**10000**	**23000**
Manganese	mg/kg	**470**	**621**	**350 J**	**140 J**	**720 J**	**300 J**	**430**
Mercury	mg/kg	0.025 U	0.12 U	**0.068 J**	**0.18**	**0.39**	**0.14 J**	**0.060 J**
Nickel	mg/kg	**11**	**15.1**	**11 J**	**30 J**	**47 J**	**20 J**	**15**
Potassium	mg/kg	**530**	**1010 B**	**660 J**	**760 J**	**820 J**	**620 J**	**820 J**
Selenium	mg/kg	**0.71 J**	0.93 U	0.66 UJ	**2.8 J**	**2.1 J**	**1.8 J**	**0.48 J**
Silver	mg/kg	**0.027 J**	0.23 U	0.068 UJ	**0.44 J**	**1.0 J**	**0.28 J**	**0.25**
Sodium	mg/kg	**77 J**	**364 B**	120 U	210 U	**250**	130 U	**98 J**
Thallium	mg/kg	**0.13 J**	**2.4**	**0.16 J**	**0.51 J**	**0.26 J**	**0.41 J**	**0.20**
Vanadium	mg/kg	**15**	**24.0**	**15 J**	**35 J**	**19 J**	**20 J**	**16**
Zinc	mg/kg	**32**	**60.9**	**90 J**	**920 J**	**1400 J**	**290 J**	**110 J**
TCLP Metals								
Barium	mg/L	-	-	-	-	-	-	-
Cadmium	mg/L	-	-	-	-	-	-	-
Selenium	mg/L	-	-	-	-	-	-	-
PCBs								
Aroclor-1248 (PCB-1248)	ug/kg	29 U	38 U	19 U	23 U	21 U	22 U	29 U
Aroclor-1254 (PCB-1254)	ug/kg	28 U	38 U	15 U	**120**	**68**	**35 J**	**57 J**
Aroclor-1260 (PCB-1260)	ug/kg	27 U	38 U	20 U	24 U	22 U	23 U	27 U

Table 14

Summary of Detections
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH163-18**	**S05(OEPA)**	**SS-1**	**SS-2**	**SS-3**	**SS-3**	**SS-4**
Sample ID:		**S-38443-050818-JC-070**	**96-DV-03-S05**	**S-38443-110917-BW-039**	**S-38443-110917-BW-037**	**S-38443-110917-BW-034**	**S-38443-110917-BW-035**	**SS-38443-122018-JC-004**
Sample Date:		**5/8/2018**	**7/9/1996**	**11/9/2017**	**11/9/2017**	**11/9/2017**	**11/9/2017**	**12/20/2018**
Sample Depth:		**17-19 ft BGS**	**5 ft BGS**	**0-2 ft BGS**	**0.2-2.2 ft BGS**	**0.3-2.3 ft BGS**	**0.3-2.3 ft BGS**	**0-2 ft BGS**
							Duplicate	
Parameters	**Units**							
Pesticides								
4,4'-DDD	ug/kg	89 U	3.8 U	3.7 U	4.5 U	41 U	4.2 U	1.8 U
4,4'-DDE	ug/kg	91 U	**0.44 PJ**	1.4 U	1.6 U	15 U	1.5 U	1.9 U
4,4'-DDT	ug/kg	68 U	**0.71 PJ**	1.6 U	1.9 U	17 U	1.8 U	**3.7 J**
alpha-Chlordane	ug/kg	91 U	2 U	4.3 U	5.1 U	47 U	4.8 U	1.9 U
Dieldrin	ug/kg	66 U	3.8 U	1.0 U	1.2 U	11 U	1.1 U	1.4 U
Endrin	ug/kg	110 U	3.8 U	1.6 U	**2.6 NJ**	17 U	1.8 U	2.4 U
Endrin aldehyde	ug/kg	79 U	**4 P**	2.0 U	**3.0 J**	22 U	2.3 U	1.6 U
Endrin ketone	ug/kg	54 U	3.8 U	1.2 U	1.5 U	14 U	1.4 U	1.1 U
gamma-BHC (lindane)	ug/kg	110 U	2 U	3.3 U	3.9 U	36 U	3.7 U	2.2 U
gamma-Chlordane	ug/kg	74 U	2 U	1.7 U	2.0 U	19 U	1.9 U	1.5 U
Heptachlor epoxide	ug/kg	87 U	2 U	2.7 U	3.2 U	30 U	3.1 U	1.8 U
Methoxychlor	ug/kg	400 U	**0.94 PJ**	**2.8 NJ**	**1.6 NJ**	**19 NJ**	**1.8 J**	8.2 U
Herbicides								
2,4,5-TP (Silvex)	ug/kg	-	-	-	-	-	-	-
Dioxin/Furans								
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Asbestos								
Chrysotile asbestos	%	-	-	-	-	-	-	-

Table 14

Summary of Detections
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH163-18**	**S05(OEPA)**	**SS-1**	**SS-2**	**SS-3**	**SS-3**	**SS-4**
Sample ID:		**S-38443-050818-JC-070**	**96-DV-03-S05**	**S-38443-110917-BW-039**	**S-38443-110917-BW-037**	**S-38443-110917-BW-034**	**S-38443-110917-BW-035**	**SS-38443-122018-JC-004**
Sample Date:		**5/8/2018**	**7/9/1996**	**11/9/2017**	**11/9/2017**	**11/9/2017**	**11/9/2017**	**12/20/2018**
Sample Depth:		**17-19 ft BGS**	**5 ft BGS**	**0-2 ft BGS**	**0.2-2.2 ft BGS**	**0.3-2.3 ft BGS**	**0.3-2.3 ft BGS**	**0-2 ft BGS**
							Duplicate	
Parameters	**Units**							
General Chemistry								
Cyanide (total)	mg/kg	**0.24 J**	0.17 U	0.50 U	0.63 U	**13 J**	0.57 UJ	R
Ignitability	deg F	-	-	-	-	-	-	-
pH corrosivity	s.u.	-	-	-	-	-	-	-
Sulfide	mg/kg	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-

Notes
< - Less than reported value.
> - Greater than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 14

Summary of Detections
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-5**	**SS-5**	**SS-6**	**SS-7**	**SS-8**	**SS-9**	**SS-10**
Sample ID:		**SS-38443-122018-JC-005**	**SS-38443-122018-JC-226**	**SS-38443-122018-JC-006**	**SS-38443-122018-JC-007**	**SS-38443-122018-JC-008**	**SS-38443-122018-JC-009**	**SS-38443-122018-JC-010**
Sample Date:		**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**
Sample Depth:		**0.33-2.33 ft BGS**	**0.33-2.33 ft BGS**	**0.33-2.33 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
			Duplicate					
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/kg	0.85 U	0.91 U	1.1 U	1.0 U	1.0 U	0.83 U	0.72 U
1,4-Dichlorobenzene	ug/kg	0.91 U	0.98 U	1.2 U	1.1 U	1.1 UJ	0.89 U	0.77 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	3.7 U	3.9 U	4.9 U	4.4 U	4.5 U	3.6 U	3.1 U
Acetone	ug/kg	22 U	23 U	29 U	26 U	26 U	21 U	18 U
Benzene	ug/kg	0.72 U	0.77 U	0.96 U	0.86 U	0.88 U	0.71 U	0.61 U
Carbon disulfide	ug/kg	1.2 U	1.3 U	1.6 U	1.4 U	1.5 U	1.2 U	1.0 U
Chloroform (Trichloromethane)	ug/kg	0.82 U	0.87 U	1.1 U	0.97 U	0.99 U	0.80 U	0.69 U
cis-1,2-Dichloroethene	ug/kg	0.68 U	0.72 U	0.89 U	0.80 U	0.82 U	0.66 U	0.57 U
Cyclohexane	ug/kg	1.4 U	1.5 U	1.9 U	1.7 U	1.7 U	1.4 U	1.2 U
Ethylbenzene	ug/kg	1.1 U	1.2 U	1.4 U	1.3 U	1.3 U	1.1 U	0.92 U
Isopropyl benzene	ug/kg	0.86 U	0.92 U	1.1 U	1.0 U	1.0 U	0.84 U	0.73 U
Methyl acetate	ug/kg	3.5 U	3.8 U	4.7 U	4.2 U	4.3 U	3.4 U	3.0 U
Methyl cyclohexane	ug/kg	1.3 U	1.4 U	1.7 U	1.5 U	1.5 U	1.2 U	1.1 U
Methylene chloride	ug/kg	12 U	13 U	16 U	15 U	15 U	12 U	11 U
Tetrachloroethene	ug/kg	0.76 U	0.81 U	**2.4 J**	0.90 U	0.92 U	0.74 U	0.64 U
Toluene	ug/kg	0.80 U	0.86 U	1.1 U	0.95 U	0.97 U	0.78 U	0.68 U
Trichloroethene	ug/kg	**0.89 J**	**1.4 J**	0.87 U	0.78 U	0.80 U	0.64 U	0.55 U
Xylenes (total)	ug/kg	1.6 U	1.8 U	2.2 U	2.0 U	2.0 U	1.6 U	1.4 U
Semi-Volatiles								
2-Methylnaphthalene	ug/kg	**33 J**	**29**	**18 J**	**43 J**	**72**	**120**	**6.8 J**
Acenaphthene	ug/kg	**61**	**33**	11 UJ	**33 J**	**31**	**10 J**	3.4 U
Acenaphthylene	ug/kg	**27 J**	**13 J**	**29 J**	**46 J**	**36**	**9.1 J**	4.8 U
Acetophenone	ug/kg	26 U	**16 J**	41 UJ	**22 J**	22 U	13 U	13 U
Anthracene	ug/kg	**310 J**	**110 J**	**44 J**	**210 J**	**96**	**25**	**5.5 J**
Benzaldehyde	ug/kg	55 U	25 U	86 UJ	**30 J**	46 U	**27 J**	27 U
Benzo(a)anthracene	ug/kg	**1500 J**	**440 J**	**230 J**	**950 J**	**540**	**99**	**24**
Benzo(a)pyrene	ug/kg	**1300**	**450**	**310 J**	**1000 J**	**600**	**96**	**24**
Benzo(b)fluoranthene	ug/kg	**1900**	**780**	**440 J**	**1600 J**	**960**	**170**	**37**
Benzo(g,h,i)perylene	ug/kg	**610 J**	**160 J**	**250 J**	**460 J**	**490**	**95**	**19**
Benzo(k)fluoranthene	ug/kg	**820 J**	**220 J**	**150 J**	**600 J**	**380**	**59**	**9.3 J**
Biphenyl (1,1-Biphenyl)	ug/kg	41 U	19 U	64 UJ	20 U	34 U	20 U	20 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	**130 J**	**130**	190 UJ	**160 J**	**150**	61 U	61 U
Butyl benzylphthalate (BBP)	ug/kg	53 U	24 U	83 UJ	**580**	**75 J**	26 U	26 U
Carbazole	ug/kg	**110 J**	**51 J**	71 UJ	**70**	**67 J**	23 U	23 U
Chrysene	ug/kg	**1400 J**	**460 J**	**300 J**	**1000 J**	**650**	**140**	**25**
Dibenz(a,h)anthracene	ug/kg	**200 J**	**48 J**	**60 J**	**130 J**	**140**	**27**	8.3 U
Dibenzofuran	ug/kg	**43 J**	**25 J**	49 UJ	**41 J**	**41 J**	**37 J**	16 U
Diethyl phthalate	ug/kg	74 U	34 U	120 UJ	37 U	63 U	37 U	37 U
Di-n-butylphthalate (DBP)	ug/kg	53 U	**45 J**	83 UJ	**110 J**	44 U	26 U	26 U
Fluoranthene	ug/kg	**3200 J**	**1000 J**	**450 J**	**2100**	**1100**	**200**	**39**
Fluorene	ug/kg	**61**	**29**	10 UJ	**44 J**	**35**	**9.0 J**	3.3 U
Indeno(1,2,3-cd)pyrene	ug/kg	**580 J**	**160 J**	**220 J**	**450 J**	**450**	**65**	**15 J**
Naphthalene	ug/kg	**32 J**	**41**	9.1 UJ	**53 J**	**70**	**74**	2.9 U

Table 14

Summary of Detections
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-5**	**SS-5**	**SS-6**	**SS-7**	**SS-8**	**SS-9**	**SS-10**
Sample ID:		**SS-38443-122018-JC-005**	**SS-38443-122018-JC-226**	**SS-38443-122018-JC-006**	**SS-38443-122018-JC-007**	**SS-38443-122018-JC-008**	**SS-38443-122018-JC-009**	**SS-38443-122018-JC-010**
Sample Date:		**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**
Sample Depth:		**0.33-2.33 ft BGS**	**0.33-2.33 ft BGS**	**0.33-2.33 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
			Duplicate					
Parameters	**Units**							
Pentachlorophenol	ug/kg	140 U	64 U	220 UJ	68 U	120 U	69 U	69 U
Phenanthrene	ug/kg	**1100**	**390**	**200 J**	**630 J**	**500**	**170**	**21**
Phenol	ug/kg	19 U	**19 J**	30 UJ	9.4 U	16 U	9.5 U	9.5 U
Pyrene	ug/kg	**1900**	**710**	**280 J**	**1400 J**	**840**	**150**	**32**
Metals								
Aluminum	mg/kg	**5600**	**6900**	**14000**	**4600**	**11000**	**10000**	**12000**
Antimony	mg/kg	**2.5 J**	**12 J**	**260**	**80**	**3.2**	**15**	**8.3**
Arsenic	mg/kg	**14**	**19**	**29**	**8.7**	**16**	**16**	**13**
Barium	mg/kg	**270**	**740**	**1300**	**470**	**330**	**400**	**1800**
Beryllium	mg/kg	**0.60**	**0.70**	**1.4**	**0.44**	**0.87**	**0.56**	**0.60**
Cadmium	mg/kg	**6.4**	**14**	**20**	**6.6**	**3.0**	**0.81**	**0.24**
Calcium	mg/kg	**77000**	**78000**	**25000**	**82000**	**62000**	**34000**	**12000**
Chromium	mg/kg	**29**	**46**	**99**	**50**	**46**	**19**	**18**
Chromium III (trivalent)	mg/kg	**28**	**46**	**99**	**50**	**46**	**19**	**18**
Chromium VI (hexavalent)	mg/kg	**0.72 J**	1.3 U	1.8 U	2.8 U	3.3 U	1.4 U	1.4 U
Cobalt	mg/kg	**9.0 J**	**67 J**	**23**	**6.9**	**9.9**	**6.7**	**7.9**
Copper	mg/kg	**600 J**	**770 J**	**6000 J**	**930 J**	**310 J**	**53 J**	**19 J**
Iron	mg/kg	**32000**	**40000**	**30000**	**19000**	**21000**	**18000**	**20000**
Lead	mg/kg	**280**	**330**	**2400**	**930**	**450**	**60**	**20**
Lead - coarse fraction	mg/kg	-	-	**4500 J**	-	**320 J**	-	**20 J**
Lead - fine fraction	mg/kg	-	-	**2500**	-	**300**	-	**47**
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	**4100**	-	**320**	-	**22**
Magnesium	mg/kg	**31000**	**34000**	**19000**	**43000**	**24000**	**17000**	**7100**
Manganese	mg/kg	**410**	**590**	**760**	**330**	**540**	**530**	**760**
Mercury	mg/kg	**0.079 J**	**0.065 J**	**0.24**	**0.068 J**	**0.23**	**0.081 J**	**0.052 J**
Nickel	mg/kg	**43 J**	**150 J**	**330**	**60**	**43**	**19**	**19**
Potassium	mg/kg	**800 J**	**1200 J**	**1500 J**	**680 J**	**1500 J**	**1300 J**	**1200 J**
Selenium	mg/kg	**0.77 J**	**1.3**	**2.7**	**0.98**	**1.4**	**0.59 J**	**0.32 J**
Silver	mg/kg	**0.33**	**0.41**	**4.9**	**0.76**	**1.5**	**0.29**	**0.062 J**
Sodium	mg/kg	**140 J**	**2000 J**	**410**	**240**	**130 J**	**87 J**	**65 J**
Thallium	mg/kg	**0.20 J**	**0.091 J**	**0.41**	**0.17**	**0.22**	**0.12**	**0.085 J**
Vanadium	mg/kg	**18**	**21**	**42**	**16**	**28**	**27**	**29**
Zinc	mg/kg	**370 J**	**560 J**	**4500 J**	**780 J**	**280 J**	**110 J**	**59 J**
TCLP Metals								
Barium	mg/L	-	-	-	-	-	-	-
Cadmium	mg/L	-	-	-	-	-	-	-
Selenium	mg/L	-	-	-	-	-	-	-
PCBs								
Aroclor-1248 (PCB-1248)	ug/kg	28 U	26 U	71 U	28 U	63 U	27 U	28 U
Aroclor-1254 (PCB-1254)	ug/kg	**630**	**710**	**1200**	**170**	**1700**	**53 J**	27 U
Aroclor-1260 (PCB-1260)	ug/kg	26 U	24 U	65 U	25 U	58 U	25 U	25 U

Table 14

Summary of Detections
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-5**	**SS-5**	**SS-6**	**SS-7**	**SS-8**	**SS-9**	**SS-10**
Sample ID:		**SS-38443-122018-JC-005**	**SS-38443-122018-JC-226**	**SS-38443-122018-JC-006**	**SS-38443-122018-JC-007**	**SS-38443-122018-JC-008**	**SS-38443-122018-JC-009**	**SS-38443-122018-JC-010**
Sample Date:		**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**
Sample Depth:		**0.33-2.33 ft BGS**	**0.33-2.33 ft BGS**	**0.33-2.33 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
			Duplicate					
Parameters	**Units**							
Pesticides								
4,4'-DDD	ug/kg	1.8 U	1.6 U	2.2 U	1.7 U	10 U	1.7 U	1.7 U
4,4'-DDE	ug/kg	1.8 U	1.7 U	2.3 U	**4.8 J**	11 U	**2.0 J**	1.7 U
4,4'-DDT	ug/kg	1.3 U	1.2 U	1.7 U	**9.3 NJ**	7.9 U	1.3 U	1.3 U
alpha-Chlordane	ug/kg	**13**	**12**	2.3 U	1.7 U	10 U	1.7 U	1.7 U
Dieldrin	ug/kg	**12 J**	**12 J**	**11 NJ**	**7.2 J**	7.7 U	1.3 U	1.3 U
Endrin	ug/kg	2.3 U	2.1 U	2.9 U	2.2 U	13 U	2.2 U	2.2 U
Endrin aldehyde	ug/kg	**1.7 NJ**	1.4 U	2.0 U	1.5 U	9.1 U	1.5 U	1.5 U
Endrin ketone	ug/kg	1.1 U	0.97 U	1.3 U	1.0 U	6.2 U	1.0 U	1.0 U
gamma-BHC (lindane)	ug/kg	2.1 U	2.0 U	2.7 U	2.1 U	12 U	2.0 U	2.1 U
gamma-Chlordane	ug/kg	**12**	**11 J**	1.9 U	**1.4 NJ**	8.6 U	1.4 U	1.4 U
Heptachlor epoxide	ug/kg	1.7 U	1.6 U	**3.5 NJ**	**2.1 J**	10 U	1.6 U	1.7 U
Methoxychlor	ug/kg	7.8 U	7.2 U	9.9 U	7.5 U	46 U	7.5 U	7.6 U
Herbicides								
2,4,5-TP (Silvex)	ug/kg	-	-	-	-	-	-	-
Dioxin/Furans								
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Asbestos								
Chrysotile asbestos	%	-	-	-	-	-	-	-

Table 14

Summary of Detections
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-5**	**SS-5**	**SS-6**	**SS-7**	**SS-8**	**SS-9**	**SS-10**
Sample ID:		**SS-38443-122018-JC-005**	**SS-38443-122018-JC-226**	**SS-38443-122018-JC-006**	**SS-38443-122018-JC-007**	**SS-38443-122018-JC-008**	**SS-38443-122018-JC-009**	**SS-38443-122018-JC-010**
Sample Date:		**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**
Sample Depth:		**0.33-2.33 ft BGS**	**0.33-2.33 ft BGS**	**0.33-2.33 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
			Duplicate					
Parameters	**Units**							
General Chemistry								
Cyanide (total)	mg/kg	**8.7 J**	**4.9 J**	**0.88 J**	**0.49 J**	**0.29 J**	R	R
Ignitability	deg F	-	-	-	-	-	-	-
pH corrosivity	s.u.	-	-	-	-	-	-	-
Sulfide	mg/kg	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-

Notes
< - Less than reported value.
> - Greater than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 14

Summary of Detections
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-11**	**SS-95**	**SS-96**	**SS-97**	**SS-127**	**SS-128**	**SS-129**
Sample ID:		**SS-38443-122018-JC-011**	**SS-38443-122018-JC-095**	**SS-38443-122018-JC-096**	**SS-38443-122018-JC-097**	**SS-38443-122018-JC-127**	**SS-38443-122018-JC-128**	**SS-38443-122018-JC-129**
Sample Date:		**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.33-2.33 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/kg	0.79 U	-	-	-	-	-	-
1,4-Dichlorobenzene	ug/kg	0.85 U	-	-	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	3.4 U	-	-	-	-	-	-
Acetone	ug/kg	20 U	-	-	-	-	-	-
Benzene	ug/kg	0.67 U	-	-	-	-	-	-
Carbon disulfide	ug/kg	1.1 U	-	-	-	-	-	-
Chloroform (Trichloromethane)	ug/kg	0.76 U	-	-	-	-	-	-
cis-1,2-Dichloroethene	ug/kg	0.63 U	-	-	-	-	-	-
Cyclohexane	ug/kg	1.3 U	-	-	-	-	-	-
Ethylbenzene	ug/kg	1.0 U	-	-	-	-	-	-
Isopropyl benzene	ug/kg	0.80 U	-	-	-	-	-	-
Methyl acetate	ug/kg	3.3 U	-	-	-	-	-	-
Methyl cyclohexane	ug/kg	1.2 U	-	-	-	-	-	-
Methylene chloride	ug/kg	12 U	-	-	-	-	-	-
Tetrachloroethene	ug/kg	0.70 U	-	-	-	-	-	-
Toluene	ug/kg	0.74 U	-	-	-	-	-	-
Trichloroethene	ug/kg	0.61 U	-	-	-	-	-	-
Xylenes (total)	ug/kg	1.5 U	-	-	-	-	-	-
Semi-Volatiles								
2-Methylnaphthalene	ug/kg	**13 J**	-	-	-	-	-	-
Acenaphthene	ug/kg	3.2 U	-	-	-	-	-	-
Acenaphthylene	ug/kg	**12 J**	-	-	-	-	-	-
Acetophenone	ug/kg	12 U	-	-	-	-	-	-
Anthracene	ug/kg	**22**	-	-	-	-	-	-
Benzaldehyde	ug/kg	26 U	-	-	-	-	-	-
Benzo(a)anthracene	ug/kg	**93**	-	-	-	-	-	-
Benzo(a)pyrene	ug/kg	**110**	-	-	-	-	-	-
Benzo(b)fluoranthene	ug/kg	**200**	-	-	-	-	-	-
Benzo(g,h,i)perylene	ug/kg	**49**	-	-	-	-	-	-
Benzo(k)fluoranthene	ug/kg	**60**	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	ug/kg	19 U	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	57 U	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	ug/kg	25 U	-	-	-	-	-	-
Carbazole	ug/kg	21 U	-	-	-	-	-	-
Chrysene	ug/kg	**110**	-	-	-	-	-	-
Dibenz(a,h)anthracene	ug/kg	7.8 U	-	-	-	-	-	-
Dibenzofuran	ug/kg	15 U	-	-	-	-	-	-
Diethyl phthalate	ug/kg	35 U	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	ug/kg	25 U	-	-	-	-	-	-
Fluoranthene	ug/kg	**190**	-	-	-	-	-	-
Fluorene	ug/kg	**5.4 J**	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/kg	**47**	-	-	-	-	-	-
Naphthalene	ug/kg	**9.5 J**	-	-	-	-	-	-

Table 14

Summary of Detections
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-11**	**SS-95**	**SS-96**	**SS-97**	**SS-127**	**SS-128**	**SS-129**
Sample ID:		**SS-38443-122018-JC-011**	**SS-38443-122018-JC-095**	**SS-38443-122018-JC-096**	**SS-38443-122018-JC-097**	**SS-38443-122018-JC-127**	**SS-38443-122018-JC-128**	**SS-38443-122018-JC-129**
Sample Date:		**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.33-2.33 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**							
Pentachlorophenol	ug/kg	65 U	-	-	-	-	-	-
Phenanthrene	ug/kg	**84**	-	-	-	-	-	-
Phenol	ug/kg	9.0 U	-	-	-	-	-	-
Pyrene	ug/kg	**140**	-	-	-	-	-	-
Metals								
Aluminum	mg/kg	**5500**	-	-	-	-	-	-
Antimony	mg/kg	**0.85**	-	-	-	-	-	-
Arsenic	mg/kg	**8.2**	-	-	-	-	-	-
Barium	mg/kg	**86**	-	-	-	-	-	-
Beryllium	mg/kg	**0.32**	-	-	-	-	-	-
Cadmium	mg/kg	**0.48**	-	-	-	-	-	-
Calcium	mg/kg	**100000**	-	-	-	-	-	-
Chromium	mg/kg	**12**	-	-	-	-	-	-
Chromium III (trivalent)	mg/kg	**12**	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	1.4 U	-	-	-	-	-	-
Cobalt	mg/kg	**5.3**	-	-	-	-	-	-
Copper	mg/kg	**25 J**	-	-	-	-	-	-
Iron	mg/kg	**14000**	-	-	-	-	-	-
Lead	mg/kg	**68**	-	-	-	-	-	-
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-
Magnesium	mg/kg	**46000**	-	-	-	-	-	-
Manganese	mg/kg	**320**	-	-	-	-	-	-
Mercury	mg/kg	**0.15**	-	-	-	-	-	-
Nickel	mg/kg	**17**	-	-	-	-	-	-
Potassium	mg/kg	**1200 J**	-	-	-	-	-	-
Selenium	mg/kg	**0.29 J**	-	-	-	-	-	-
Silver	mg/kg	**0.098 J**	-	-	-	-	-	-
Sodium	mg/kg	**140 J**	-	-	-	-	-	-
Thallium	mg/kg	**0.29**	-	-	-	-	-	-
Vanadium	mg/kg	**18**	-	-	-	-	-	-
Zinc	mg/kg	**79 J**	-	-	-	-	-	-
TCLP Metals								
Barium	mg/L	-	-	-	-	-	-	-
Cadmium	mg/L	-	-	-	-	-	-	-
Selenium	mg/L	-	-	-	-	-	-	-
PCBs								
Aroclor-1248 (PCB-1248)	ug/kg	26 U	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/kg	**41 J**	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/kg	24 U	-	-	-	-	-	-

Table 14

Summary of Detections
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-11**	**SS-95**	**SS-96**	**SS-97**	**SS-127**	**SS-128**	**SS-129**
Sample ID:		**SS-38443-122018-JC-011**	**SS-38443-122018-JC-095**	**SS-38443-122018-JC-096**	**SS-38443-122018-JC-097**	**SS-38443-122018-JC-127**	**SS-38443-122018-JC-128**	**SS-38443-122018-JC-129**
Sample Date:		**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.33-2.33 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**							
Pesticides								
4,4'-DDD	ug/kg	1.7 U	-	-	-	-	-	-
4,4'-DDE	ug/kg	1.7 U	-	-	-	-	-	-
4,4'-DDT	ug/kg	**3.1 J**	-	-	-	-	-	-
alpha-Chlordane	ug/kg	1.7 U	-	-	-	-	-	-
Dieldrin	ug/kg	1.2 U	-	-	-	-	-	-
Endrin	ug/kg	2.2 U	-	-	-	-	-	-
Endrin aldehyde	ug/kg	1.5 U	-	-	-	-	-	-
Endrin ketone	ug/kg	1.0 U	-	-	-	-	-	-
gamma-BHC (lindane)	ug/kg	2.0 U	-	-	-	-	-	-
gamma-Chlordane	ug/kg	1.4 U	-	-	-	-	-	-
Heptachlor epoxide	ug/kg	1.6 U	-	-	-	-	-	-
Methoxychlor	ug/kg	7.4 U	-	-	-	-	-	-
Herbicides								
2,4,5-TP (Silvex)	ug/kg	-	16 U	16 U	18 U	19 U	16 U	16 U
Dioxin/Furans								
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Asbestos								
Chrysotile asbestos	%	-	-	-	-	-	-	-

Table 14

Summary of Detections
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-11**	**SS-95**	**SS-96**	**SS-97**	**SS-127**	**SS-128**	**SS-129**
Sample ID:		**SS-38443-122018-JC-011**	**SS-38443-122018-JC-095**	**SS-38443-122018-JC-096**	**SS-38443-122018-JC-097**	**SS-38443-122018-JC-127**	**SS-38443-122018-JC-128**	**SS-38443-122018-JC-129**
Sample Date:		**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.33-2.33 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**							
General Chemistry								
Cyanide (total)	mg/kg	R	-	-	-	-	-	-
Ignitability	deg F	-	-	-	-	-	-	-
pH corrosivity	s.u.	-	-	-	-	-	-	-
Sulfide	mg/kg	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-

Notes
< - Less than reported value.
> - Greater than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 14

Summary of Detections
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-174-AS**	**SS-175-AS**	**SS-176-AS**	**SS-177-AS**	**SS-178-AS**	**TP-8**	**TP-8**	**TP-9**
Sample ID:		**SS-38443-122018-JC-174**	**SS-38443-112718-JC-175**	**SS-38443-112718-JC-176**	**SS-38443-122018-JC-177**	**SS-38443-122018-JC-178**	**TP-8**	**S-38443-110917-BW-040**	**TP-9**
Sample Date:		**12/20/2018**	**11/27/2018**	**11/27/2018**	**12/20/2018**	**12/20/2018**	**11/9/2017**	**11/9/2017**	**11/9/2017**
Sample Depth:		**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0.33-0.83 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**4-6 ft BGS**	**14-15 ft BGS**	**0-2 ft BGS**
Parameters	**Units**								
Volatiles									
1,1,1-Trichloroethane	ug/kg	-	-	-	-	-	-	0.29 U	-
1,4-Dichlorobenzene	ug/kg	-	-	-	-	-	-	0.44 U	-
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	-	-	-	-	-	-	1.6 U	-
Acetone	ug/kg	-	-	-	-	-	-	17 U	-
Benzene	ug/kg	-	-	-	-	-	-	0.40 U	-
Carbon disulfide	ug/kg	-	-	-	-	-	-	0.26 U	-
Chloroform (Trichloromethane)	ug/kg	-	-	-	-	-	-	0.29 U	-
cis-1,2-Dichloroethene	ug/kg	-	-	-	-	-	-	0.35 U	-
Cyclohexane	ug/kg	-	-	-	-	-	-	0.26 U	-
Ethylbenzene	ug/kg	-	-	-	-	-	-	0.34 U	-
Isopropyl benzene	ug/kg	-	-	-	-	-	-	0.25 U	-
Methyl acetate	ug/kg	-	-	-	-	-	-	1.5 U	-
Methyl cyclohexane	ug/kg	-	-	-	-	-	-	0.29 U	-
Methylene chloride	ug/kg	-	-	-	-	-	-	1.7 U	-
Tetrachloroethene	ug/kg	-	-	-	-	-	-	0.47 U	-
Toluene	ug/kg	-	-	-	-	-	-	0.43 U	-
Trichloroethene	ug/kg	-	-	-	-	-	-	0.52 U	-
Xylenes (total)	ug/kg	-	-	-	-	-	-	0.50 U	-
Semi-Volatiles									
2-Methylnaphthalene	ug/kg	-	-	-	-	-	-	0.58 U	-
Acenaphthene	ug/kg	-	-	-	-	-	-	0.88 U	-
Acenaphthylene	ug/kg	-	-	-	-	-	-	0.41 U	-
Acetophenone	ug/kg	-	-	-	-	-	-	11 U	-
Anthracene	ug/kg	-	-	-	-	-	-	**4.8 J**	-
Benzaldehyde	ug/kg	-	-	-	-	-	-	14 U	-
Benzo(a)anthracene	ug/kg	-	-	-	-	-	-	**31**	-
Benzo(a)pyrene	ug/kg	-	-	-	-	-	-	**29**	-
Benzo(b)fluoranthene	ug/kg	-	-	-	-	-	-	**37**	-
Benzo(g,h,i)perylene	ug/kg	-	-	-	-	-	-	**17**	-
Benzo(k)fluoranthene	ug/kg	-	-	-	-	-	-	**12**	-
Biphenyl (1,1-Biphenyl)	ug/kg	-	-	-	-	-	-	4.1 U	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	-	-	-	-	-	-	**29 J**	-
Butyl benzylphthalate (BBP)	ug/kg	-	-	-	-	-	-	12 U	-
Carbazole	ug/kg	-	-	-	-	-	-	31 U	-
Chrysene	ug/kg	-	-	-	-	-	-	**29**	-
Dibenz(a,h)anthracene	ug/kg	-	-	-	-	-	-	0.77 U	-
Dibenzofuran	ug/kg	-	-	-	-	-	-	0.77 U	-
Diethyl phthalate	ug/kg	-	-	-	-	-	-	19 U	-
Di-n-butylphthalate (DBP)	ug/kg	-	-	-	-	-	-	17 U	-
Fluoranthene	ug/kg	-	-	-	-	-	-	**45**	-
Fluorene	ug/kg	-	-	-	-	-	-	0.62 U	-
Indeno(1,2,3-cd)pyrene	ug/kg	-	-	-	-	-	-	**18**	-
Naphthalene	ug/kg	-	-	-	-	-	-	0.95 U	-

Table 14

Summary of Detections
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-174-AS**	**SS-175-AS**	**SS-176-AS**	**SS-177-AS**	**SS-178-AS**	**TP-8**	**TP-8**	**TP-9**
Sample ID:		**SS-38443-122018-JC-174**	**SS-38443-112718-JC-175**	**SS-38443-112718-JC-176**	**SS-38443-122018-JC-177**	**SS-38443-122018-JC-178**	**TP-8**	**S-38443-110917-BW-040**	**TP-9**
Sample Date:		**12/20/2018**	**11/27/2018**	**11/27/2018**	**12/20/2018**	**12/20/2018**	**11/9/2017**	**11/9/2017**	**11/9/2017**
Sample Depth:		**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0.33-0.83 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**4-6 ft BGS**	**14-15 ft BGS**	**0-2 ft BGS**
Parameters	**Units**								
Pentachlorophenol	ug/kg	-	-	-	-	-	-	11 U	-
Phenanthrene	ug/kg	-	-	-	-	-	-	**15**	-
Phenol	ug/kg	-	-	-	-	-	-	8.5 U	-
Pyrene	ug/kg	-	-	-	-	-	-	**43**	-
Metals									
Aluminum	mg/kg	-	-	-	-	-	-	**5200 J**	-
Antimony	mg/kg	-	-	-	-	-	-	0.31 UJ	-
Arsenic	mg/kg	-	-	-	-	-	-	**5.9 J**	-
Barium	mg/kg	-	-	-	-	-	-	**67 J**	-
Beryllium	mg/kg	-	-	-	-	-	-	**0.37**	-
Cadmium	mg/kg	-	-	-	-	-	-	**0.22 J**	-
Calcium	mg/kg	-	-	-	-	-	-	**73000 J**	-
Chromium	mg/kg	-	-	-	-	-	-	**8.3 J**	-
Chromium III (trivalent)	mg/kg	-	-	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-	-	-
Cobalt	mg/kg	-	-	-	-	-	-	**4.1 J**	-
Copper	mg/kg	-	-	-	-	-	-	**8.1 J**	-
Iron	mg/kg	-	-	-	-	-	-	**12000 J**	-
Lead	mg/kg	-	-	-	-	-	-	**7.8 J**	-
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-	-
Magnesium	mg/kg	-	-	-	-	-	-	**28000**	-
Manganese	mg/kg	-	-	-	-	-	-	**420 J**	-
Mercury	mg/kg	-	-	-	-	-	-	0.020 U	-
Nickel	mg/kg	-	-	-	-	-	-	**9.6 J**	-
Potassium	mg/kg	-	-	-	-	-	-	**600 J**	-
Selenium	mg/kg	-	-	-	-	-	-	0.55 UJ	-
Silver	mg/kg	-	-	-	-	-	-	0.026 UJ	-
Sodium	mg/kg	-	-	-	-	-	-	100 U	-
Thallium	mg/kg	-	-	-	-	-	-	**0.14 J**	-
Vanadium	mg/kg	-	-	-	-	-	-	**15 J**	-
Zinc	mg/kg	-	-	-	-	-	-	**35 J**	-
TCLP Metals									
Barium	mg/L	-	-	-	-	-	-	-	-
Cadmium	mg/L	-	-	-	-	-	-	-	-
Selenium	mg/L	-	-	-	-	-	-	-	-
PCBs									
Aroclor-1248 (PCB-1248)	ug/kg	-	-	-	-	-	-	19 U	-
Aroclor-1254 (PCB-1254)	ug/kg	-	-	-	-	-	-	16 U	-
Aroclor-1260 (PCB-1260)	ug/kg	-	-	-	-	-	-	20 U	-

Table 14

Summary of Detections
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-174-AS**	**SS-175-AS**	**SS-176-AS**	**SS-177-AS**	**SS-178-AS**	**TP-8**	**TP-8**	**TP-9**
Sample ID:		**SS-38443-122018-JC-174**	**SS-38443-112718-JC-175**	**SS-38443-112718-JC-176**	**SS-38443-122018-JC-177**	**SS-38443-122018-JC-178**	**TP-8**	**S-38443-110917-BW-040**	**TP-9**
Sample Date:		**12/20/2018**	**11/27/2018**	**11/27/2018**	**12/20/2018**	**12/20/2018**	**11/9/2017**	**11/9/2017**	**11/9/2017**
Sample Depth:		**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0.33-0.83 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**4-6 ft BGS**	**14-15 ft BGS**	**0-2 ft BGS**
Parameters	**Units**								
Pesticides									
4,4'-DDD	ug/kg	-	-	-	-	-	-	3.9 U	-
4,4'-DDE	ug/kg	-	-	-	-	-	-	1.4 U	-
4,4'-DDT	ug/kg	-	-	-	-	-	-	1.6 U	-
alpha-Chlordane	ug/kg	-	-	-	-	-	-	4.4 U	-
Dieldrin	ug/kg	-	-	-	-	-	-	1.1 U	-
Endrin	ug/kg	-	-	-	-	-	-	1.6 U	-
Endrin aldehyde	ug/kg	-	-	-	-	-	-	2.1 U	-
Endrin ketone	ug/kg	-	-	-	-	-	-	1.3 U	-
gamma-BHC (lindane)	ug/kg	-	-	-	-	-	-	3.4 U	-
gamma-Chlordane	ug/kg	-	-	-	-	-	-	1.8 U	-
Heptachlor epoxide	ug/kg	-	-	-	-	-	-	2.8 U	-
Methoxychlor	ug/kg	-	-	-	-	-	-	**2.0 J**	-
Herbicides									
2,4,5-TP (Silvex)	ug/kg	-	-	-	-	-	-	-	-
Dioxin/Furans									
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	0.77 U	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	**23**	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	0.86 U	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	1.8 U	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	**0.083 J**	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	**0.27 J**	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	**0.11 J**	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	**0.46 J**	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	**0.20 J**	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	**0.35 J**	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	0.032 U	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	0.037 U	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	**0.19 J**	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	**0.15 J**	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	**0.24 J**	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	**0.078 J**	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	**1.7 J**	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	**3.8 J**	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	**8.2 J**	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	**3.2 J**	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	**17 J**	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	**1.9 J**	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	**19 J**	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	**0.63 J**	-
Asbestos									
Chrysotile asbestos	%	-	-	0.25 <	-	-	-	-	-

Table 14

Summary of Detections
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-174-AS**	**SS-175-AS**	**SS-176-AS**	**SS-177-AS**	**SS-178-AS**	**TP-8**	**TP-8**	**TP-9**
Sample ID:		**SS-38443-122018-JC-174**	**SS-38443-112718-JC-175**	**SS-38443-112718-JC-176**	**SS-38443-122018-JC-177**	**SS-38443-122018-JC-178**	**TP-8**	**S-38443-110917-BW-040**	**TP-9**
Sample Date:		**12/20/2018**	**11/27/2018**	**11/27/2018**	**12/20/2018**	**12/20/2018**	**11/9/2017**	**11/9/2017**	**11/9/2017**
Sample Depth:		**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0.33-0.83 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**4-6 ft BGS**	**14-15 ft BGS**	**0-2 ft BGS**
Parameters	**Units**								
General Chemistry									
Cyanide (total)	mg/kg	-	-	-	-	-	-	0.50 U	-
Ignitability	deg F	-	-	-	-	-	-	-	-
pH corrosivity	s.u.	-	-	-	-	-	-	-	-
Sulfide	mg/kg	-	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-	-

Notes
< - Less than reported value.
> - Greater than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 14

Summary of Detections
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TP-9**	**TP-10**	**TP-10**	**TT-1**	**TT-1**	**TT-2**	**TT-2**
Sample ID:		**S-38443-110917-BW-038**	**S-38443-110917-BW-036**	**TP-10**	**S-38443-092608-KMV-018**	**S-38443-092608-KMV-019**	**S-38443-092608-KMV-020**	**S-38443-092608-KMV-021**
Sample Date:		**11/9/2017**	**11/9/2017**	**11/9/2017**	**9/26/2008**	**9/26/2008**	**9/26/2008**	**9/26/2008**
Sample Depth:		**2-4 ft BGS**	**4-6 ft BGS**	**8-10 ft BGS**	**8 ft BGS**	**15 ft BGS**	**9 ft BGS**	**13.5 ft BGS**
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/kg	0.34 U	0.52 U	-	4.5 U	4.6 U	5.7 U	4.0 U
1,4-Dichlorobenzene	ug/kg	0.52 U	R	-	4.5 U	4.6 U	5.7 U	4.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	1.9 U	2.9 U	-	18 U	19 U	23 U	16 U
Acetone	ug/kg	17 U	20 U	-	18 U	19 U	23 U	16 U
Benzene	ug/kg	0.48 U	0.73 U	-	4.5 U	4.6 U	5.7 U	4.0 U
Carbon disulfide	ug/kg	0.31 U	0.48 U	-	4.5 U	4.6 U	5.7 U	4.0 U
Chloroform (Trichloromethane)	ug/kg	0.34 U	0.52 U	-	4.5 U	4.6 U	5.7 U	4.0 U
cis-1,2-Dichloroethene	ug/kg	0.42 U	0.64 U	-	4.5 U	4.6 U	5.7 U	4.0 U
Cyclohexane	ug/kg	0.31 U	0.48 U	-	9.1 U	9.3 U	11 U	7.9 U
Ethylbenzene	ug/kg	0.40 U	R	-	4.5 U	4.6 U	5.7 U	4.0 U
Isopropyl benzene	ug/kg	0.30 U	R	-	4.5 U	4.6 U	5.7 U	4.0 U
Methyl acetate	ug/kg	1.7 U	2.7 U	-	9.1 U	9.3 U	11 U	7.9 U
Methyl cyclohexane	ug/kg	0.34 U	0.52 U	-	9.1 U	9.3 U	11 U	**0.61 J**
Methylene chloride	ug/kg	1.9 U	4.1 U	-	4.5 U	4.6 U	5.7 U	4.0 U
Tetrachloroethene	ug/kg	0.55 U	**4.5 J**	-	4.5 U	4.6 U	5.7 U	4.0 U
Toluene	ug/kg	0.51 U	R	-	4.5 U	4.6 U	5.7 U	**0.23 J**
Trichloroethene	ug/kg	0.61 U	**22 J**	-	4.5 U	4.6 U	5.7 U	4.0 U
Xylenes (total)	ug/kg	0.60 U	R	-	9.1 U	**1.2 J**	11 U	**0.98 J**
Semi-Volatiles								
2-Methylnaphthalene	ug/kg	**84**	**23**	-	7.2 U	6.9 U	7.5 U	7.2 U
Acenaphthene	ug/kg	**320**	**14**	-	7.2 U	6.9 U	7.5 U	7.2 U
Acenaphthylene	ug/kg	2.0 U	**7.0 J**	-	7.2 U	6.9 U	7.5 U	7.2 U
Acetophenone	ug/kg	54 U	**16 J**	-	110 U	100 U	110 U	110 U
Anthracene	ug/kg	**870**	**73**	-	7.2 U	6.9 U	7.5 U	7.2 U
Benzaldehyde	ug/kg	70 U	17 U	-	110 U	100 U	110 U	110 U
Benzo(a)anthracene	ug/kg	**2000**	**370**	-	**15**	6.9 U	**18**	**22**
Benzo(a)pyrene	ug/kg	**1000**	**310**	-	**15**	6.9 U	**16**	**22**
Benzo(b)fluoranthene	ug/kg	**2100**	**560**	-	**21**	**7.1**	**20**	**28**
Benzo(g,h,i)perylene	ug/kg	**960**	**240**	-	**15**	6.9 U	**13**	**16**
Benzo(k)fluoranthene	ug/kg	**1000**	**260**	-	7.2 U	6.9 U	7.5 U	**15**
Biphenyl (1,1-Biphenyl)	ug/kg	**27 J**	**13 J**	-	54 U	52 U	56 U	54 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	110 U	**94 J**	-	54 U	52 U	**25 J**	54 U
Butyl benzylphthalate (BBP)	ug/kg	58 U	14 U	-	54 U	52 U	56 U	54 U
Carbazole	ug/kg	**420**	**47 J**	-	54 U	52 U	56 U	54 U
Chrysene	ug/kg	**2000**	**430**	-	**19**	6.9 U	**19**	**27**
Dibenz(a,h)anthracene	ug/kg	3.9 U	**68**	-	7.2 U	6.9 U	7.5 U	7.2 U
Dibenzofuran	ug/kg	**240 J**	**40 J**	-	54 U	52 U	56 U	54 U
Diethyl phthalate	ug/kg	**150 J**	23 U	-	54 U	52 U	56 U	54 U
Di-n-butylphthalate (DBP)	ug/kg	88 U	21 U	-	54 U	52 U	56 U	54 U
Fluoranthene	ug/kg	**5100**	**720**	-	**24**	**8.9**	**28**	**43**
Fluorene	ug/kg	**320**	**16**	-	7.2 U	6.9 U	7.5 U	7.2 U
Indeno(1,2,3-cd)pyrene	ug/kg	**810**	**220**	-	7.2 U	6.9 U	7.5 U	**14**
Naphthalene	ug/kg	**180**	**29**	-	7.2 U	6.9 U	7.5 U	7.2 U

Table 14

Summary of Detections
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TP-9**	**TP-10**	**TP-10**	**TT-1**	**TT-1**	**TT-2**	**TT-2**
Sample ID:		**S-38443-110917-BW-038**	**S-38443-110917-BW-036**	**TP-10**	**S-38443-092608-KMV-018**	**S-38443-092608-KMV-019**	**S-38443-092608-KMV-020**	**S-38443-092608-KMV-021**
Sample Date:		**11/9/2017**	**11/9/2017**	**11/9/2017**	**9/26/2008**	**9/26/2008**	**9/26/2008**	**9/26/2008**
Sample Depth:		**2-4 ft BGS**	**4-6 ft BGS**	**8-10 ft BGS**	**8 ft BGS**	**15 ft BGS**	**9 ft BGS**	**13.5 ft BGS**
Parameters	**Units**							
Pentachlorophenol	ug/kg	53 U	13 U	-	160 U	160 U	170 U	160 U
Phenanthrene	ug/kg	**3600**	**450**	-	**10**	6.9 U	**7.9**	**20**
Phenol	ug/kg	43 U	10 U	-	54 U	52 U	56 U	54 U
Pyrene	ug/kg	**4100**	**550**	-	**23**	**7.9**	**30**	**39**
Metals								
Aluminum	mg/kg	**4700 J**	**7000 J**	-	**9680**	**2920**	**8230**	**6660**
Antimony	mg/kg	**7.1 J**	**9.2 J**	-	**1.0 J**	**12.8 J**	**0.51 J**	**1.6 J**
Arsenic	mg/kg	**9.5 J**	**19 J**	-	**8.4 J**	**14.1 J**	**5.1 J**	**7.3 J**
Barium	mg/kg	**150 J**	**1600 J**	-	**148**	**342**	**61.5**	**84.2**
Beryllium	mg/kg	**0.82**	**3.1**	-	**0.40 J**	0.52 U	**0.30 J**	**0.24 J**
Cadmium	mg/kg	**1.7 J**	**8.8 J**	-	**0.26 J**	**0.14 J**	**0.27 J**	**0.31 J**
Calcium	mg/kg	**64000 J**	**43000 J**	-	**35600**	**110000**	**22700**	**51600**
Chromium	mg/kg	**10 J**	**62 J**	-	**12.8 J**	**5.6 J**	**13.4 J**	**11.2 J**
Chromium III (trivalent)	mg/kg	-	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-	-
Cobalt	mg/kg	**4.9 J**	**38 J**	-	**5.2 J**	**2.1 J**	**6.9 J**	**4.6 J**
Copper	mg/kg	**7100**	**870 J**	-	**14.2**	**19.1**	**13.8**	**15.4**
Iron	mg/kg	**9900 J**	**24000 J**	-	**15600**	**6340**	**15300**	**14300**
Lead	mg/kg	**130 J**	**1100**	-	**12.9**	**5.4 J**	**15.3**	**11.4**
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-
Magnesium	mg/kg	**21000**	**13000**	-	**14200**	**38300**	**14700**	**22900**
Manganese	mg/kg	**330 J**	**550 J**	-	**489**	**241**	**437**	**416**
Mercury	mg/kg	**0.053 J**	**0.44**	-	**0.021 J**	**0.33**	**0.043 J**	**0.016 J**
Nickel	mg/kg	**29 J**	**94 J**	-	**12.9**	**6.4**	**16.3**	**11.8**
Potassium	mg/kg	**490 J**	**1100 J**	-	**876**	**641**	**733**	**874**
Selenium	mg/kg	0.94 UJ	**2.8 J**	-	26.9 U	26.0 U	28.1 U	26.8 U
Silver	mg/kg	**1.1 J**	**2.2 J**	-	1.1 U	1.0 U	1.1 U	1.1 U
Sodium	mg/kg	120 U	**440**	-	539 U	520 U	562 U	536 U
Thallium	mg/kg	**0.19 J**	**0.35 J**	-	**0.13**	0.10 U	0.11 U	**0.12**
Vanadium	mg/kg	**16 J**	**31 J**	-	**22.8**	**8.6**	**23.1**	**18.7**
Zinc	mg/kg	**520 J**	**2000 J**	-	**54.2 J**	**23.0 J**	**54.8 J**	**48.1 J**
TCLP Metals								
Barium	mg/L	-	-	-	-	-	-	-
Cadmium	mg/L	-	-	-	-	-	-	-
Selenium	mg/L	-	-	-	-	-	-	-
PCBs								
Aroclor-1248 (PCB-1248)	ug/kg	19 U	24 U	-	36 U	34 U	37 U	35 U
Aroclor-1254 (PCB-1254)	ug/kg	**41 J**	20 U	-	36 U	34 U	37 U	35 U
Aroclor-1260 (PCB-1260)	ug/kg	20 U	**34 J**	-	36 U	34 U	37 U	35 U

Table 14

Summary of Detections
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TP-9**	**TP-10**	**TP-10**	**TT-1**	**TT-1**	**TT-2**	**TT-2**
Sample ID:		**S-38443-110917-BW-038**	**S-38443-110917-BW-036**	**TP-10**	**S-38443-092608-KMV-018**	**S-38443-092608-KMV-019**	**S-38443-092608-KMV-020**	**S-38443-092608-KMV-021**
Sample Date:		**11/9/2017**	**11/9/2017**	**11/9/2017**	**9/26/2008**	**9/26/2008**	**9/26/2008**	**9/26/2008**
Sample Depth:		**2-4 ft BGS**	**4-6 ft BGS**	**8-10 ft BGS**	**8 ft BGS**	**15 ft BGS**	**9 ft BGS**	**13.5 ft BGS**
Parameters	**Units**							
Pesticides								
4,4'-DDD	ug/kg	**8.6 NJ**	4.6 U	-	18 U	18 U	9.6 U	9.1 U
4,4'-DDE	ug/kg	2.8 U	1.7 U	-	18 U	18 U	9.6 U	9.1 U
4,4'-DDT	ug/kg	3.2 U	2.0 U	-	18 U	18 U	9.6 U	9.1 U
alpha-Chlordane	ug/kg	8.7 U	5.3 U	-	18 U	18 U	9.6 U	9.1 U
Dieldrin	ug/kg	2.1 U	1.3 U	-	18 U	18 U	9.6 U	9.1 U
Endrin	ug/kg	3.2 U	2.0 U	-	18 U	18 U	9.6 U	9.1 U
Endrin aldehyde	ug/kg	**5.1 J**	2.5 U	-	18 U	18 U	9.6 U	9.1 U
Endrin ketone	ug/kg	2.5 U	1.5 U	-	18 U	18 U	9.6 U	9.1 U
gamma-BHC (lindane)	ug/kg	6.7 U	4.0 U	-	18 U	18 U	9.6 U	9.1 U
gamma-Chlordane	ug/kg	3.5 U	2.1 U	-	18 U	18 U	9.6 U	9.1 U
Heptachlor epoxide	ug/kg	5.5 U	3.4 U	-	18 U	18 U	9.6 U	9.1 U
Methoxychlor	ug/kg	**8.1 NJ**	**5.0 NJ**	-	36 U	34 U	19 U	18 U
Herbicides								
2,4,5-TP (Silvex)	ug/kg	-	-	-	22 U	21 U	22 U	21 U
Dioxin/Furans								
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	7.9 U	**56**	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	**35**	**340**	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	**11**	**250**	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	**9.4**	**110**	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	**0.80 J**	**12**	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	**2.3 J**	**170**	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	**0.38 J**	**8.9**	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	**1.1 J**	**53 J**	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	**2.0 J**	**17**	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	**1.1 J**	**25**	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	**0.87 J**	**36**	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	1.2 U	**10 J**	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	**0.90 J**	**75**	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	**1.2 J**	**89**	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	**1.5 J**	**57**	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	**0.10 J**	**4.0**	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	**23 J**	**320 J**	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	**21 J**	**220 J**	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	**19 J**	**620 J**	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	**14 J**	**260 J**	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	**27 J**	**1000 J**	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	**430 J**	**230 J**	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	**49 J**	**1900 J**	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	**6.5 J**	**230 J**	-	-	-	-	-
Asbestos								
Chrysotile asbestos	%	-	-	1 <	-	-	-	-

Table 14

Summary of Detections
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TP-9**	**TP-10**	**TP-10**	**TT-1**	**TT-1**	**TT-2**	**TT-2**
Sample ID:		**S-38443-110917-BW-038**	**S-38443-110917-BW-036**	**TP-10**	**S-38443-092608-KMV-018**	**S-38443-092608-KMV-019**	**S-38443-092608-KMV-020**	**S-38443-092608-KMV-021**
Sample Date:		**11/9/2017**	**11/9/2017**	**11/9/2017**	**9/26/2008**	**9/26/2008**	**9/26/2008**	**9/26/2008**
Sample Depth:		**2-4 ft BGS**	**4-6 ft BGS**	**8-10 ft BGS**	**8 ft BGS**	**15 ft BGS**	**9 ft BGS**	**13.5 ft BGS**
Parameters	**Units**							
General Chemistry								
Cyanide (total)	mg/kg	0.53 U	0.64 U	-	0.54 U	0.52 U	0.56 U	0.54 U
Ignitability	deg F	-	-	-	-	-	-	-
pH corrosivity	s.u.	-	-	-	-	-	-	-
Sulfide	mg/kg	-	-	-	-	-	-	-
Total solids	%	-	-	-	**92.8**	**96.1**	**89.0**	**93.3**

Notes
< - Less than reported value.
> - Greater than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 14

Summary of Detections
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-3**	**TT-3**	**TT-4**	**TT-4**	**TT-4**	**TT-4**	**TT-4**
Sample ID:		**S-38443-092908-KMV-022**	**S-38443-092908-KMV-023**	**S-38443-092908-KMV-024**	**S-38443-092908-KMV-025**	**S-38443-092908-KMV-026**	**S-38443-092908-KMV-027**	**S-38443-092908-KMV-028**
Sample Date:		**9/29/2008**	**9/29/2008**	**9/29/2008**	**9/29/2008**	**9/29/2008**	**9/29/2008**	**9/29/2008**
Sample Depth:		**5 ft BGS**	**10 ft BGS**	**3 ft BGS**	**5 ft BGS**	**9 ft BGS**	**12 ft BGS**	**20 ft BGS**
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/kg	16 UJ	7.9 U	8.1 U	6.1 U	4.8 U	4.8 U	5.3 U
1,4-Dichlorobenzene	ug/kg	R	**1.2 J**	8.1 UJ	6.1 U	4.8 U	4.8 U	5.3 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	64 UJ	32 U	32 U	25 U	19 U	19 U	21 U
Acetone	ug/kg	64 UJ	32 U	32 U	25 U	19 U	19 U	21 U
Benzene	ug/kg	16 UJ	7.9 U	8.1 U	6.1 U	4.8 U	4.8 U	5.3 U
Carbon disulfide	ug/kg	16 UJ	7.9 U	8.1 U	6.1 U	4.8 U	4.8 U	5.3 U
Chloroform (Trichloromethane)	ug/kg	16 UJ	**0.66 J**	8.1 U	6.1 U	4.8 U	4.8 U	5.3 U
cis-1,2-Dichloroethene	ug/kg	16 UJ	7.9 U	8.1 U	6.1 U	4.8 U	4.8 U	5.3 U
Cyclohexane	ug/kg	32 UJ	16 U	16 U	12 U	9.7 U	9.7 U	11 U
Ethylbenzene	ug/kg	16 UJ	7.9 UJ	8.1 UJ	6.1 U	4.8 U	4.8 U	5.3 U
Isopropyl benzene	ug/kg	16 UJ	7.9 UJ	8.1 UJ	6.1 U	4.8 U	4.8 U	5.3 U
Methyl acetate	ug/kg	32 UJ	16 U	16 U	12 U	9.7 U	9.7 U	11 U
Methyl cyclohexane	ug/kg	32 UJ	16 U	16 U	12 U	9.7 U	9.7 U	11 U
Methylene chloride	ug/kg	**29 J**	7.9 U	9.3 U	6.1 U	4.8 U	4.8 U	5.3 U
Tetrachloroethene	ug/kg	16 UJ	7.9 UJ	8.1 UJ	6.1 U	4.8 U	4.8 U	5.3 U
Toluene	ug/kg	16 UJ	**0.57 J**	8.1 UJ	6.1 U	4.8 U	4.8 U	5.3 U
Trichloroethene	ug/kg	16 UJ	7.9 U	8.1 U	6.1 U	4.8 U	4.8 U	5.3 U
Xylenes (total)	ug/kg	32 UJ	16 UJ	16 UJ	12 U	9.7 U	9.7 U	11 U
Semi-Volatiles								
2-Methylnaphthalene	ug/kg	**38**	**25**	75 U	**22**	7.0 U	7.5 U	7.2 U
Acenaphthene	ug/kg	30 U	7.2 U	**77**	**110**	7.0 U	7.5 U	7.2 U
Acenaphthylene	ug/kg	30 U	**9.5**	**100**	18 U	7.0 U	7.5 U	7.2 U
Acetophenone	ug/kg	450 U	110 U	1100 U	270 U	100 U	110 U	110 U
Anthracene	ug/kg	30 U	**22**	**620**	**470**	7.0 U	7.5 U	**8.3**
Benzaldehyde	ug/kg	450 U	110 U	1100 U	270 U	100 U	110 U	110 U
Benzo(a)anthracene	ug/kg	30 U	**85**	**1700**	**790**	**8.0**	**27**	**24**
Benzo(a)pyrene	ug/kg	30 U	**88**	**800**	**540**	**7.4**	**23**	**22**
Benzo(b)fluoranthene	ug/kg	**36**	**140**	**2900**	**730**	**12**	**61**	**33**
Benzo(g,h,i)perylene	ug/kg	30 U	**91**	**950**	**330**	7.0 U	**31**	**17**
Benzo(k)fluoranthene	ug/kg	30 U	**40**	**870**	**320**	7.0 U	**19**	**12**
Biphenyl (1,1-Biphenyl)	ug/kg	220 U	54 U	560 U	130 U	52 U	56 U	54 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	**160 J**	**76**	560 U	130 U	52 U	56 U	54 U
Butyl benzylphthalate (BBP)	ug/kg	**690**	**630**	**1100**	130 U	52 U	**240**	54 U
Carbazole	ug/kg	220 U	54 U	**210 J**	**260**	52 U	56 U	54 U
Chrysene	ug/kg	**34**	**120**	**2800**	**760**	**8.1**	**47**	**26**
Dibenz(a,h)anthracene	ug/kg	30 U	**15**	**260**	**68**	7.0 U	7.5 U	7.2 U
Dibenzofuran	ug/kg	220 U	54 U	560 U	**80 J**	52 U	56 U	54 U
Diethyl phthalate	ug/kg	220 U	54 U	560 U	130 U	52 U	56 U	54 U
Di-n-butylphthalate (DBP)	ug/kg	220 U	**100**	**560**	130 U	52 U	**47 J**	54 U
Fluoranthene	ug/kg	**61**	**190**	**3000**	**2200**	**14**	**39**	**47**
Fluorene	ug/kg	30 U	**7.3**	**90**	**140**	7.0 U	7.5 U	7.2 U
Indeno(1,2,3-cd)pyrene	ug/kg	30 U	**54**	**800**	**270**	7.0 U	**24**	**15**
Naphthalene	ug/kg	30 U	**19**	75 U	**43**	7.0 U	7.5 U	**13**

Table 14

Summary of Detections
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-3**	**TT-3**	**TT-4**	**TT-4**	**TT-4**	**TT-4**	**TT-4**
Sample ID:		**S-38443-092908-KMV-022**	**S-38443-092908-KMV-023**	**S-38443-092908-KMV-024**	**S-38443-092908-KMV-025**	**S-38443-092908-KMV-026**	**S-38443-092908-KMV-027**	**S-38443-092908-KMV-028**
Sample Date:		**9/29/2008**	**9/29/2008**	**9/29/2008**	**9/29/2008**	**9/29/2008**	**9/29/2008**	**9/29/2008**
Sample Depth:		**5 ft BGS**	**10 ft BGS**	**3 ft BGS**	**5 ft BGS**	**9 ft BGS**	**12 ft BGS**	**20 ft BGS**
Parameters	**Units**							
Pentachlorophenol	ug/kg	670 U	**110 J**	1700 U	400 U	160 U	170 U	160 U
Phenanthrene	ug/kg	**39**	**100**	**970**	**1900**	7.0 U	**10**	**38**
Phenol	ug/kg	220 U	54 U	560 U	130 U	52 U	56 U	54 U
Pyrene	ug/kg	**75**	**160**	**2400**	**1600**	**12**	**36**	**39**
Metals								
Aluminum	mg/kg	**5080**	**4190**	**6760**	**4300**	**3330**	**7310**	**2000**
Antimony	mg/kg	**4.0 J**	**1.5 J**	**199 J**	**8.2 J**	**1.1 J**	**1.8 J**	**0.85 J**
Arsenic	mg/kg	**22.7**	**11.9**	**57.3**	**17.3**	**5.5**	**8.3**	**3.5**
Barium	mg/kg	**535**	**224**	**1030**	**139**	**47.9**	**124**	**23.7**
Beryllium	mg/kg	**3.9 J**	**0.89 J**	**1.5 J**	**0.55 J**	**0.058 J**	**0.32 J**	0.54 U
Cadmium	mg/kg	**1.6**	**15.1**	**30.5**	**1.4**	**0.21 J**	**0.43 J**	**0.14 J**
Calcium	mg/kg	**11000 J**	**30300 J**	**39200 J**	**217000 J**	**95800 J**	**48900 J**	**108000 J**
Chromium	mg/kg	**11.0**	**19.5**	**74.0**	**12.9**	**7.5**	**11.2**	**4.6**
Chromium III (trivalent)	mg/kg	-	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-	-
Cobalt	mg/kg	**8.1**	**4.8 J**	**14.7**	**4.8 J**	**3.6 J**	**5.7**	**2.5 J**
Copper	mg/kg	**186**	**181**	**43400**	**69.1**	**49.8**	**34.6**	**17.7**
Iron	mg/kg	**8230**	**10500**	**82400**	**8180**	**10100**	**15700**	**6470**
Lead	mg/kg	**116 J**	**426 J**	**3970 J**	**72.1 J**	**17.0 J**	**32.8 J**	**12.3 J**
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-
Magnesium	mg/kg	**1750**	**13600**	**20800**	**9140**	**32900**	**22600**	**45700**
Manganese	mg/kg	**80.3 J**	**184 J**	**533 J**	**165 J**	**252 J**	**609 J**	**236 J**
Mercury	mg/kg	**0.16**	**0.17**	**0.84**	**0.089 J**	**0.017 J**	**0.052 J**	0.11 U
Nickel	mg/kg	**17.9**	**19.1**	**129**	**13.6**	**9.7**	**16.4**	**5.8**
Potassium	mg/kg	**800 J**	**503 J**	**1020 J**	**637 J**	**543 J**	**990 J**	**335 J**
Selenium	mg/kg	**1.7 J**	**0.85 J**	**20.1 J**	**0.90 J**	26.1 U	28.1 U	26.9 U
Silver	mg/kg	**0.34 J**	**0.22 J**	**3.1**	**0.37 J**	1.0 U	1.1 U	1.1 U
Sodium	mg/kg	**135 J**	**99.1 J**	**592**	**112 J**	**81.1 J**	561 U	**125 J**
Thallium	mg/kg	**0.63**	**0.29**	5.6 U	**0.41**	0.11 U	0.20 U	0.11 U
Vanadium	mg/kg	**28.2 J**	**15.2 J**	**35.7 J**	**17.2 J**	**12.8 J**	**18.8 J**	**9.6 J**
Zinc	mg/kg	**165 J**	**230 J**	**3070 J**	**115 J**	**38.6 J**	**67.6 J**	**30.1 J**
TCLP Metals								
Barium	mg/L	-	-	-	-	-	-	-
Cadmium	mg/L	-	-	-	-	-	-	-
Selenium	mg/L	-	-	-	-	-	-	-
PCBs								
Aroclor-1248 (PCB-1248)	ug/kg	36 U	36 U	37 U	35 U	34 UJ	37 UJ	36 UJ
Aroclor-1254 (PCB-1254)	ug/kg	36 U	36 U	37 U	**52**	34 UJ	37 UJ	36 UJ
Aroclor-1260 (PCB-1260)	ug/kg	**280**	**230**	**520 J**	35 U	34 UJ	**23 J**	36 UJ

Table 14

Summary of Detections
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-3**	**TT-3**	**TT-4**	**TT-4**	**TT-4**	**TT-4**	**TT-4**
Sample ID:		**S-38443-092908-KMV-022**	**S-38443-092908-KMV-023**	**S-38443-092908-KMV-024**	**S-38443-092908-KMV-025**	**S-38443-092908-KMV-026**	**S-38443-092908-KMV-027**	**S-38443-092908-KMV-028**
Sample Date:		**9/29/2008**	**9/29/2008**	**9/29/2008**	**9/29/2008**	**9/29/2008**	**9/29/2008**	**9/29/2008**
Sample Depth:		**5 ft BGS**	**10 ft BGS**	**3 ft BGS**	**5 ft BGS**	**9 ft BGS**	**12 ft BGS**	**20 ft BGS**
Parameters	**Units**							
Pesticides								
4,4'-DDD	ug/kg	37 UJ	92 U	190 U	91 U	18 UJ	38 U	18 UJ
4,4'-DDE	ug/kg	**10 J**	**40 J**	**51 J**	**24 J**	18 U	38 U	18 U
4,4'-DDT	ug/kg	37 UJ	**36 J**	**820**	**43 J**	18 UJ	**22 J**	18 UJ
alpha-Chlordane	ug/kg	37 U	92 U	190 U	91 U	18 U	38 U	18 U
Dieldrin	ug/kg	**20 J**	92 U	**65 J**	91 U	18 U	38 U	18 U
Endrin	ug/kg	37 U	92 U	190 U	91 U	18 U	38 U	18 U
Endrin aldehyde	ug/kg	37 U	92 U	190 U	91 U	18 U	38 U	18 U
Endrin ketone	ug/kg	37 U	92 U	**89 J**	91 U	18 U	38 U	18 U
gamma-BHC (lindane)	ug/kg	37 U	92 U	190 U	91 U	18 U	38 U	18 U
gamma-Chlordane	ug/kg	37 U	92 U	190 U	91 U	18 U	38 U	18 U
Heptachlor epoxide	ug/kg	37 U	92 U	190 U	91 U	18 U	38 U	18 U
Methoxychlor	ug/kg	72 UJ	180 U	370 U	180 U	34 UJ	74 U	36 UJ
Herbicides								
2,4,5-TP (Silvex)	ug/kg	**4.6 J**	22 U	22 U	22 U	21 U	22 U	22 U
Dioxin/Furans								
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Asbestos								
Chrysotile asbestos	%	-	-	-	-	-	-	-

Table 14

Summary of Detections
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-3**	**TT-3**	**TT-4**	**TT-4**	**TT-4**	**TT-4**	**TT-4**
Sample ID:		**S-38443-092908-KMV-022**	**S-38443-092908-KMV-023**	**S-38443-092908-KMV-024**	**S-38443-092908-KMV-025**	**S-38443-092908-KMV-026**	**S-38443-092908-KMV-027**	**S-38443-092908-KMV-028**
Sample Date:		**9/29/2008**	**9/29/2008**	**9/29/2008**	**9/29/2008**	**9/29/2008**	**9/29/2008**	**9/29/2008**
Sample Depth:		**5 ft BGS**	**10 ft BGS**	**3 ft BGS**	**5 ft BGS**	**9 ft BGS**	**12 ft BGS**	**20 ft BGS**
Parameters	**Units**							
General Chemistry								
Cyanide (total)	mg/kg	**0.46 J**	**0.37 J**	**0.90**	**2.1**	0.52 U	0.56 U	**0.45 J**
Ignitability	deg F	-	-	-	-	-	-	-
pH corrosivity	s.u.	-	-	-	-	-	-	-
Sulfide	mg/kg	-	-	-	-	-	-	-
Total solids	%	**92.2**	**92.6**	**88.9**	**93.0**	**95.9**	**89.1**	**93.0**

Notes
< - Less than reported value.
> - Greater than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 14

Summary of Detections
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-5**	**TT-5**	**TT-5**	**TT-5**	**TT-5**	**TT-19**
Sample ID:		**S-38443-093008-KMV-029**	**S-38443-093008-KMV-030**	**S-38443-093008-KMV-031**	**S-38443-093008-KMV-031-D**	**S-38443-093008-KMV-032**	**S-38443-100708-KMV-059**
Sample Date:		**9/30/2008**	**9/30/2008**	**9/30/2008**	**9/30/2008**	**9/30/2008**	**10/7/2008**
Sample Depth:		**3 ft BGS**	**7 ft BGS**	**14 ft BGS**	**14 ft BGS**	**17 ft BGS**	**7 ft BGS**
					Duplicate		
Parameters	**Units**						
Volatiles							
1,1,1-Trichloroethane	ug/kg	6.4 U	9.2 U	9.2 U	7.7 U	5.3 U	**2.7 J**
1,4-Dichlorobenzene	ug/kg	6.4 U	9.2 UJ	9.2 UJ	7.7 UJ	5.3 U	6.4 UJ
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	25 U	37 U	37 U	31 U	21 U	26 U
Acetone	ug/kg	25 U	37 U	37 U	31 U	21 U	26 U
Benzene	ug/kg	6.4 U	9.2 U	9.2 U	7.7 U	5.3 U	**1.0 J**
Carbon disulfide	ug/kg	6.4 U	9.2 U	9.2 U	7.7 U	5.3 U	6.4 U
Chloroform (Trichloromethane)	ug/kg	6.4 U	9.2 U	9.2 U	7.7 U	5.3 U	6.4 U
cis-1,2-Dichloroethene	ug/kg	6.4 U	9.2 U	9.2 U	7.7 U	**0.62 J**	6.4 U
Cyclohexane	ug/kg	13 U	18 U	18 U	15 U	11 U	13 U
Ethylbenzene	ug/kg	6.4 U	9.2 U	9.2 UJ	7.7 U	5.3 U	6.4 U
Isopropyl benzene	ug/kg	6.4 U	9.2 U	9.2 UJ	7.7 U	5.3 U	6.4 U
Methyl acetate	ug/kg	13 U	18 U	18 U	15 U	11 U	13 U
Methyl cyclohexane	ug/kg	13 U	18 U	18 U	15 U	**0.82 J**	13 U
Methylene chloride	ug/kg	6.4 U	9.2 U	9.2 U	7.7 U	5.3 U	6.4 U
Tetrachloroethene	ug/kg	6.4 U	**4.5 J**	**20 J**	**1.9 J**	5.3 U	**1.6 J**
Toluene	ug/kg	6.4 U	9.2 U	9.2 UJ	7.7 U	**0.61 J**	**1.6 J**
Trichloroethene	ug/kg	**1.0 J**	**4.9 J**	**9.7**	**3.3 J**	**1.7 J**	**29**
Xylenes (total)	ug/kg	13 U	18 U	18 UJ	15 U	11 U	**2.0 J**
Semi-Volatiles							
2-Methylnaphthalene	ug/kg	**81**	180 U	**210**	**170**	7.4 U	7.1 U
Acenaphthene	ug/kg	**140**	180 U	**1500**	**1400**	7.4 U	7.1 U
Acenaphthylene	ug/kg	**180**	180 U	92 U	150 U	7.4 U	7.1 U
Acetophenone	ug/kg	1100 U	2600 U	1400 U	2200 U	110 U	110 U
Anthracene	ug/kg	**800**	180 U	**3300**	**3200**	7.4 U	7.1 U
Benzaldehyde	ug/kg	1100 U	2600 U	1400 U	2200 U	110 U	110 U
Benzo(a)anthracene	ug/kg	**6300**	**280**	**7100**	**6300**	**8.0**	**48**
Benzo(a)pyrene	ug/kg	**6000**	**270**	**4400**	**4400**	**7.7**	**58**
Benzo(b)fluoranthene	ug/kg	**8700**	**390**	**6000**	**5800**	**11**	**78**
Benzo(g,h,i)perylene	ug/kg	**3600**	**240**	**1800**	**1900**	7.4 U	**44**
Benzo(k)fluoranthene	ug/kg	**2900**	180 U	**2800**	**2600**	7.4 U	**36**
Biphenyl (1,1-Biphenyl)	ug/kg	530 U	1300 U	690 U	1100 U	56 U	53 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	530 U	1300 U	690 U	1100 U	56 U	53 U
Butyl benzylphthalate (BBP)	ug/kg	**310 J**	1300 U	690 U	1100 U	56 U	53 U
Carbazole	ug/kg	530 U	1300 U	**1700**	**1500**	56 U	53 U
Chrysene	ug/kg	**5700**	**240**	**6200**	**5900**	7.4 U	**60**
Dibenz(a,h)anthracene	ug/kg	**1200**	180 U	**590**	**600**	7.4 U	7.1 U
Dibenzofuran	ug/kg	530 U	1300 U	**890**	**770 J**	56 U	53 U
Diethyl phthalate	ug/kg	530 U	1300 U	690 U	1100 U	56 U	53 U
Di-n-butylphthalate (DBP)	ug/kg	530 U	1300 U	690 U	1100 U	56 U	53 U
Fluoranthene	ug/kg	**10000**	**320**	**16000**	**15000**	**13**	**75**
Fluorene	ug/kg	**94**	180 U	**1500**	**1300**	7.4 U	7.1 U
Indeno(1,2,3-cd)pyrene	ug/kg	**3500**	**220**	**2000**	**2000**	7.4 U	**37**
Naphthalene	ug/kg	70 U	180 U	**380**	**310**	7.4 U	7.1 U

Table 14

Summary of Detections
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-5**	**TT-5**	**TT-5**	**TT-5**	**TT-5**	**TT-19**
Sample ID:		**S-38443-093008-KMV-029**	**S-38443-093008-KMV-030**	**S-38443-093008-KMV-031**	**S-38443-093008-KMV-031-D**	**S-38443-093008-KMV-032**	**S-38443-100708-KMV-059**
Sample Date:		**9/30/2008**	**9/30/2008**	**9/30/2008**	**9/30/2008**	**9/30/2008**	**10/7/2008**
Sample Depth:		**3 ft BGS**	**7 ft BGS**	**14 ft BGS**	**14 ft BGS**	**17 ft BGS**	**7 ft BGS**
					Duplicate		
Parameters	**Units**						
Pentachlorophenol	ug/kg	1600 U	4000 U	2100 U	3300 U	170 U	160 U
Phenanthrene	ug/kg	**1900**	180 U	**13000**	**12000**	7.4 U	**29**
Phenol	ug/kg	530 U	1300 U	690 U	1100 U	56 U	53 U
Pyrene	ug/kg	**9200**	**290**	**13000**	**12000**	**12**	**58**
Metals							
Aluminum	mg/kg	**2640**	**9700**	**5340**	**5760**	**1200**	**7420**
Antimony	mg/kg	**29.1 J**	**669 J**	**13.5 J**	**26.7 J**	**1.3 J**	**5.2 J**
Arsenic	mg/kg	**8.6**	**29.7**	**31.7**	**25.1**	**7.5**	**7.6**
Barium	mg/kg	**159**	**423**	**254**	**276**	**17.9 J**	**1310**
Beryllium	mg/kg	**0.27 J**	**0.36 J**	**4.0 J**	**2.8**	**0.094 J**	**0.30 J**
Cadmium	mg/kg	**2.6**	**34.2**	**0.86 J**	**3.3 J**	**0.11 J**	**46.1 J**
Calcium	mg/kg	**120000 J**	**7780 J**	**19100 J**	**32500 J**	**139000 J**	**49000**
Chromium	mg/kg	**20.2**	**138**	**18.1**	**20.8**	**3.2**	**93.8 J**
Chromium III (trivalent)	mg/kg	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-
Cobalt	mg/kg	**4.7 J**	**22.5**	**12.4**	**9.5**	**2.0 J**	**16.9**
Copper	mg/kg	**2360**	**10400**	**114**	**270**	**15.2**	**947 J**
Iron	mg/kg	**14300**	**121000**	**8570**	**11400**	**7600**	**27700**
Lead	mg/kg	**484 J**	**14100 J**	**82.3 J**	**178 J**	**6.4 J**	**971**
Lead - coarse fraction	mg/kg	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-
Magnesium	mg/kg	**58700**	**14000**	**6240**	**10400 J**	**84800**	**17100**
Manganese	mg/kg	**220 J**	**1490 J**	**155 J**	**224**	**183 J**	**479 J**
Mercury	mg/kg	**0.49**	**0.69**	**0.15**	**0.22**	0.11 U	**0.088 J**
Nickel	mg/kg	**56.8**	**475**	**30.2**	**40.2**	**6.8**	**34.4 J**
Potassium	mg/kg	**541 J**	**1850 J**	**852 J**	**799**	**277 J**	**1150**
Selenium	mg/kg	**0.66 J**	331 U	**0.83 J**	**0.82 J**	27.8 U	26.6 U
Silver	mg/kg	**0.50 J**	**5.5**	**0.37 J**	**0.42 J**	1.1 U	**0.45 J**
Sodium	mg/kg	**242 J**	**3110**	**136 J**	**194 J**	**194 J**	**500 J**
Thallium	mg/kg	0.13 U	26.4 U	**1.4**	0.56 U	0.11 U	**0.17**
Vanadium	mg/kg	**12.1 J**	**51.8 J**	**29.3 J**	**25.4**	**5.0 J**	**20.1**
Zinc	mg/kg	**640 J**	**21900 J**	**165 J**	**440**	**22.8 J**	**922**
TCLP Metals							
Barium	mg/L	-	-	-	-	-	-
Cadmium	mg/L	-	-	-	-	-	-
Selenium	mg/L	-	-	-	-	-	-
PCBs							
Aroclor-1248 (PCB-1248)	ug/kg	35 U	44 U	36 U	37 U	37 UJ	**8100**
Aroclor-1254 (PCB-1254)	ug/kg	**230**	**510**	**170**	**160**	37 UJ	1800 U
Aroclor-1260 (PCB-1260)	ug/kg	35 U	44 U	36 U	37 U	37 UJ	**1300 J**

Table 14

Summary of Detections
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-5**	**TT-5**	**TT-5**	**TT-5**	**TT-5**	**TT-19**
Sample ID:		**S-38443-093008-KMV-029**	**S-38443-093008-KMV-030**	**S-38443-093008-KMV-031**	**S-38443-093008-KMV-031-D**	**S-38443-093008-KMV-032**	**S-38443-100708-KMV-059**
Sample Date:		**9/30/2008**	**9/30/2008**	**9/30/2008**	**9/30/2008**	**9/30/2008**	**10/7/2008**
Sample Depth:		**3 ft BGS**	**7 ft BGS**	**14 ft BGS**	**14 ft BGS**	**17 ft BGS**	**7 ft BGS**
					Duplicate		
Parameters	**Units**						
Pesticides							
4,4'-DDD	ug/kg	180 UJ	110 UJ	94 U	190 U	9.4 UJ	36 U
4,4'-DDE	ug/kg	**52 J**	110 U	94 U	190 U	9.4 U	**49**
4,4'-DDT	ug/kg	180 UJ	110 UJ	**47 J**	190 U	9.4 UJ	36 UJ
alpha-Chlordane	ug/kg	180 U	110 U	94 U	190 U	9.4 U	36 U
Dieldrin	ug/kg	180 U	110 U	94 U	190 U	9.4 U	**31 J**
Endrin	ug/kg	180 U	110 U	94 U	190 U	9.4 U	36 U
Endrin aldehyde	ug/kg	180 U	110 U	94 U	190 U	9.4 U	36 U
Endrin ketone	ug/kg	180 U	110 U	94 U	190 U	9.4 U	36 U
gamma-BHC (lindane)	ug/kg	180 U	110 U	94 U	190 U	9.4 U	**18 J**
gamma-Chlordane	ug/kg	180 U	110 U	94 U	190 U	9.4 U	**30 J**
Heptachlor epoxide	ug/kg	180 U	110 U	94 U	190 U	9.4 U	36 U
Methoxychlor	ug/kg	350 UJ	220 UJ	180 U	370 U	18 UJ	70 U
Herbicides							
2,4,5-TP (Silvex)	ug/kg	21 U	26 U	22 U	22 U	22 U	21 U
Dioxin/Furans							
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-
Asbestos							
Chrysotile asbestos	%	-	-	-	-	-	-

Table 14

Summary of Detections
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-5**	**TT-5**	**TT-5**	**TT-5**	**TT-5**	**TT-19**
Sample ID:		**S-38443-093008-KMV-029**	**S-38443-093008-KMV-030**	**S-38443-093008-KMV-031**	**S-38443-093008-KMV-031-D**	**S-38443-093008-KMV-032**	**S-38443-100708-KMV-059**
Sample Date:		**9/30/2008**	**9/30/2008**	**9/30/2008**	**9/30/2008**	**9/30/2008**	**10/7/2008**
Sample Depth:		**3 ft BGS**	**7 ft BGS**	**14 ft BGS**	**14 ft BGS**	**17 ft BGS**	**7 ft BGS**
					Duplicate		
Parameters	**Units**						
General Chemistry							
Cyanide (total)	mg/kg	**0.31 J**	**0.79 J**	0.55 U	0.56 U	0.56 U	**4.1**
Ignitability	deg F	-	-	-	-	-	-
pH corrosivity	s.u.	-	-	-	-	-	-
Sulfide	mg/kg	-	-	-	-	-	-
Total solids	%	**95.0**	**75.6**	**90.5**	**89.7**	**90.0**	**94.0**

Notes
< - Less than reported value.
> - Greater than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 14

Summary of Detections
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-19**	**TT-20**	**TT-20**	**TT-20**	**TT-20**
Sample ID:		**S-38443-100708-KMV-060**	**S-38443-100708-KMV-065**	**S-38443-100708-KMV-065-D**	**S-38443-100708-KMV-064**	**S-38443-100808-KMV-071**
Sample Date:		**10/7/2008**	**10/7/2008**	**10/7/2008**	**10/7/2008**	**10/8/2008**
Sample Depth:		**9 ft BGS**	**7 ft BGS**	**7 ft BGS**	**15 ft BGS**	**-**
Parameters	**Units**					
Volatiles						
1,1,1-Trichloroethane	ug/kg	5.2 U	-	290 UJ	5.4 U	-
1,4-Dichlorobenzene	ug/kg	5.2 U	-	290 UJ	5.4 U	-
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	21 U	-	1200 UJ	22 U	-
Acetone	ug/kg	21 U	-	1200 UJ	22 U	-
Benzene	ug/kg	5.2 U	-	290 UJ	5.4 U	-
Carbon disulfide	ug/kg	5.2 U	-	290 UJ	5.4 U	-
Chloroform (Trichloromethane)	ug/kg	5.2 U	-	290 UJ	5.4 U	-
cis-1,2-Dichloroethene	ug/kg	5.2 U	-	290 UJ	5.4 U	-
Cyclohexane	ug/kg	10 U	-	580 UJ	11 U	-
Ethylbenzene	ug/kg	5.2 U	-	290 UJ	5.4 U	-
Isopropyl benzene	ug/kg	5.2 U	-	290 UJ	5.4 U	-
Methyl acetate	ug/kg	10 U	-	580 UJ	11 U	-
Methyl cyclohexane	ug/kg	**0.83 J**	-	580 UJ	11 U	-
Methylene chloride	ug/kg	5.2 U	-	290 UJ	5.4 U	-
Tetrachloroethene	ug/kg	5.2 U	-	**2500 J**	**57**	-
Toluene	ug/kg	**0.41 J**	-	**24 J**	5.4 U	-
Trichloroethene	ug/kg	5.2 U	-	**60 J**	5.4 U	-
Xylenes (total)	ug/kg	**1.4 J**	-	580 UJ	**1.4 J**	-
Semi-Volatiles						
2-Methylnaphthalene	ug/kg	7.0 U	**16**	-	8.0 U	-
Acenaphthene	ug/kg	7.0 U	**12**	-	8.0 U	-
Acenaphthylene	ug/kg	7.0 U	**120**	-	8.0 U	-
Acetophenone	ug/kg	110 U	130 U	-	120 U	-
Anthracene	ug/kg	**9.8**	**110**	-	**20**	-
Benzaldehyde	ug/kg	110 U	130 U	-	120 U	-
Benzo(a)anthracene	ug/kg	**21**	**730**	-	**57**	-
Benzo(a)pyrene	ug/kg	**18**	**660**	-	**51**	-
Benzo(b)fluoranthene	ug/kg	**20**	**950**	-	**59**	-
Benzo(g,h,i)perylene	ug/kg	**11**	**420**	-	**28**	-
Benzo(k)fluoranthene	ug/kg	**9.7**	**370**	-	**27**	-
Biphenyl (1,1-Biphenyl)	ug/kg	53 U	66 U	-	60 U	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	53 U	66 U	-	60 U	-
Butyl benzylphthalate (BBP)	ug/kg	53 U	66 U	-	60 U	-
Carbazole	ug/kg	53 U	**69**	-	60 U	-
Chrysene	ug/kg	**19**	**600**	-	**53**	-
Dibenz(a,h)anthracene	ug/kg	7.0 U	**130**	-	8.0 U	-
Dibenzofuran	ug/kg	53 U	66 U	-	60 U	-
Diethyl phthalate	ug/kg	53 U	66 U	-	60 U	-
Di-n-butylphthalate (DBP)	ug/kg	53 U	**85**	-	60 U	-
Fluoranthene	ug/kg	**43**	**1100**	-	**99**	-
Fluorene	ug/kg	7.0 U	**20**	-	8.0 U	-
Indeno(1,2,3-cd)pyrene	ug/kg	7.0 U	**390**	-	**27**	-
Naphthalene	ug/kg	7.0 U	**27**	-	8.0 U	-

Table 14

Summary of Detections
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-19**	**TT-20**	**TT-20**	**TT-20**	**TT-20**
Sample ID:		**S-38443-100708-KMV-060**	**S-38443-100708-KMV-065**	**S-38443-100708-KMV-065-D**	**S-38443-100708-KMV-064**	**S-38443-100808-KMV-071**
Sample Date:		**10/7/2008**	**10/7/2008**	**10/7/2008**	**10/7/2008**	**10/8/2008**
Sample Depth:		**9 ft BGS**	**7 ft BGS**	**7 ft BGS**	**15 ft BGS**	**-**
Parameters	**Units**					
Pentachlorophenol	ug/kg	160 U	200 U	-	180 U	-
Phenanthrene	ug/kg	**31**	**250**	-	**33**	-
Phenol	ug/kg	53 U	66 U	-	60 U	-
Pyrene	ug/kg	**35**	**710**	-	**83**	-
Metals						
Aluminum	mg/kg	**2720**	**14800**	-	**4960**	-
Antimony	mg/kg	6.3 UJ	**17.9 J**	-	7.2 UJ	-
Arsenic	mg/kg	**4.0**	**29.3**	-	**5.1**	-
Barium	mg/kg	**29.5**	**4370**	-	**94.1**	-
Beryllium	mg/kg	0.53 U	**0.62 J**	-	**0.24 J**	-
Cadmium	mg/kg	**0.39 J**	**39.1 J**	-	**0.33 J**	-
Calcium	mg/kg	**119000**	**52700**	-	**56800**	-
Chromium	mg/kg	**6.0 J**	**93.4 J**	-	**7.7 J**	-
Chromium III (trivalent)	mg/kg	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-
Cobalt	mg/kg	**2.5 J**	**28.9**	-	**3.8 J**	-
Copper	mg/kg	**93.6 J**	**1000 J**	-	**23.2 J**	-
Iron	mg/kg	**8770**	**135000**	-	**11300**	-
Lead	mg/kg	**10.2 J**	**3480**	-	**8.0 J**	-
Lead - coarse fraction	mg/kg	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-
Magnesium	mg/kg	**48300**	**6120**	-	**19600**	-
Manganese	mg/kg	**183 J**	**997 J**	-	**386 J**	-
Mercury	mg/kg	0.11 U	**2.2**	-	**0.022 J**	-
Nickel	mg/kg	**8.0 J**	**377 J**	-	**9.2 J**	-
Potassium	mg/kg	**613**	**2150**	-	**484 J**	-
Selenium	mg/kg	26.3 U	164 U	-	29.9 U	-
Silver	mg/kg	1.1 U	**2.9**	-	1.2 U	-
Sodium	mg/kg	**129 J**	**1430**	-	597 U	-
Thallium	mg/kg	0.13 U	0.13 U	-	0.12 U	-
Vanadium	mg/kg	**10.1**	**21.7 J**	-	**12.8**	-
Zinc	mg/kg	**42.7**	**6970**	-	**35.8**	-
TCLP Metals						
Barium	mg/L	-	-	-	-	**1.2 BJ**
Cadmium	mg/L	-	-	-	-	**0.00071 B**
Selenium	mg/L	-	-	-	-	**0.0048 B**
PCBs						
Aroclor-1248 (PCB-1248)	ug/kg	56 U	43 U	-	39 U	38 U
Aroclor-1254 (PCB-1254)	ug/kg	35 U	**130**	-	39 UJ	38 U
Aroclor-1260 (PCB-1260)	ug/kg	35 U	43 U	-	39 UJ	38 U

Table 14

Summary of Detections
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-19**	**TT-20**	**TT-20**	**TT-20**	**TT-20**
Sample ID:		**S-38443-100708-KMV-060**	**S-38443-100708-KMV-065**	**S-38443-100708-KMV-065-D**	**S-38443-100708-KMV-064**	**S-38443-100808-KMV-071**
Sample Date:		**10/7/2008**	**10/7/2008**	**10/7/2008**	**10/7/2008**	**10/8/2008**
Sample Depth:		**9 ft BGS**	**7 ft BGS**	**7 ft BGS**	**15 ft BGS**	**-**
Parameters	**Units**					
Pesticides						
4,4'-DDD	ug/kg	1.8 U	45 U	-	10 U	-
4,4'-DDE	ug/kg	1.8 U	**15 J**	-	10 U	-
4,4'-DDT	ug/kg	1.8 UJ	45 U	-	10 UJ	-
alpha-Chlordane	ug/kg	1.8 U	45 U	-	10 U	-
Dieldrin	ug/kg	1.8 U	45 U	-	10 U	-
Endrin	ug/kg	1.8 U	45 U	-	10 U	-
Endrin aldehyde	ug/kg	1.8 U	45 U	-	10 U	-
Endrin ketone	ug/kg	1.8 U	45 U	-	10 U	-
gamma-BHC (lindane)	ug/kg	1.8 U	45 U	-	10 U	-
gamma-Chlordane	ug/kg	1.8 U	45 U	-	10 U	-
Heptachlor epoxide	ug/kg	1.8 U	45 U	-	10 U	-
Methoxychlor	ug/kg	3.5 U	87 U	-	20 U	-
Herbicides						
2,4,5-TP (Silvex)	ug/kg	21 U	26 U	-	24 U	-
Dioxin/Furans						
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-
Asbestos						
Chrysotile asbestos	%	-	-	-	-	-

Table 14

Summary of Detections
Soil/Fill Samples - EU17
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-19**	**TT-20**	**TT-20**	**TT-20**	**TT-20**
Sample ID:		**S-38443-100708-KMV-060**	**S-38443-100708-KMV-065**	**S-38443-100708-KMV-065-D**	**S-38443-100708-KMV-064**	**S-38443-100808-KMV-071**
Sample Date:		**10/7/2008**	**10/7/2008**	**10/7/2008**	**10/7/2008**	**10/8/2008**
Sample Depth:		**9 ft BGS**	**7 ft BGS**	**7 ft BGS**	**15 ft BGS**	**-**
Parameters	**Units**					
General Chemistry						
Cyanide (total)	mg/kg	0.53 U	**0.83**	-	0.60 U	**0.19 B**
Ignitability	deg F	-	-	-	-	**140 >**
pH corrosivity	s.u.	-	-	-	-	**8.3**
Sulfide	mg/kg	-	-	-	-	**18.6 B**
Total solids	%	**95.0**	**76.2**	**81.5**	**83.7**	**85.9**

Notes
< - Less than reported value.
> - Greater than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 15

Summary of Detections
Soil/Fill Samples - EU18
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:							**S2(EPA)**	**S03(OEPA)**	**S03(OEPA)**	**SS-26**	**SS-27**
Sample ID:							**S2**	**96-DV-03-S03**	**96-DV-03-D03**	**SS-38443-102618-JC-026**	**SS-38443-102618-JC-027**
Sample Date:							**10/23/1990**	**7/9/1996**	**7/9/1996**	**10/26/2018**	**10/26/2018**
Sample Depth:							**0-1 ft BGS**	**1.5-2 ft BGS**	**1.5-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
									Duplicate		
Parameters	**Units**	**Samples**	**Detects**	**Min Detect**	**Max Detect**	**Average (Detects)**					
Volatiles											
1,3-Dichlorobenzene	ug/kg	4	1	1.9	1.9	1.900	-	410 U	410 U	**1.9 J**	R
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	7	3	5.2	37	16.567	10 U	12 U	12 U	R	3.7 U
Acetone	ug/kg	7	1	3	3	3.000	5 U	12 U	**3 J**	R	22 U
Methylene chloride	ug/kg	7	1	55	55	55.000	-	12 JBU	12 JBU	**55 J**	12 U
Tetrachloroethene	ug/kg	6	1	3.7	3.7	3.700	5 U	12 U	12 U	**3.7 J**	0.76 U
Toluene	ug/kg	5	2	5	7	6.000	5 U	**7 J**	**5 J**	R	0.80 U
Trichloroethene	ug/kg	8	1	3.5	3.5	3.500	5 U	12 U	12 U	**3.5 J**	0.65 U
Semi-Volatiles											
2-Methylnaphthalene	ug/kg	8	6	13	1900	613.667	**250 J**	410 U	410 U	**1900**	**13 J**
3&4-Methylphenol	ug/kg	5	1	71	71	71.000	-	-	-	**71 J**	32 U
Acenaphthene	ug/kg	8	3	38	520	203.333	330 U	410 U	410 U	**52**	3.2 U
Acenaphthylene	ug/kg	7	2	380	1100	740.000	-	410 U	410 U	**380**	4.5 U
Acetophenone	ug/kg	5	3	38	150	83.333	-	-	-	**150 J**	**38 J**
Anthracene	ug/kg	8	5	4.9	2100	484.740	330 U	410 U	410 U	**250**	**5.8 J**
Benzaldehyde	ug/kg	5	2	92	200	146.000	-	-	-	**200**	26 U
Benzo(a)anthracene	ug/kg	8	6	11	6900	1459.333	**74 J**	410 U	410 U	**1500**	**11 J**
Benzo(a)pyrene	ug/kg	8	5	14	6000	1574.800	**140 J**	410 U	410 U	**1500**	10 U
Benzo(b)fluoranthene	ug/kg	8	6	12	8500	1956.667	**280 J**	410 U	410 U	**2600**	**12 J**
Benzo(g,h,i)perylene	ug/kg	8	4	10	3900	1432.500	330 U	410 U	410 U	**1600**	7.9 U
Benzo(k)fluoranthene	ug/kg	8	3	110	2900	1270.000	330 U	410 U	410 U	**800**	7.7 U
Biphenyl (1,1-Biphenyl)	ug/kg	5	2	74	160	117.000	-	-	-	**160**	19 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	8	3	92	240	150.667	330 U	410 U	410 U	**120 J**	57 U
Butyl benzylphthalate (BBP)	ug/kg	8	1	33	33	33.000	330 U	410 U	**33 J**	40 U	24 U
Carbazole	ug/kg	7	3	52	870	333.000	-	410 U	410 U	**77 J**	21 U
Chrysene	ug/kg	8	8	14	6700	1114.625	**150 J**	**21 J**	**25 J**	**1700**	**17**
Dibenz(a,h)anthracene	ug/kg	8	3	58	1200	556.000	330 U	410 U	410 U	**410**	7.7 U
Dibenzofuran	ug/kg	8	3	170	530	390.000	330 U	410 U	410 U	**470**	14 U
Di-n-butylphthalate (DBP)	ug/kg	8	1	27	27	27.000	330 U	410 U	**27 J**	40 U	24 U
Fluoranthene	ug/kg	8	6	14	15000	2945.000	**140 J**	410 U	410 U	**2000**	**14 J**
Fluorene	ug/kg	8	4	4.4	860	244.100	330 U	410 U	410 U	**75**	**4.4 J**
Indeno(1,2,3-cd)pyrene	ug/kg	8	3	160	3800	1753.333	330 U	410 U	410 U	**1300**	8.2 U
Naphthalene	ug/kg	8	6	20	1400	452.500	**150**	410 U	410 U	**1400**	**20**
Phenanthrene	ug/kg	8	8	22	7900	1251.375	**200 J**	**33 J**	**34 J**	**1200**	**32**
Phenol	ug/kg	7	2	46	48	47.000	-	410 U	410 U	**48 J**	8.9 U
Pyrene	ug/kg	8	6	14	12000	2487.667	**150 J**	410 U	410 U	**2300**	**14 J**
Metals											
Aluminum	mg/kg	8	8	1140	7600	3906.250	**3800**	**1910**	**1140**	**7500**	**1200**
Antimony	mg/kg	8	5	0.21	3.4	1.436	2.4 U	0.74 U	0.90 U	**1.6 J**	**0.57 J**
Arsenic	mg/kg	8	7	1.6	41	14.457	**6.8**	**1.6 B**	1.2 U	**41**	**3.8**
Barium	mg/kg	8	8	6.3	310	101.023	**23.28**	**12.2 B**	**7.2 B**	**310**	**6.3**
Beryllium	mg/kg	8	5	0.061	5.8	2.025	1 U	0.25 U	0.30 U	**5.8**	**0.063 J**
Cadmium	mg/kg	8	6	0.13	1.2	0.717	1 U	**0.43 B**	0.30 U	**0.76**	**0.13 J**

Table 15

Summary of Detections
Soil/Fill Samples - EU18
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:							**S2(EPA)**	**S03(OEPA)**	**S03(OEPA)**	**SS-26**	**SS-27**
Sample ID:							**S2**	**96-DV-03-S03**	**96-DV-03-D03**	**SS-38443-102618-JC-026**	**SS-38443-102618-JC-027**
Sample Date:							**10/23/1990**	**7/9/1996**	**7/9/1996**	**10/26/2018**	**10/26/2018**
Sample Depth:							**0-1 ft BGS**	**1.5-2 ft BGS**	**1.5-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
									Duplicate		
Parameters	**Units**	**Samples**	**Detects**	**Min Detect**	**Max Detect**	**Average (Detects)**					
Calcium	mg/kg	8	8	590	45000	13433.000	**13300**	**995 B**	**979 B**	**26000**	**590**
Chromium	mg/kg	8	8	8.5	52	26.000	**16.9**	**17.6**	**8.5**	**22**	**43**
Chromium III (trivalent)	mg/kg	5	5	17	52	32.600	-	-	-	**21**	**42**
Chromium VI (hexavalent)	mg/kg	5	2	0.56	0.91	0.735	-	-	-	**0.91 J**	**0.56 J**
Cobalt	mg/kg	8	7	1.4	16	6.343	10 U	**2.0 B**	**1.4 B**	**16**	**4.3**
Copper	mg/kg	8	8	34	210	97.475	**48.9 EJ**	**136**	**96.9**	**85**	**88**
Iron	mg/kg	8	8	9700	47000	21475.000	**18000**	**24200**	**15900**	**9700**	**47000**
Lead	mg/kg	8	8	6.4	170	57.750	**43**	**15.4**	**7.2**	**84**	**6.4**
Lead - coarse fraction	mg/kg	2	2	48	200	124.000	-	-	-	-	-
Lead - fine fraction	mg/kg	2	2	260	290	275.000	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	2	2	84	220	152.000	-	-	-	-	-
Magnesium	mg/kg	8	8	340	18000	5844.375	**7790**	**565 B**	**560 B**	**13000**	**340**
Manganese	mg/kg	8	8	120	1400	424.500	**344**	**427**	**265**	**120**	**510**
Mercury	mg/kg	8	3	0.097	0.4	0.272	0.008 U	0.12 U	0.15 U	**0.097 J**	0.019 U
Nickel	mg/kg	8	8	11.3	51	27.363	**13.9**	**18.7**	**11.3 B**	**30**	**51**
Potassium	mg/kg	8	8	81	1500	551.375	**308 B**	**126 B**	**86 B**	**1000**	**81 J**
Selenium	mg/kg	8	6	0.23	6.3	2.498	**1.2 BWJ**	0.99 U	1.2 U	**6.3**	**0.23 J**
Silver	mg/kg	8	5	0.082	0.35	0.188	2 U	0.25 U	0.30 U	**0.23 J**	**0.082 J**
Sodium	mg/kg	8	8	44	390	227.875	**123 B**	**327 B**	**318 B**	**290 J**	**44 J**
Thallium	mg/kg	8	5	0.89	2.4	1.538	2 U	**2.1 B**	**1.3 B**	**2.4**	0.039 U
Vanadium	mg/kg	8	8	0.62	60	16.228	**7.3 B**	**1.2 B**	**0.62 B**	**60**	**2.7**
Zinc	mg/kg	8	8	18	550	154.750	**550**	**41.7**	**22.3**	**160**	**18**
PCBs											
Aroclor-1248 (PCB-1248)	ug/kg	8	1	4200	4200	4200.000	**4200 X**	41 U	41 U	43 U	26 U
Aroclor-1254 (PCB-1254)	ug/kg	7	2	130	240	185.000	-	41 U	41 U	42 U	25 U
Aroclor-1260 (PCB-1260)	ug/kg	8	2	200	2800	1500.000	**2800 X**	41 U	41 U	**200**	24 U
Pesticides											
Endosulfan II	ug/kg	7	1	4	4	4.000	-	4.1 U	4.1 U	27 U	16 U
Endrin	ug/kg	7	1	2.3	2.3	2.300	-	**2.3 PJ**	4.1 U	34 U	21 U
Endrin aldehyde	ug/kg	7	2	6.6	6.6	6.600	-	**6.6**	**6.6 P**	24 U	14 U
gamma-Chlordane	ug/kg	7	1	0.96	0.96	0.960	-	2.1 U	**0.96 PJ**	22 U	14 U
Heptachlor epoxide	ug/kg	7	1	0.49	0.49	0.490	-	2.1 U	**0.49 PJ**	26 U	16 U
Methoxychlor	ug/kg	7	1	1.8	1.8	1.800	-	**1.8 PJ**	21 U	120 UJ	72 UJ
Dioxin/Furans											
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	5	5	41	6200	1300.800	-	-	-	**120**	**53 J**
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	5	1	57	57	57.000	-	-	-	**57**	2.3 U
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	5	5	7.3	62	27.180	-	-	-	**48**	**7.3**
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	5	1	1.8	1.8	1.800	-	-	-	0.63 U	0.31 U
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	5	3	1.2	7.5	4.533	-	-	-	**7.5 J**	0.22 U
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	5	2	0.81	11	5.905	-	-	-	**11**	0.055 U
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	5	3	1.8	5.6	3.333	-	-	-	**5.6 J**	0.23 U
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	5	3	0.99	17	6.630	-	-	-	**17 J**	0.061 U

Table 15

Summary of Detections
Soil/Fill Samples - EU18
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:							**S2(EPA)**	**S03(OEPA)**	**S03(OEPA)**	**SS-26**	**SS-27**
Sample ID:							**S2**	**96-DV-03-S03**	**96-DV-03-D03**	**SS-38443-102618-JC-026**	**SS-38443-102618-JC-027**
Sample Date:							**10/23/1990**	**7/9/1996**	**7/9/1996**	**10/26/2018**	**10/26/2018**
Sample Depth:							**0-1 ft BGS**	**1.5-2 ft BGS**	**1.5-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
									Duplicate		
Parameters	**Units**	**Samples**	**Detects**	**Min Detect**	**Max Detect**	**Average (Detects)**					
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	5	3	0.98	18	7.193	-	-	-	**18 J**	0.053 U
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	5	1	3.1	3.1	3.100	-	-	-	**3.1 J**	0.12 U
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	5	1	10	10	10.000	-	-	-	**10 J**	0.15 U
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	5	2	1.9	4.2	3.050	-	-	-	**4.2 J**	0.22 U
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	5	3	1.3	3.9	2.700	-	-	-	**3.9 J**	0.11 U
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	5	3	1	1.8	1.367	-	-	-	**1.8**	0.29 U
Total heptachlorodibenzofuran (HpCDF)	pg/g	5	5	4	94	27.520	-	-	-	**94 J**	**4.0 J**
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	5	5	13	130	52.200	-	-	-	**82 J**	**13 J**
Total hexachlorodibenzofuran (HxCDF)	pg/g	5	5	1.4	47	16.120	-	-	-	**47 J**	**1.4 J**
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	5	4	2.9	94	31.375	-	-	-	**94 J**	**2.9 J**
Total pentachlorodibenzofuran (PeCDF)	pg/g	5	4	8	43	22.250	-	-	-	**43 J**	0.12 U
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	5	4	0.53	58	15.908	-	-	-	**58 J**	**0.53 J**
Total tetrachlorodibenzofuran (TCDF)	pg/g	5	4	5.4	130	46.350	-	-	-	**130 J**	0.29 U
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	5	2	2.1	10	6.050	-	-	-	**10 J**	0.39 U
Asbestos											
Chrysotile asbestos	%	1	1	0.25	0.25	0.250	-	-	-	-	-
General Chemistry											
Cyanide (total)	mg/kg	7	3	0.31	0.94	0.597	-	0.19 U	0.22 U	**0.54 J**	0.23 U
Soot carbon	mg/kg	5	5	1300	67000	33840.000	-	-	-	**67000**	**1300**
Total organic carbon (TOC)	mg/kg	5	5	5200	32000	20820.000	-	-	-	**32000**	**6900**

Notes
< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
E - Estimated because of the presence of interference (Inorganics).
J - Estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Table 15

Summary of Detections
Soil/Fill Samples - EU18
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-28**	**SS-33**	**SS-34**	**SS-105**	**SS-179-AS**	**SS-180-AS**
Sample ID:		**SS-38443-102618-JC-028**	**SS-38443-102618-JC-033**	**SS-38443-102618-JC-034**	**SS-38443-102618-JC-105**	**SS-38443-102618-JC-179**	**SS-38443-102618-JC-180**
Sample Date:		**10/26/2018**	**10/26/2018**	**10/26/2018**	**10/26/2018**	**10/26/2018**	**10/26/2018**
Sample Depth:		**0-2 ft BGS**	**0.17-2.17 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-0.5 ft BGS**	**0.17-0.67 ft BGS**
Parameters	**Units**						
Volatiles							
1,3-Dichlorobenzene	ug/kg	0.87 U	R	R	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	**5.2 J**	**7.5 J**	**37 J**	-	-	-
Acetone	ug/kg	22 U	39 U	53 UJ	-	-	-
Methylene chloride	ug/kg	13 U	22 U	30 UJ	-	-	-
Tetrachloroethene	ug/kg	0.78 U	R	R	-	-	-
Toluene	ug/kg	0.82 U	R	R	-	-	-
Trichloroethene	ug/kg	0.67 U	1.2 U	1.6 UJ	-	-	-
Semi-Volatiles							
2-Methylnaphthalene	ug/kg	**19**	**850**	**650 J**	-	-	-
3&4-Methylphenol	ug/kg	36 U	430 U	59 UJ	-	-	-
Acenaphthene	ug/kg	3.6 U	**520**	**38 J**	-	-	-
Acenaphthylene	ug/kg	5.0 U	**1100**	8.2 UJ	-	-	-
Acetophenone	ug/kg	14 U	160 U	**62 J**	-	-	-
Anthracene	ug/kg	**4.9 J**	**2100**	**63 J**	-	-	-
Benzaldehyde	ug/kg	29 U	340 U	**92 J**	-	-	-
Benzo(a)anthracene	ug/kg	**11 J**	**6900**	**260 J**	-	-	-
Benzo(a)pyrene	ug/kg	**14 J**	**6000**	**220 J**	-	-	-
Benzo(b)fluoranthene	ug/kg	**18 J**	**8500**	**330 J**	-	-	-
Benzo(g,h,i)perylene	ug/kg	**10 J**	**3900**	**220 J**	-	-	-
Benzo(k)fluoranthene	ug/kg	8.6 U	**2900**	**110 J**	-	-	-
Biphenyl (1,1-Biphenyl)	ug/kg	21 U	250 U	**74 J**	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	**92**	760 U	**240 J**	-	-	-
Butyl benzylphthalate (BBP)	ug/kg	27 U	330 U	45 UJ	-	-	-
Carbazole	ug/kg	24 U	**870**	**52 J**	-	-	-
Chrysene	ug/kg	**14 J**	**6700**	**290 J**	-	-	-
Dibenz(a,h)anthracene	ug/kg	8.6 U	**1200**	**58 J**	-	-	-
Dibenzofuran	ug/kg	16 U	**530 J**	**170 J**	-	-	-
Di-n-butylphthalate (DBP)	ug/kg	27 U	330 U	45 UJ	-	-	-
Fluoranthene	ug/kg	**16 J**	**15000**	**500 J**	-	-	-
Fluorene	ug/kg	3.4 U	**860**	**37 J**	-	-	-
Indeno(1,2,3-cd)pyrene	ug/kg	9.2 U	**3800**	**160 J**	-	-	-
Naphthalene	ug/kg	**25**	**700**	**420 J**	-	-	-
Phenanthrene	ug/kg	**22**	**7900**	**590 J**	-	-	-
Phenol	ug/kg	10 U	120 U	**46 J**	-	-	-
Pyrene	ug/kg	**22**	**12000**	**440 J**	-	-	-
Metals							
Aluminum	mg/kg	**1500**	**6600**	**7600 J**	-	-	-
Antimony	mg/kg	**0.21 J**	**3.4 J**	**1.4 J**	-	-	-
Arsenic	mg/kg	**3.0**	**17**	**28 J**	-	-	-
Barium	mg/kg	**9.2**	**220**	**220 J**	-	-	-
Beryllium	mg/kg	**0.061 J**	**2.0**	**2.2 J**	-	-	-
Cadmium	mg/kg	**1.2**	**1.1**	**0.68 J**	-	-	-

Table 15

Summary of Detections
Soil/Fill Samples - EU18
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-28**	**SS-33**	**SS-34**	**SS-105**	**SS-179-AS**	**SS-180-AS**
Sample ID:		**SS-38443-102618-JC-028**	**SS-38443-102618-JC-033**	**SS-38443-102618-JC-034**	**SS-38443-102618-JC-105**	**SS-38443-102618-JC-179**	**SS-38443-102618-JC-180**
Sample Date:		**10/26/2018**	**10/26/2018**	**10/26/2018**	**10/26/2018**	**10/26/2018**	**10/26/2018**
Sample Depth:		**0-2 ft BGS**	**0.17-2.17 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-0.5 ft BGS**	**0.17-0.67 ft BGS**
Parameters	**Units**						
Calcium	mg/kg	**6600**	**45000**	**14000 J**	-	-	-
Chromium	mg/kg	**31**	**17**	**52 J**	-	-	-
Chromium III (trivalent)	mg/kg	**31**	**17**	**52 J**	-	-	-
Chromium VI (hexavalent)	mg/kg	0.30 U	0.36 U	2.5 UJ	-	-	-
Cobalt	mg/kg	**2.1**	**8.9**	**9.7 J**	-	-	-
Copper	mg/kg	**34**	**210**	**81 J**	-	-	-
Iron	mg/kg	**27000**	**13000**	**17000 J**	-	-	-
Lead	mg/kg	**26**	**170**	**110 J**	-	-	-
Lead - coarse fraction	mg/kg	**48**	**200**	-	-	-	-
Lead - fine fraction	mg/kg	**260**	**290**	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	**84**	**220**	-	-	-	-
Magnesium	mg/kg	**500**	**18000**	**6000 J**	-	-	-
Manganese	mg/kg	**1400**	**200**	**130 J**	-	-	-
Mercury	mg/kg	0.024 U	**0.32**	**0.40 J**	-	-	-
Nickel	mg/kg	**22**	**30**	**42 J**	-	-	-
Potassium	mg/kg	**110 J**	**1200**	**1500 J**	-	-	-
Selenium	mg/kg	**0.36 J**	**3.1**	**3.8 J**	-	-	-
Silver	mg/kg	**0.11 J**	**0.35**	**0.17 J**	-	-	-
Sodium	mg/kg	**91 J**	**240 J**	**390 J**	-	-	-
Thallium	mg/kg	0.054 U	**0.89**	**1.0 J**	-	-	-
Vanadium	mg/kg	**2.0**	**27**	**29 J**	-	-	-
Zinc	mg/kg	**66**	**220**	**160 J**	-	-	-
PCBs							
Aroclor-1248 (PCB-1248)	ug/kg	30 U	35 U	49 UJ	-	-	-
Aroclor-1254 (PCB-1254)	ug/kg	28 U	**130**	**240 J**	-	-	-
Aroclor-1260 (PCB-1260)	ug/kg	27 U	32 U	45 UJ	-	-	-
Pesticides							
Endosulfan II	ug/kg	1.8 U	110 U	**4.0 J**	-	-	-
Endrin	ug/kg	2.3 U	140 U	3.9 UJ	-	-	-
Endrin aldehyde	ug/kg	81 U	96 U	54 UJ	-	-	-
gamma-Chlordane	ug/kg	1.5 U	90 U	2.5 UJ	-	-	-
Heptachlor epoxide	ug/kg	1.8 U	110 U	3.0 UJ	-	-	-
Methoxychlor	ug/kg	8.1 UJ	480 U	13 UJ	-	-	-
Dioxin/Furans							
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	**41 J**	**6200 J**	**90 J**	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	8.3 U	7.8 U	9.6 UJ	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	**7.6**	**62**	**11 J**	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	**1.8 J**	0.32 U	1.6 UJ	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	**4.9 J**	**1.2 J**	0.93 UJ	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	0.13 U	**0.81 J**	1.8 UJ	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	**1.8 J**	**2.6 J**	0.83 UJ	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	**0.99 J**	**1.9 J**	1.8 UJ	-	-	-

Table 15

Summary of Detections
Soil/Fill Samples - EU18
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-28**	**SS-33**	**SS-34**	**SS-105**	**SS-179-AS**	**SS-180-AS**
Sample ID:		**SS-38443-102618-JC-028**	**SS-38443-102618-JC-033**	**SS-38443-102618-JC-034**	**SS-38443-102618-JC-105**	**SS-38443-102618-JC-179**	**SS-38443-102618-JC-180**
Sample Date:		**10/26/2018**	**10/26/2018**	**10/26/2018**	**10/26/2018**	**10/26/2018**	**10/26/2018**
Sample Depth:		**0-2 ft BGS**	**0.17-2.17 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-0.5 ft BGS**	**0.17-0.67 ft BGS**
Parameters	**Units**						
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	**0.98 J**	**2.6 J**	1.6 UJ	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	0.26 U	0.14 U	0.36 UJ	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	0.12 U	0.18 U	0.92 UJ	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	**1.9 J**	0.21 U	1.0 UJ	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	**2.9 J**	0.14 U	**1.3 J**	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	**1.3**	**1.0 J**	0.95 UJ	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	**15 J**	**15 J**	**9.6 J**	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	**14 J**	**130 J**	**22 J**	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	**14 J**	**14 J**	**4.2 J**	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	**6.6 J**	**22 J**	1.8 UJ	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	**20 J**	**18 J**	**8.0 J**	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	**1.4 J**	**3.7 J**	0.92 UJ	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	**17 J**	**33 J**	**5.4 J**	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	0.42 U	**2.1 J**	1.0 UJ	-	-	-
Asbestos							
Chrysotile asbestos	%	-	-	-	-	-	0.25 <
General Chemistry							
Cyanide (total)	mg/kg	0.24 U	**0.31 J**	**0.94 J**	-	-	-
Soot carbon	mg/kg	**1900**	**50000**	**49000 J**	-	-	-
Total organic carbon (TOC)	mg/kg	**5200**	**31000**	**29000 J**	-	-	-

Notes
< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
E - Estimated because of the presence of interference (Inorganics).
J - Estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:							**BH75-13**	**BH75-13**	**BH76-13**	**BH76-13**
Sample ID:							**S-38443-062513-JT-045**	**S-38443-062513-JT-046**	**S-38443-062513-JC-052**	**S-38443-062513-JC-053**
Sample Date:							**6/25/2013**	**6/25/2013**	**6/25/2013**	**6/25/2013**
Sample Depth:							**0-2 ft BGS**	**20-22 ft BGS**	**8-10 ft BGS**	**18-20 ft BGS**
Parameters	**Units**	**Samples**	**Detects**	**Min Detect**	**Max Detect**	**Average (Detects)**				
Volatiles										
1,1,1-Trichloroethane	ug/kg	78	10	0.71	1500	162.041	970 U	4.5 U	260 U	11 U
1,1,2-Trichloroethane	ug/kg	73	1	45	45	45.000	970 U	4.5 U	260 U	11 U
1,1-Dichloroethane	ug/kg	77	13	0.77	720	196.205	**560 J**	4.5 U	260 U	**1.3 J**
1,1-Dichloroethene	ug/kg	77	1	79	79	79.000	970 U	4.5 U	260 U	11 U
1,2,4-Trichlorobenzene	ug/kg	64	4	0.98	130	68.745	970 U	4.5 U	260 U	11 UJ
1,2-Dichlorobenzene	ug/kg	65	3	6.9	250	152.300	970 U	4.5 U	260 U	11 UJ
1,2-Dichloroethene (total)	ug/kg	16	1	200	200	200.000	-	-	-	-
1,3-Dichlorobenzene	ug/kg	67	5	0.89	180	41.918	970 U	4.5 U	260 U	11 UJ
1,4-Dichlorobenzene	ug/kg	66	8	0.87	12000	2261.359	970 U	4.5 U	260 U	11 UJ
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	86	23	1	1900	204.604	3900 U	**3.8 J**	1000 U	45 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	84	10	0.52	940	167.342	3900 U	**1.0 J**	**100 J**	45 U
Acetone	ug/kg	86	7	9.3	880	148.471	6300 U	26 UJ	1400 U	61 UJ
Benzene	ug/kg	77	13	0.36	320	51.915	**200 J**	**0.78 J**	260 U	11 U
Carbon disulfide	ug/kg	79	14	0.41	150	15.289	970 U	4.5 U	260 U	11 U
Carbon tetrachloride	ug/kg	77	1	2.7	2.7	2.700	970 U	4.5 U	260 U	11 U
Chlorobenzene	ug/kg	74	20	0.66	560000	29193.368	**630 J**	**2.7 J**	260 U	11 U
Chloroethane	ug/kg	77	4	1.4	63	21.425	970 UJ	4.5 UJ	260 UJ	**63 J**
cis-1,2-Dichloroethene	ug/kg	70	4	0.88	1100	309.720	970 U	4.5 U	260 U	11 U
Cyclohexane	ug/kg	70	11	0.31	160	39.087	1900 U	**0.38 J**	520 U	23 U
Ethylbenzene	ug/kg	74	19	0.34	350000	18672.954	**1400**	**0.34 J**	**38 J**	11 U
Isopropyl benzene	ug/kg	66	16	0.27	1800	361.370	**790 J**	4.5 U	**18 J**	11 U
Methyl acetate	ug/kg	70	17	2.1	2400	320.524	**110 J**	9.0 U	**68 J**	23 U
Methyl cyclohexane	ug/kg	70	21	0.35	970	142.665	**530 J**	**1.3 J**	520 U	23 U
Methyl tert butyl ether (MTBE)	ug/kg	70	1	2	2	2.000	970 U	4.5 U	260 U	**2.0 J**
Methylene chloride	ug/kg	78	9	1.5	110	29.500	3100 U	**14 J**	870 U	**33 J**
Styrene	ug/kg	73	2	0.9	16	8.450	970 U	4.5 U	260 U	11 U
Tetrachloroethene	ug/kg	84	18	0.96	1100	141.587	970 U	4.5 U	260 U	11 U
Toluene	ug/kg	86	36	0.41	1600	174.858	**1500**	**0.67 J**	**31 J**	11 U
trans-1,2-Dichloroethene	ug/kg	70	1	83	83	83.000	970 U	4.5 U	260 U	11 U
Trichloroethene	ug/kg	87	9	0.81	8400	965.923	**130 J**	4.5 U	260 U	11 U
Trichlorofluoromethane (CFC-11)	ug/kg	70	1	79	79	79.000	970 U	4.5 U	260 U	11 U
Trifluorotrichloroethane (CFC-113)	ug/kg	69	1	21	21	21.000	970 U	4.5 U	260 U	11 U
Vinyl chloride	ug/kg	77	3	18	59	39.333	970 U	4.5 U	260 U	11 U
Xylenes (total)	ug/kg	82	24	0.89	3000000	126384.362	**8100**	9.0 U	**130 J**	23 U
Semi-Volatiles										
2,4-Dimethylphenol	ug/kg	55	2	33	100	66.500	-	-	-	-
2-Chlorophenol	ug/kg	55	1	50	50	50.000	-	-	-	-
2-Methylnaphthalene	ug/kg	63	51	4.1	29000	1218.149	-	-	-	-
2-Methylphenol	ug/kg	55	3	15	42	25.667	-	-	-	-
3&4-Methylphenol	ug/kg	33	5	28	490	185.400	-	-	-	-
Acenaphthene	ug/kg	63	28	5.8	120000	4441.161	-	-	-	-
Acenaphthylene	ug/kg	54	25	7.7	3100	189.668	-	-	-	-
Acetophenone	ug/kg	47	15	19	3900	461.133	-	-	-	-

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:							**BH75-13**	**BH75-13**	**BH76-13**	**BH76-13**
Sample ID:							**S-38443-062513-JT-045**	**S-38443-062513-JT-046**	**S-38443-062513-JC-052**	**S-38443-062513-JC-053**
Sample Date:							**6/25/2013**	**6/25/2013**	**6/25/2013**	**6/25/2013**
Sample Depth:							**0-2 ft BGS**	**20-22 ft BGS**	**8-10 ft BGS**	**18-20 ft BGS**
Parameters	**Units**	**Samples**	**Detects**	**Min Detect**	**Max Detect**	**Average (Detects)**				
Anthracene	ug/kg	63	44	4.6	200000	4817.095	-	-	-	-
Benzaldehyde	ug/kg	47	13	16	420	137.462	-	-	-	-
Benzo(a)anthracene	ug/kg	63	48	16	390000	8810.917	-	-	-	-
Benzo(a)pyrene	ug/kg	63	46	13	340000	7946.609	-	-	-	-
Benzo(b)fluoranthene	ug/kg	63	49	21	460000	10242.796	-	-	-	-
Benzo(g,h,i)perylene	ug/kg	63	43	11	210000	5343.023	-	-	-	-
Benzo(k)fluoranthene	ug/kg	63	40	12	170000	4748.725	-	-	-	-
Biphenyl (1,1-Biphenyl)	ug/kg	47	23	13	11000	626.522	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	64	35	24	560000	16888.714	-	-	-	-
Butyl benzylphthalate (BBP)	ug/kg	63	12	25	45000	5736.917	-	-	-	-
Carbazole	ug/kg	54	9	22	140000	15670.667	-	-	-	-
Chrysene	ug/kg	63	51	11	350000	7496.451	-	-	-	-
Dibenz(a,h)anthracene	ug/kg	63	24	12	66000	2986.833	-	-	-	-
Dibenzofuran	ug/kg	63	34	10	71000	2334.441	-	-	-	-
Diethyl phthalate	ug/kg	54	5	43	9700	2101.600	-	-	-	-
Dimethyl phthalate	ug/kg	54	1	2000	2000	2000.000	-	-	-	-
Di-n-butylphthalate (DBP)	ug/kg	63	17	18	1500	232.294	-	-	-	-
Di-n-octyl phthalate (DnOP)	ug/kg	54	1	23	23	23.000	-	-	-	-
Fluoranthene	ug/kg	63	58	15	840000	15718.672	-	-	-	-
Fluorene	ug/kg	63	34	4.8	150000	4781.268	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/kg	63	42	8.1	190000	4974.360	-	-	-	-
Naphthalene	ug/kg	63	49	6.4	110000	2724.245	-	-	-	-
N-Nitrosodiphenylamine	ug/kg	63	1	450	450	450.000	-	-	-	-
Phenanthrene	ug/kg	63	55	14	690000	13834.491	-	-	-	-
Phenol	ug/kg	55	8	25	1400	311.250	-	-	-	-
Pyrene	ug/kg	63	58	15	670000	12492.345	-	-	-	-
Metals										
Aluminum	mg/kg	64	64	1050	16000	5766.406	-	-	-	-
Antimony	mg/kg	64	45	0.18	120	14.692	-	-	-	-
Arsenic	mg/kg	64	64	2.4	77.2	17.872	-	-	-	-
Barium	mg/kg	64	64	15	2300	353.844	-	-	-	-
Beryllium	mg/kg	64	64	0.088	5.8	1.254	-	-	-	-
Cadmium	mg/kg	64	59	0.069	54	5.841	-	-	-	-
Calcium	mg/kg	64	64	970	120000	31542.656	-	-	-	-
Chromium	mg/kg	70	70	2.5	380	49.963	-	-	-	-
Chromium III (trivalent)	mg/kg	17	17	6.2	300	69.976	-	-	-	-
Chromium VI (hexavalent)	mg/kg	17	3	5	16	9.033	-	-	-	-
Cobalt	mg/kg	64	64	2.4	240	12.677	-	-	-	-
Copper	mg/kg	64	64	7.9	191000	3636.009	-	-	-	-
Iron	mg/kg	64	64	1860	210000	29272.031	-	-	-	-
Lead	mg/kg	64	64	3.7	13000	984.348	-	-	-	-
Lead - coarse fraction	mg/kg	3	3	59	6400	2233.000	-	-	-	-
Lead - fine fraction	mg/kg	3	3	120	4200	1560.000	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	3	3	70	5900	2076.667	-	-	-	-

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:							**BH75-13**	**BH75-13**	**BH76-13**	**BH76-13**
Sample ID:							**S-38443-062513-JT-045**	**S-38443-062513-JT-046**	**S-38443-062513-JC-052**	**S-38443-062513-JC-053**
Sample Date:							**6/25/2013**	**6/25/2013**	**6/25/2013**	**6/25/2013**
Sample Depth:							**0-2 ft BGS**	**20-22 ft BGS**	**8-10 ft BGS**	**18-20 ft BGS**
Parameters	**Units**	**Samples**	**Detects**	**Min Detect**	**Max Detect**	**Average (Detects)**				
Magnesium	mg/kg	64	64	294	45000	12160.172	-	-	-	-
Manganese	mg/kg	64	64	6.9	2200	389.348	-	-	-	-
Mercury	mg/kg	64	47	0.023	1.5	0.201	-	-	-	-
Nickel	mg/kg	64	64	4.5	420	65.553	-	-	-	-
Potassium	mg/kg	64	63	160	2600	785.032	-	-	-	-
Selenium	mg/kg	64	49	0.22	14	3.346	-	-	-	-
Silver	mg/kg	64	39	0.024	7.6	1.168	-	-	-	-
Sodium	mg/kg	64	41	43.7	3000	390.134	-	-	-	-
Thallium	mg/kg	64	50	0.091	4.5	0.658	-	-	-	-
Vanadium	mg/kg	64	64	4.5	170	28.277	-	-	-	-
Zinc	mg/kg	64	64	7.7	14000	987.480	-	-	-	-
PCBs										
Aroclor-1242 (PCB-1242)	ug/kg	55	8	51	930000	117187.625	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/kg	64	6	360	2700	1381.667	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/kg	55	28	19	450000	17932.571	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/kg	64	15	23	1400	424.067	-	-	-	-
Pesticides										
4,4'-DDD	ug/kg	55	3	4.4	28	13.067	-	-	-	-
4,4'-DDE	ug/kg	55	13	2.6	69	19.608	-	-	-	-
4,4'-DDT	ug/kg	55	5	0.6	23	9.360	-	-	-	-
alpha-Chlordane	ug/kg	55	1	5.4	5.4	5.400	-	-	-	-
Dieldrin	ug/kg	55	2	24	560	292.000	-	-	-	-
Endosulfan I	ug/kg	55	1	1.5	1.5	1.500	-	-	-	-
Endosulfan II	ug/kg	55	1	22	22	22.000	-	-	-	-
Endosulfan sulfate	ug/kg	55	1	1.7	1.7	1.700	-	-	-	-
Endrin	ug/kg	55	5	1.4	140	55.080	-	-	-	-
Endrin aldehyde	ug/kg	55	4	2.2	110	41.800	-	-	-	-
Endrin ketone	ug/kg	55	1	7.5	7.5	7.500	-	-	-	-
gamma-BHC (lindane)	ug/kg	55	3	0.42	3400	1133.730	-	-	-	-
gamma-Chlordane	ug/kg	55	5	0.35	43	17.190	-	-	-	-
Heptachlor epoxide	ug/kg	55	2	0.78	34	17.390	-	-	-	-
Methoxychlor	ug/kg	55	7	2.1	19	7.343	-	-	-	-
Dioxin/Furans										
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	17	12	4.9	2300	273.242	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	17	17	28	9400	1419.824	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	17	15	4.7	1800	207.700	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	17	17	4.8	1600	229.188	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	17	11	0.49	240	30.248	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	17	15	1.3	960	118.300	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	17	9	0.18	22	3.143	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	17	14	0.83	330	41.888	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	17	16	0.78	110	23.368	-	-	-	-

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:							**BH75-13**	**BH75-13**	**BH76-13**	**BH76-13**
Sample ID:							**S-38443-062513-JT-045**	**S-38443-062513-JT-046**	**S-38443-062513-JC-052**	**S-38443-062513-JC-053**
Sample Date:							**6/25/2013**	**6/25/2013**	**6/25/2013**	**6/25/2013**
Sample Depth:							**0-2 ft BGS**	**20-22 ft BGS**	**8-10 ft BGS**	**18-20 ft BGS**
Parameters	**Units**	**Samples**	**Detects**	**Min Detect**	**Max Detect**	**Average (Detects)**				
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	17	1	0.21	0.21	0.210	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	17	14	0.88	150	32.264	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	17	16	0.28	210	31.672	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	17	13	0.41	110	16.105	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	17	14	0.64	330	38.594	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	17	17	0.69	440	55.764	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	17	17	0.61	710	67.452	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	17	12	0.14	21	3.709	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	17	17	8.1	2700	303.065	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	17	17	9.5	3600	477.206	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	17	17	9.5	3200	383.676	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	17	17	8.8	1600	286.394	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	17	17	10	4800	596.941	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	17	17	16	270000	17310.588	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	17	17	16	8300	1151.412	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	17	17	1.5	1400	144.824	-	-	-	-
Asbestos										
Chrysotile asbestos	%	17	17	0.25	8	0.985	-	-	-	-
Geotechnical										
Coarse sand	%	5	5	2.8	18.3	7.920	-	-	-	-
Fine sand	%	5	5	10.5	56.9	31.240	-	-	-	-
Fines	%	5	5	9.9	50.3	24.940	-	-	-	-
Gravel	%	5	5	5.6	34.5	20.720	-	-	-	-
Medium sand	%	5	5	10.1	20.5	15.180	-	-	-	-
Sand	%	5	5	25.6	82.4	54.340	-	-	-	-
Sieve, #4	% passed	5	5	65.5	94.4	79.280	-	-	-	-
Sieve, #10	% passed	5	5	58	89.4	71.360	-	-	-	-
Sieve, #20	% passed	5	5	49.2	87	66.140	-	-	-	-
Sieve, #40	% passed	5	5	39.9	68.9	56.180	-	-	-	-
Sieve, #60	% passed	5	5	30.1	57	41.360	-	-	-	-
Sieve, #80	% passed	5	5	19.2	54.8	34.680	-	-	-	-
Sieve, #100	% passed	5	5	15.5	53.6	31.620	-	-	-	-
Sieve, #200	% passed	5	5	9.9	50.3	24.940	-	-	-	-
Sieve, 0.375 inch	% passed	5	5	69.4	97.6	85.840	-	-	-	-
Sieve, 0.75 inch	% passed	5	5	73.5	100	94.700	-	-	-	-
Sieve, 1 inch	% passed	5	5	84.6	100	96.920	-	-	-	-
Sieve, 1.5 inch	% passed	5	5	100	100	100.000	-	-	-	-
Sieve, 2 inch	% passed	5	5	100	100	100.000	-	-	-	-
Sieve, 3 inch	% passed	5	5	100	100	100.000	-	-	-	-
General Chemistry										
Cyanide (total)	mg/kg	55	20	0.084	120	7.393	-	-	-	-
Fraction organic carbon (FOC)	%	5	5	0.7	10.5	4.660	-	-	-	-

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:							**BH75-13**	**BH75-13**	**BH76-13**	**BH76-13**
Sample ID:							**S-38443-062513-JT-045**	**S-38443-062513-JT-046**	**S-38443-062513-JC-052**	**S-38443-062513-JC-053**
Sample Date:							**6/25/2013**	**6/25/2013**	**6/25/2013**	**6/25/2013**
Sample Depth:							**0-2 ft BGS**	**20-22 ft BGS**	**8-10 ft BGS**	**18-20 ft BGS**
Parameters	**Units**	**Samples**	**Detects**	**Min Detect**	**Max Detect**	**Average (Detects)**				
Total solids	%	15	15	59.7	91.5	82.827	-	-	-	-

Notes
< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
D - Compounds at secondary dilution factor.
E - Estimated because of the presence of interference (Inorganics).
E - Exceed calibration range of GC/MS instrument (Organics).
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%. The
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH77-13**	**BH79-13**	**BH79-13**	**BH82-13**	**BH85-13**	**BH85-13**	**BH86-13**
Sample ID:		**S-38443-062513-JT-047**	**S-38443-062613-JC-056**	**S-38443-062613-JC-057**	**S-38443-062413-JC-039**	**S-38443-062513-JC-040**	**S-38443-062513-JC-051**	**S-38443-062413-JC-038**
Sample Date:		**6/25/2013**	**6/26/2013**	**6/26/2013**	**6/24/2013**	**6/25/2013**	**6/25/2013**	**6/24/2013**
Sample Depth:		**20-22 ft BGS**	**4-6 ft BGS**	**21-23 ft BGS**	**19-21 ft BGS**	**8-10 ft BGS**	**18-20 ft BGS**	**22.5-24.5 ft BGS**
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/kg	290 U	280 U	4.3 U	14 UJ	460 U	4.6 U	5.1 U
1,1,2-Trichloroethane	ug/kg	290 U	280 U	4.3 U	R	460 U	4.6 U	5.1 U
1,1-Dichloroethane	ug/kg	290 U	280 U	4.3 U	14 UJ	460 U	4.6 U	5.1 U
1,1-Dichloroethene	ug/kg	290 U	280 U	4.3 U	14 UJ	460 U	4.6 U	5.1 U
1,2,4-Trichlorobenzene	ug/kg	**130 J**	280 U	R	R	460 U	4.6 U	5.1 U
1,2-Dichlorobenzene	ug/kg	290 U	280 U	**6.9 J**	R	460 U	4.6 U	5.1 U
1,2-Dichloroethene (total)	ug/kg	-	-	-	-	-	-	-
1,3-Dichlorobenzene	ug/kg	**180 J**	**23 J**	**1.7 J**	**4.0 J**	460 U	4.6 U	5.1 U
1,4-Dichlorobenzene	ug/kg	**2900**	280 U	**18 J**	R	460 U	4.6 U	5.1 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	1200 U	1100 U	**3.7 J**	**19 J**	1800 U	19 U	**12 J**
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	1200 U	1100 U	17 U	**56 J**	1800 U	19 U	20 U
Acetone	ug/kg	1900 U	1100 U	27 U	210 UJ	2200 U	23 U	88 U
Benzene	ug/kg	**320**	280 U	4.3 U	14 UJ	460 U	4.6 U	5.1 U
Carbon disulfide	ug/kg	290 U	**18 J**	**1.4 J**	**2.9 J**	460 U	4.6 U	**3.2 J**
Carbon tetrachloride	ug/kg	290 U	280 U	4.3 U	14 UJ	460 U	4.6 U	5.1 U
Chlorobenzene	ug/kg	**1400**	280 U	**56**	R	460 U	4.6 U	5.1 U
Chloroethane	ug/kg	290 UJ	280 UJ	4.3 U	14 UJ	460 UJ	4.6 UJ	5.1 UJ
cis-1,2-Dichloroethene	ug/kg	290 U	280 U	4.3 U	14 UJ	460 U	4.6 U	5.1 U
Cyclohexane	ug/kg	580 U	560 U	**1.5 J**	27 UJ	910 U	9.3 U	10 U
Ethylbenzene	ug/kg	**54 J**	**93 J**	**0.69 J**	R	**29 J**	4.6 U	5.1 U
Isopropyl benzene	ug/kg	**1000**	**88 J**	**0.71 J**	R	**210 J**	4.6 U	**0.27 J**
Methyl acetate	ug/kg	**230 J**	**190 J**	8.7 U	27 UJ	910 U	9.3 U	10 U
Methyl cyclohexane	ug/kg	**970**	**75 J**	**2.8 J**	**1.5 J**	910 U	**0.42 J**	10 U
Methyl tert butyl ether (MTBE)	ug/kg	290 U	280 U	4.3 U	14 UJ	460 U	4.6 U	5.1 U
Methylene chloride	ug/kg	960 U	310 U	9.3 U	160 UJ	1300 U	9.6 U	19 U
Styrene	ug/kg	290 U	280 U	4.3 U	R	460 U	4.6 U	5.1 U
Tetrachloroethene	ug/kg	290 U	280 U	**1.2 J**	R	460 U	4.6 U	5.1 U
Toluene	ug/kg	**76 J**	**100 J**	**1.8 J**	R	**74 J**	4.6 U	5.1 U
trans-1,2-Dichloroethene	ug/kg	290 U	280 U	4.3 U	14 UJ	460 U	4.6 U	5.1 U
Trichloroethene	ug/kg	290 U	280 U	4.3 U	14 UJ	460 U	4.6 U	5.1 U
Trichlorofluoromethane (CFC-11)	ug/kg	290 U	280 U	4.3 U	14 UJ	460 U	4.6 U	5.1 U
Trifluorotrichloroethane (CFC-113)	ug/kg	290 U	280 U	4.3 U	14 UJ	460 U	4.6 U	5.1 U
Vinyl chloride	ug/kg	290 U	280 U	4.3 U	**59 J**	460 U	4.6 U	5.1 U
Xylenes (total)	ug/kg	**280 J**	**200 J**	**1.9 J**	R	**120 J**	9.3 U	10 U
Semi-Volatiles								
2,4-Dimethylphenol	ug/kg	-	-	-	-	-	-	-
2-Chlorophenol	ug/kg	-	-	-	-	-	-	-
2-Methylnaphthalene	ug/kg	-	-	-	-	-	-	-
2-Methylphenol	ug/kg	-	-	-	-	-	-	-
3&4-Methylphenol	ug/kg	-	-	-	-	-	-	-
Acenaphthene	ug/kg	-	-	-	-	-	-	-
Acenaphthylene	ug/kg	-	-	-	-	-	-	-
Acetophenone	ug/kg	-	-	-	-	-	-	-

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH77-13**	**BH79-13**	**BH79-13**	**BH82-13**	**BH85-13**	**BH85-13**	**BH86-13**
Sample ID:		**S-38443-062513-JT-047**	**S-38443-062613-JC-056**	**S-38443-062613-JC-057**	**S-38443-062413-JC-039**	**S-38443-062513-JC-040**	**S-38443-062513-JC-051**	**S-38443-062413-JC-038**
Sample Date:		**6/25/2013**	**6/26/2013**	**6/26/2013**	**6/24/2013**	**6/25/2013**	**6/25/2013**	**6/24/2013**
Sample Depth:		**20-22 ft BGS**	**4-6 ft BGS**	**21-23 ft BGS**	**19-21 ft BGS**	**8-10 ft BGS**	**18-20 ft BGS**	**22.5-24.5 ft BGS**
Parameters	**Units**							
Anthracene	ug/kg	-	-	-	-	-	-	-
Benzaldehyde	ug/kg	-	-	-	-	-	-	-
Benzo(a)anthracene	ug/kg	-	-	-	-	-	-	-
Benzo(a)pyrene	ug/kg	-	-	-	-	-	-	-
Benzo(b)fluoranthene	ug/kg	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	ug/kg	-	-	-	-	-	-	-
Benzo(k)fluoranthene	ug/kg	-	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	ug/kg	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	ug/kg	-	-	-	-	-	-	-
Carbazole	ug/kg	-	-	-	-	-	-	-
Chrysene	ug/kg	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	ug/kg	-	-	-	-	-	-	-
Dibenzofuran	ug/kg	-	-	-	-	-	-	-
Diethyl phthalate	ug/kg	-	-	-	-	-	-	-
Dimethyl phthalate	ug/kg	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	ug/kg	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	ug/kg	-	-	-	-	-	-	-
Fluoranthene	ug/kg	-	-	-	-	-	-	-
Fluorene	ug/kg	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/kg	-	-	-	-	-	-	-
Naphthalene	ug/kg	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	ug/kg	-	-	-	-	-	-	-
Phenanthrene	ug/kg	-	-	-	-	-	-	-
Phenol	ug/kg	-	-	-	-	-	-	-
Pyrene	ug/kg	-	-	-	-	-	-	-
Metals								
Aluminum	mg/kg	-	-	-	-	-	-	-
Antimony	mg/kg	-	-	-	-	-	-	-
Arsenic	mg/kg	-	-	-	-	-	-	-
Barium	mg/kg	-	-	-	-	-	-	-
Beryllium	mg/kg	-	-	-	-	-	-	-
Cadmium	mg/kg	-	-	-	-	-	-	-
Calcium	mg/kg	-	-	-	-	-	-	-
Chromium	mg/kg	-	-	-	-	-	-	-
Chromium III (trivalent)	mg/kg	-	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-	-
Cobalt	mg/kg	-	-	-	-	-	-	-
Copper	mg/kg	-	-	-	-	-	-	-
Iron	mg/kg	-	-	-	-	-	-	-
Lead	mg/kg	-	-	-	-	-	-	-
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH77-13**	**BH79-13**	**BH79-13**	**BH82-13**	**BH85-13**	**BH85-13**	**BH86-13**
Sample ID:		**S-38443-062513-JT-047**	**S-38443-062613-JC-056**	**S-38443-062613-JC-057**	**S-38443-062413-JC-039**	**S-38443-062513-JC-040**	**S-38443-062513-JC-051**	**S-38443-062413-JC-038**
Sample Date:		**6/25/2013**	**6/26/2013**	**6/26/2013**	**6/24/2013**	**6/25/2013**	**6/25/2013**	**6/24/2013**
Sample Depth:		**20-22 ft BGS**	**4-6 ft BGS**	**21-23 ft BGS**	**19-21 ft BGS**	**8-10 ft BGS**	**18-20 ft BGS**	**22.5-24.5 ft BGS**
Parameters	**Units**							
Magnesium	mg/kg	-	-	-	-	-	-	-
Manganese	mg/kg	-	-	-	-	-	-	-
Mercury	mg/kg	-	-	-	-	-	-	-
Nickel	mg/kg	-	-	-	-	-	-	-
Potassium	mg/kg	-	-	-	-	-	-	-
Selenium	mg/kg	-	-	-	-	-	-	-
Silver	mg/kg	-	-	-	-	-	-	-
Sodium	mg/kg	-	-	-	-	-	-	-
Thallium	mg/kg	-	-	-	-	-	-	-
Vanadium	mg/kg	-	-	-	-	-	-	-
Zinc	mg/kg	-	-	-	-	-	-	-
PCBs								
Aroclor-1242 (PCB-1242)	ug/kg	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/kg	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/kg	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/kg	-	-	-	-	-	-	-
Pesticides								
4,4'-DDD	ug/kg	-	-	-	-	-	-	-
4,4'-DDE	ug/kg	-	-	-	-	-	-	-
4,4'-DDT	ug/kg	-	-	-	-	-	-	-
alpha-Chlordane	ug/kg	-	-	-	-	-	-	-
Dieldrin	ug/kg	-	-	-	-	-	-	-
Endosulfan I	ug/kg	-	-	-	-	-	-	-
Endosulfan II	ug/kg	-	-	-	-	-	-	-
Endosulfan sulfate	ug/kg	-	-	-	-	-	-	-
Endrin	ug/kg	-	-	-	-	-	-	-
Endrin aldehyde	ug/kg	-	-	-	-	-	-	-
Endrin ketone	ug/kg	-	-	-	-	-	-	-
gamma-BHC (lindane)	ug/kg	-	-	-	-	-	-	-
gamma-Chlordane	ug/kg	-	-	-	-	-	-	-
Heptachlor epoxide	ug/kg	-	-	-	-	-	-	-
Methoxychlor	ug/kg	-	-	-	-	-	-	-
Dioxin/Furans								
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH77-13**	**BH79-13**	**BH79-13**	**BH82-13**	**BH85-13**	**BH85-13**	**BH86-13**
Sample ID:		**S-38443-062513-JT-047**	**S-38443-062613-JC-056**	**S-38443-062613-JC-057**	**S-38443-062413-JC-039**	**S-38443-062513-JC-040**	**S-38443-062513-JC-051**	**S-38443-062413-JC-038**
Sample Date:		**6/25/2013**	**6/26/2013**	**6/26/2013**	**6/24/2013**	**6/25/2013**	**6/25/2013**	**6/24/2013**
Sample Depth:		**20-22 ft BGS**	**4-6 ft BGS**	**21-23 ft BGS**	**19-21 ft BGS**	**8-10 ft BGS**	**18-20 ft BGS**	**22.5-24.5 ft BGS**
Parameters	**Units**							
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Asbestos								
Chrysotile asbestos	%	-	-	-	-	-	-	-
Geotechnical								
Coarse sand	%	-	-	-	-	-	-	-
Fine sand	%	-	-	-	-	-	-	-
Fines	%	-	-	-	-	-	-	-
Gravel	%	-	-	-	-	-	-	-
Medium sand	%	-	-	-	-	-	-	-
Sand	%	-	-	-	-	-	-	-
Sieve, #4	% passed	-	-	-	-	-	-	-
Sieve, #10	% passed	-	-	-	-	-	-	-
Sieve, #20	% passed	-	-	-	-	-	-	-
Sieve, #40	% passed	-	-	-	-	-	-	-
Sieve, #60	% passed	-	-	-	-	-	-	-
Sieve, #80	% passed	-	-	-	-	-	-	-
Sieve, #100	% passed	-	-	-	-	-	-	-
Sieve, #200	% passed	-	-	-	-	-	-	-
Sieve, 0.375 inch	% passed	-	-	-	-	-	-	-
Sieve, 0.75 inch	% passed	-	-	-	-	-	-	-
Sieve, 1 inch	% passed	-	-	-	-	-	-	-
Sieve, 1.5 inch	% passed	-	-	-	-	-	-	-
Sieve, 2 inch	% passed	-	-	-	-	-	-	-
Sieve, 3 inch	% passed	-	-	-	-	-	-	-
General Chemistry								
Cyanide (total)	mg/kg	-	-	-	-	-	-	-
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH77-13**	**BH79-13**	**BH79-13**	**BH82-13**	**BH85-13**	**BH85-13**	**BH86-13**
Sample ID:		**S-38443-062513-JT-047**	**S-38443-062613-JC-056**	**S-38443-062613-JC-057**	**S-38443-062413-JC-039**	**S-38443-062513-JC-040**	**S-38443-062513-JC-051**	**S-38443-062413-JC-038**
Sample Date:		**6/25/2013**	**6/26/2013**	**6/26/2013**	**6/24/2013**	**6/25/2013**	**6/25/2013**	**6/24/2013**
Sample Depth:		**20-22 ft BGS**	**4-6 ft BGS**	**21-23 ft BGS**	**19-21 ft BGS**	**8-10 ft BGS**	**18-20 ft BGS**	**22.5-24.5 ft BGS**
Parameters	**Units**							
Total solids	%	-	-	-	-	-	-	-

Notes
< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
D - Compounds at secondary dilution factor.
E - Estimated because of the presence of interference (Inorganics).
E - Exceed calibration range of GC/MS instrument (Organics).
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%. The
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH87-13**	**BH87-13**	**BH88-13**	**BH90-13**	**BH91-13**	**BH92-13**	**BH92-13**
Sample ID:		**S-38443-062613-JC-058**	**S-38443-062613-JC-059**	**S-38443-062413-JC-037**	**S-38443-070813-JL-088**	**S-38443-062713-JC-072**	**S-38443-070913-JC-089**	**S-38443-070913-JC-090**
Sample Date:		**6/26/2013**	**6/26/2013**	**6/24/2013**	**7/8/2013**	**6/27/2013**	**7/9/2013**	**7/9/2013**
Sample Depth:		**18-20 ft BGS**	**18-20 ft BGS**	**18-20 ft BGS**	**26.5-28.5 ft BGS**	**23-25 ft BGS**	**18.8-20.8 ft BGS**	**18.8-20.8 ft BGS**
			Duplicate					**Duplicate**
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/kg	430 U	11 UJ	12 U	**1500**	10 U	4.7 U	4.8 U
1,1,2-Trichloroethane	ug/kg	430 U	11 UJ	12 UJ	**45 J**	10 U	4.7 U	4.8 U
1,1-Dichloroethane	ug/kg	430 U	**17 J**	12 U	**720**	10 U	**0.77 J**	**5.6 J**
1,1-Dichloroethene	ug/kg	430 U	11 UJ	12 U	**79 J**	10 U	4.7 U	4.8 U
1,2,4-Trichlorobenzene	ug/kg	430 U	R	R	390 U	10 U	4.7 U	4.8 U
1,2-Dichlorobenzene	ug/kg	430 U	R	R	390 U	10 U	4.7 U	4.8 U
1,2-Dichloroethene (total)	ug/kg	-	-	-	-	-	-	-
1,3-Dichlorobenzene	ug/kg	430 U	R	**0.89 J**	390 U	10 U	4.7 U	4.8 U
1,4-Dichlorobenzene	ug/kg	430 U	R	R	390 U	10 U	4.7 U	4.8 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	1700 U	43 UJ	47 U	1600 U	**3.0 J**	19 U	19 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	1700 U	43 UJ	47 UJ	1600 U	41 U	**0.52 J**	19 U
Acetone	ug/kg	1700 U	43 UJ	92 U	1600 U	41 U	19 U	19 U
Benzene	ug/kg	430 U	11 UJ	12 U	390 U	10 U	**0.69 J**	**0.49 J**
Carbon disulfide	ug/kg	430 U	11 UJ	12 U	**24 J**	10 U	4.7 U	4.8 U
Carbon tetrachloride	ug/kg	430 U	11 UJ	12 U	390 U	10 U	4.7 U	4.8 U
Chlorobenzene	ug/kg	430 U	11 UJ	12 UJ	**750**	10 U	**0.66 J**	**15 J**
Chloroethane	ug/kg	430 U	**19 J**	12 UJ	390 U	10 U	**2.3 J**	**1.4 J**
cis-1,2-Dichloroethene	ug/kg	430 U	11 UJ	12 U	**1100**	10 U	4.7 U	4.8 U
Cyclohexane	ug/kg	870 U	**4.8 J**	24 U	780 U	21 U	**0.37 J**	**0.31 J**
Ethylbenzene	ug/kg	430 U	11 UJ	12 UJ	**310 J**	10 U	4.7 U	4.8 U
Isopropyl benzene	ug/kg	430 U	11 UJ	12 UJ	**57 J**	10 U	4.7 U	4.8 U
Methyl acetate	ug/kg	**56 J**	22 UJ	24 U	**300 J**	21 U	**2.1 J**	**2.8 J**
Methyl cyclohexane	ug/kg	870 U	**4.1 J**	24 U	**130 J**	21 U	**0.39 J**	**0.35 J**
Methyl tert butyl ether (MTBE)	ug/kg	430 U	11 UJ	12 U	390 U	10 U	4.7 U	4.8 U
Methylene chloride	ug/kg	750 U	34 UJ	48 U	390 U	10 UJ	4.7 U	4.8 U
Styrene	ug/kg	430 U	11 UJ	12 UJ	390 U	10 U	4.7 U	4.8 U
Tetrachloroethene	ug/kg	430 U	11 UJ	12 UJ	**34 J**	10 U	4.7 U	4.8 U
Toluene	ug/kg	430 U	11 UJ	12 UJ	**150 J**	10 U	**0.41 J**	**0.69 J**
trans-1,2-Dichloroethene	ug/kg	430 U	11 UJ	12 U	**83 J**	10 U	4.7 U	4.8 U
Trichloroethene	ug/kg	430 U	11 UJ	12 U	**8400 J**	10 U	4.7 U	4.8 U
Trichlorofluoromethane (CFC-11)	ug/kg	430 U	11 UJ	12 U	390 U	10 U	4.7 U	4.8 U
Trifluorotrichloroethane (CFC-113)	ug/kg	430 U	11 UJ	12 U	390 U	10 U	4.7 U	4.8 U
Vinyl chloride	ug/kg	430 U	**18 J**	12 U	**41 J**	10 U	4.7 U	4.8 U
Xylenes (total)	ug/kg	870 U	22 UJ	24 UJ	**1300**	21 U	9.4 U	9.5 U
Semi-Volatiles								
2,4-Dimethylphenol	ug/kg	-	-	-	-	-	-	-
2-Chlorophenol	ug/kg	-	-	-	-	-	-	-
2-Methylnaphthalene	ug/kg	-	-	-	-	-	-	-
2-Methylphenol	ug/kg	-	-	-	-	-	-	-
3&4-Methylphenol	ug/kg	-	-	-	-	-	-	-
Acenaphthene	ug/kg	-	-	-	-	-	-	-
Acenaphthylene	ug/kg	-	-	-	-	-	-	-
Acetophenone	ug/kg	-	-	-	-	-	-	-

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH87-13**	**BH87-13**	**BH88-13**	**BH90-13**	**BH91-13**	**BH92-13**	**BH92-13**
Sample ID:		**S-38443-062613-JC-058**	**S-38443-062613-JC-059**	**S-38443-062413-JC-037**	**S-38443-070813-JL-088**	**S-38443-062713-JC-072**	**S-38443-070913-JC-089**	**S-38443-070913-JC-090**
Sample Date:		**6/26/2013**	**6/26/2013**	**6/24/2013**	**7/8/2013**	**6/27/2013**	**7/9/2013**	**7/9/2013**
Sample Depth:		**18-20 ft BGS**	**18-20 ft BGS**	**18-20 ft BGS**	**26.5-28.5 ft BGS**	**23-25 ft BGS**	**18.8-20.8 ft BGS**	**18.8-20.8 ft BGS**
			Duplicate					**Duplicate**
Parameters	**Units**							
Anthracene	ug/kg	-	-	-	-	-	-	-
Benzaldehyde	ug/kg	-	-	-	-	-	-	-
Benzo(a)anthracene	ug/kg	-	-	-	-	-	-	-
Benzo(a)pyrene	ug/kg	-	-	-	-	-	-	-
Benzo(b)fluoranthene	ug/kg	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	ug/kg	-	-	-	-	-	-	-
Benzo(k)fluoranthene	ug/kg	-	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	ug/kg	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	ug/kg	-	-	-	-	-	-	-
Carbazole	ug/kg	-	-	-	-	-	-	-
Chrysene	ug/kg	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	ug/kg	-	-	-	-	-	-	-
Dibenzofuran	ug/kg	-	-	-	-	-	-	-
Diethyl phthalate	ug/kg	-	-	-	-	-	-	-
Dimethyl phthalate	ug/kg	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	ug/kg	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	ug/kg	-	-	-	-	-	-	-
Fluoranthene	ug/kg	-	-	-	-	-	-	-
Fluorene	ug/kg	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/kg	-	-	-	-	-	-	-
Naphthalene	ug/kg	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	ug/kg	-	-	-	-	-	-	-
Phenanthrene	ug/kg	-	-	-	-	-	-	-
Phenol	ug/kg	-	-	-	-	-	-	-
Pyrene	ug/kg	-	-	-	-	-	-	-
Metals								
Aluminum	mg/kg	-	-	-	-	-	-	-
Antimony	mg/kg	-	-	-	-	-	-	-
Arsenic	mg/kg	-	-	-	-	-	-	-
Barium	mg/kg	-	-	-	-	-	-	-
Beryllium	mg/kg	-	-	-	-	-	-	-
Cadmium	mg/kg	-	-	-	-	-	-	-
Calcium	mg/kg	-	-	-	-	-	-	-
Chromium	mg/kg	-	-	-	-	-	-	-
Chromium III (trivalent)	mg/kg	-	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-	-
Cobalt	mg/kg	-	-	-	-	-	-	-
Copper	mg/kg	-	-	-	-	-	-	-
Iron	mg/kg	-	-	-	-	-	-	-
Lead	mg/kg	-	-	-	-	-	-	-
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH87-13**	**BH87-13**	**BH88-13**	**BH90-13**	**BH91-13**	**BH92-13**	**BH92-13**
Sample ID:		**S-38443-062613-JC-058**	**S-38443-062613-JC-059**	**S-38443-062413-JC-037**	**S-38443-070813-JL-088**	**S-38443-062713-JC-072**	**S-38443-070913-JC-089**	**S-38443-070913-JC-090**
Sample Date:		**6/26/2013**	**6/26/2013**	**6/24/2013**	**7/8/2013**	**6/27/2013**	**7/9/2013**	**7/9/2013**
Sample Depth:		**18-20 ft BGS**	**18-20 ft BGS**	**18-20 ft BGS**	**26.5-28.5 ft BGS**	**23-25 ft BGS**	**18.8-20.8 ft BGS**	**18.8-20.8 ft BGS**
			Duplicate					**Duplicate**
Parameters	**Units**							
Magnesium	mg/kg	-	-	-	-	-	-	-
Manganese	mg/kg	-	-	-	-	-	-	-
Mercury	mg/kg	-	-	-	-	-	-	-
Nickel	mg/kg	-	-	-	-	-	-	-
Potassium	mg/kg	-	-	-	-	-	-	-
Selenium	mg/kg	-	-	-	-	-	-	-
Silver	mg/kg	-	-	-	-	-	-	-
Sodium	mg/kg	-	-	-	-	-	-	-
Thallium	mg/kg	-	-	-	-	-	-	-
Vanadium	mg/kg	-	-	-	-	-	-	-
Zinc	mg/kg	-	-	-	-	-	-	-
PCBs								
Aroclor-1242 (PCB-1242)	ug/kg	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/kg	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/kg	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/kg	-	-	-	-	-	-	-
Pesticides								
4,4'-DDD	ug/kg	-	-	-	-	-	-	-
4,4'-DDE	ug/kg	-	-	-	-	-	-	-
4,4'-DDT	ug/kg	-	-	-	-	-	-	-
alpha-Chlordane	ug/kg	-	-	-	-	-	-	-
Dieldrin	ug/kg	-	-	-	-	-	-	-
Endosulfan I	ug/kg	-	-	-	-	-	-	-
Endosulfan II	ug/kg	-	-	-	-	-	-	-
Endosulfan sulfate	ug/kg	-	-	-	-	-	-	-
Endrin	ug/kg	-	-	-	-	-	-	-
Endrin aldehyde	ug/kg	-	-	-	-	-	-	-
Endrin ketone	ug/kg	-	-	-	-	-	-	-
gamma-BHC (lindane)	ug/kg	-	-	-	-	-	-	-
gamma-Chlordane	ug/kg	-	-	-	-	-	-	-
Heptachlor epoxide	ug/kg	-	-	-	-	-	-	-
Methoxychlor	ug/kg	-	-	-	-	-	-	-
Dioxin/Furans								
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH87-13**	**BH87-13**	**BH88-13**	**BH90-13**	**BH91-13**	**BH92-13**	**BH92-13**
Sample ID:		**S-38443-062613-JC-058**	**S-38443-062613-JC-059**	**S-38443-062413-JC-037**	**S-38443-070813-JL-088**	**S-38443-062713-JC-072**	**S-38443-070913-JC-089**	**S-38443-070913-JC-090**
Sample Date:		**6/26/2013**	**6/26/2013**	**6/24/2013**	**7/8/2013**	**6/27/2013**	**7/9/2013**	**7/9/2013**
Sample Depth:		**18-20 ft BGS**	**18-20 ft BGS**	**18-20 ft BGS**	**26.5-28.5 ft BGS**	**23-25 ft BGS**	**18.8-20.8 ft BGS**	**18.8-20.8 ft BGS**
			Duplicate					**Duplicate**
Parameters	**Units**							
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Asbestos								
Chrysotile asbestos	%	-	-	-	-	-	-	-
Geotechnical								
Coarse sand	%	-	-	-	-	-	-	-
Fine sand	%	-	-	-	-	-	-	-
Fines	%	-	-	-	-	-	-	-
Gravel	%	-	-	-	-	-	-	-
Medium sand	%	-	-	-	-	-	-	-
Sand	%	-	-	-	-	-	-	-
Sieve, #4	% passed	-	-	-	-	-	-	-
Sieve, #10	% passed	-	-	-	-	-	-	-
Sieve, #20	% passed	-	-	-	-	-	-	-
Sieve, #40	% passed	-	-	-	-	-	-	-
Sieve, #60	% passed	-	-	-	-	-	-	-
Sieve, #80	% passed	-	-	-	-	-	-	-
Sieve, #100	% passed	-	-	-	-	-	-	-
Sieve, #200	% passed	-	-	-	-	-	-	-
Sieve, 0.375 inch	% passed	-	-	-	-	-	-	-
Sieve, 0.75 inch	% passed	-	-	-	-	-	-	-
Sieve, 1 inch	% passed	-	-	-	-	-	-	-
Sieve, 1.5 inch	% passed	-	-	-	-	-	-	-
Sieve, 2 inch	% passed	-	-	-	-	-	-	-
Sieve, 3 inch	% passed	-	-	-	-	-	-	-
General Chemistry								
Cyanide (total)	mg/kg	-	-	-	-	-	-	-
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH87-13**	**BH87-13**	**BH88-13**	**BH90-13**	**BH91-13**	**BH92-13**	**BH92-13**
Sample ID:		**S-38443-062613-JC-058**	**S-38443-062613-JC-059**	**S-38443-062413-JC-037**	**S-38443-070813-JL-088**	**S-38443-062713-JC-072**	**S-38443-070913-JC-089**	**S-38443-070913-JC-090**
Sample Date:		**6/26/2013**	**6/26/2013**	**6/24/2013**	**7/8/2013**	**6/27/2013**	**7/9/2013**	**7/9/2013**
Sample Depth:		**18-20 ft BGS**	**18-20 ft BGS**	**18-20 ft BGS**	**26.5-28.5 ft BGS**	**23-25 ft BGS**	**18.8-20.8 ft BGS**	**18.8-20.8 ft BGS**
			Duplicate					**Duplicate**
Parameters	**Units**							
Total solids	%	-	-	-	-	-	-	-

Notes
< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
D - Compounds at secondary dilution factor.
E - Estimated because of the presence of interference (Inorganics).
E - Exceed calibration range of GC/MS instrument (Organics).
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%. The
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH93-13**	**BH94-17**	**BH95-17**	**BH96-18**	**BH164-17**	**BH164-17**	**BH165-17**
Sample ID:		**S-38443-062813-JC-073**	**S-38443-122017-JC-016**	**S-38443-121917-JC-015**	**S-38443-010318-JC-025**	**S-38443-122017-JC-017**	**S-38443-122017-JC-018**	**S-38443-122017-JC-019**
Sample Date:		**6/28/2013**	**12/20/2017**	**12/19/2017**	**1/3/2018**	**12/20/2017**	**12/20/2017**	**12/20/2017**
Sample Depth:		**13-15 ft BGS**	**13-14.8 ft BGS**	**5-7 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**	**18-20 ft BGS**	**13-15 ft BGS**
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/kg	8.2 UJ	0.24 U	39 U	0.21 U	-	0.42 U	-
1,1,2-Trichloroethane	ug/kg	8.2 UJ	0.41 U	32 U	0.35 U	-	0.71 U	-
1,1-Dichloroethane	ug/kg	8.2 UJ	0.34 U	**67 J**	0.30 U	-	0.60 U	-
1,1-Dichloroethene	ug/kg	8.2 UJ	0.56 U	50 U	0.48 U	-	0.98 U	-
1,2,4-Trichlorobenzene	ug/kg	R	0.25 U	36 U	0.21 U	-	R	-
1,2-Dichlorobenzene	ug/kg	R	0.23 U	25 U	0.20 U	-	R	-
1,2-Dichloroethene (total)	ug/kg	-	-	-	-	-	-	-
1,3-Dichlorobenzene	ug/kg	R	0.30 U	53 U	0.26 U	-	R	-
1,4-Dichlorobenzene	ug/kg	R	0.36 U	38 U	0.31 U	-	R	-
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	33 UJ	11 U	**76 J**	**3.5 J**	-	**4.9 J**	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	33 UJ	0.93 U	**240 J**	0.80 U	-	1.6 U	-
Acetone	ug/kg	33 UJ	58 U	360 U	15 U	-	26 U	-
Benzene	ug/kg	8.2 UJ	0.33 U	**43 J**	**0.71 J**	-	0.58 U	-
Carbon disulfide	ug/kg	8.2 UJ	**2.0 J**	25 U	**2.9 J**	-	**0.41 J**	-
Carbon tetrachloride	ug/kg	8.2 UJ	0.26 U	38 U	0.22 U	-	0.46 U	-
Chlorobenzene	ug/kg	8.2 UJ	0.34 U	**2200**	0.30 U	-	0.60 U	-
Chloroethane	ug/kg	8.2 UJ	0.40 U	39 U	0.34 U	-	0.69 U	-
cis-1,2-Dichloroethene	ug/kg	8.2 UJ	0.29 U	**91 J**	0.25 U	-	0.51 U	-
Cyclohexane	ug/kg	16 UJ	0.22 U	42 U	**2.6 J**	-	0.38 U	-
Ethylbenzene	ug/kg	8.2 UJ	0.28 U	**51 J**	**1.9 J**	-	**0.80 J**	-
Isopropyl benzene	ug/kg	8.2 UJ	0.21 U	**110 J**	**0.89 J**	-	0.36 U	-
Methyl acetate	ug/kg	16 UJ	1.2 U	**2400**	1.0 U	-	2.1 U	-
Methyl cyclohexane	ug/kg	16 UJ	0.24 U	**240 J**	**2.0 J**	-	0.42 U	-
Methyl tert butyl ether (MTBE)	ug/kg	8.2 UJ	0.28 U	36 U	0.24 U	-	0.49 U	-
Methylene chloride	ug/kg	10 UJ	0.25 U	515 U	0.58 U	-	4.5 U	-
Styrene	ug/kg	8.2 UJ	0.28 U	14 U	0.24 U	-	0.49 U	-
Tetrachloroethene	ug/kg	**41 J**	0.39 U	**71 J**	0.33 U	-	0.67 U	-
Toluene	ug/kg	8.2 UJ	0.35 U	**120 J**	**1.8 J**	-	0.62 U	-
trans-1,2-Dichloroethene	ug/kg	8.2 UJ	0.40 U	49 U	0.34 U	-	0.69 U	-
Trichloroethene	ug/kg	**3.9 J**	0.43 U	52 U	0.37 U	-	0.75 U	-
Trichlorofluoromethane (CFC-11)	ug/kg	8.2 UJ	0.25 U	47 U	0.21 U	-	0.44 U	-
Trifluorotrichloroethane (CFC-113)	ug/kg	8.2 UJ	0.51 U	32 U	0.44 U	-	0.89 U	-
Vinyl chloride	ug/kg	8.2 UJ	0.29 U	24 U	0.25 U	-	0.51 U	-
Xylenes (total)	ug/kg	16 UJ	0.42 U	**190 J**	**15**	-	**2.5 J**	-
Semi-Volatiles								
2,4-Dimethylphenol	ug/kg	-	24 U	230 U	110 U	-	17000 U	-
2-Chlorophenol	ug/kg	-	9.8 U	96 U	46 U	-	7100 U	-
2-Methylnaphthalene	ug/kg	-	**110**	**350**	**940**	-	**29000**	-
2-Methylphenol	ug/kg	-	13 U	130 U	61 U	-	9500 U	-
3&4-Methylphenol	ug/kg	-	24 U	230 U	**250 J**	-	17000 U	-
Acenaphthene	ug/kg	-	**21**	**230**	**160**	-	**120000**	-
Acenaphthylene	ug/kg	-	**10**	**330**	1.9 U	-	**3100 J**	-
Acetophenone	ug/kg	-	11 U	110 U	**170 J**	-	8000 U	-

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH93-13**	**BH94-17**	**BH95-17**	**BH96-18**	**BH164-17**	**BH164-17**	**BH165-17**
Sample ID:		**S-38443-062813-JC-073**	**S-38443-122017-JC-016**	**S-38443-121917-JC-015**	**S-38443-010318-JC-025**	**S-38443-122017-JC-017**	**S-38443-122017-JC-018**	**S-38443-122017-JC-019**
Sample Date:		**6/28/2013**	**12/20/2017**	**12/19/2017**	**1/3/2018**	**12/20/2017**	**12/20/2017**	**12/20/2017**
Sample Depth:		**13-15 ft BGS**	**13-14.8 ft BGS**	**5-7 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**	**18-20 ft BGS**	**13-15 ft BGS**
Parameters	**Units**							
Anthracene	ug/kg	-	**35**	**950**	**94**	-	**200000**	-
Benzaldehyde	ug/kg	-	140 U	140 U	67 U	-	10000 U	-
Benzo(a)anthracene	ug/kg	-	**110**	**2100**	**59**	-	**390000**	-
Benzo(a)pyrene	ug/kg	-	**93**	**1600**	**21 J**	-	**340000**	-
Benzo(b)fluoranthene	ug/kg	-	**150**	**2100**	**48**	-	**460000**	-
Benzo(g,h,i)perylene	ug/kg	-	**82**	**840**	1.9 U	-	**210000**	-
Benzo(k)fluoranthene	ug/kg	-	**31**	**620**	3.8 U	-	**170000**	-
Biphenyl (1,1-Biphenyl)	ug/kg	-	**13 J**	**64 J**	**230 J**	-	**11000 J**	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	-	**98**	**250 J**	220 U	-	16000 U	-
Butyl benzylphthalate (BBP)	ug/kg	-	12 U	120 U	56 U	-	8700 U	-
Carbazole	ug/kg	-	32 U	**330 J**	150 U	-	**140000**	-
Chrysene	ug/kg	-	**150**	**1900**	**77**	-	**350000**	-
Dibenz(a,h)anthracene	ug/kg	-	**28**	**270**	3.7 U	-	**66000**	-
Dibenzofuran	ug/kg	-	**39 J**	**300 J**	**85 J**	-	**71000**	-
Diethyl phthalate	ug/kg	-	30 U	190 U	89 U	-	14000 U	-
Dimethyl phthalate	ug/kg	-	20 U	200 U	95 U	-	15000 U	-
Di-n-butylphthalate (DBP)	ug/kg	-	18 U	180 U	84 U	-	13000 U	-
Di-n-octyl phthalate (DnOP)	ug/kg	-	9.4 U	92 U	44 U	-	6800 U	-
Fluoranthene	ug/kg	-	**240**	**3900**	**190**	-	**840000**	-
Fluorene	ug/kg	-	**20**	**390**	**340**	-	**150000**	-
Indeno(1,2,3-cd)pyrene	ug/kg	-	**61**	**760**	1.9 U	-	**190000**	-
Naphthalene	ug/kg	-	**75**	**320**	**1500**	-	**110000**	-
N-Nitrosodiphenylamine	ug/kg	-	25 U	250 U	120 U	-	18000 U	-
Phenanthrene	ug/kg	-	**180**	**3300**	**750**	-	**690000**	-
Phenol	ug/kg	-	8.7 U	85 U	**54 J**	-	6300 U	-
Pyrene	ug/kg	-	**200**	**3500**	**190**	-	**670000**	-
Metals								
Aluminum	mg/kg	-	**2800**	**1200**	**2500 J**	-	**16000**	-
Antimony	mg/kg	-	**0.68**	**0.55**	**0.55 J**	-	**44**	-
Arsenic	mg/kg	-	**5.8**	**5.5**	**4.4**	-	**25**	-
Barium	mg/kg	-	**310**	**120**	**15**	-	**1700**	-
Beryllium	mg/kg	-	**0.44**	**0.37**	**0.097 J**	-	**1.3**	-
Cadmium	mg/kg	-	**1.1**	**0.16 J**	**2.2**	-	**13**	-
Calcium	mg/kg	-	**86000**	**11000**	**12000**	-	**46000**	-
Chromium	mg/kg	-	**13**	**7.4**	**71**	**310**	**79**	**58**
Chromium III (trivalent)	mg/kg	-	**13**	**7.4**	**71**	**300**	**79**	**58**
Chromium VI (hexavalent)	mg/kg	-	0.28 U	0.28 U	0.27 U	**5.0**	1.7 U	1.5 U
Cobalt	mg/kg	-	**4.3**	**3.7**	**3.4**	-	**14**	-
Copper	mg/kg	-	**41**	**61**	**110 J**	-	**530**	-
Iron	mg/kg	-	**12000**	**3100**	**44000**	-	**31000**	-
Lead	mg/kg	-	**570**	**28**	**38**	-	**1900**	-
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH93-13**	**BH94-17**	**BH95-17**	**BH96-18**	**BH164-17**	**BH164-17**	**BH165-17**
Sample ID:		**S-38443-062813-JC-073**	**S-38443-122017-JC-016**	**S-38443-121917-JC-015**	**S-38443-010318-JC-025**	**S-38443-122017-JC-017**	**S-38443-122017-JC-018**	**S-38443-122017-JC-019**
Sample Date:		**6/28/2013**	**12/20/2017**	**12/19/2017**	**1/3/2018**	**12/20/2017**	**12/20/2017**	**12/20/2017**
Sample Depth:		**13-15 ft BGS**	**13-14.8 ft BGS**	**5-7 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**	**18-20 ft BGS**	**13-15 ft BGS**
Parameters	**Units**							
Magnesium	mg/kg	-	**20000**	**3200**	**5600**	-	**11000**	-
Manganese	mg/kg	-	**250 J**	**40**	**1900**	-	**410 J**	-
Mercury	mg/kg	-	**0.028 J**	**0.037 J**	0.020 U	-	**0.28 J**	-
Nickel	mg/kg	-	**15**	**7.1**	**47**	-	**72**	-
Potassium	mg/kg	-	**350**	**240**	**180 J**	-	**1700**	-
Selenium	mg/kg	-	**1.4**	**0.98 J**	**0.22 J**	-	**2.0**	-
Silver	mg/kg	-	**0.076 J**	**0.11 J**	**0.23**	-	**3.7**	-
Sodium	mg/kg	-	**120 J**	**70 J**	**400**	-	**1000 J**	-
Thallium	mg/kg	-	**0.16 J**	**0.12 J**	0.051 U	-	**0.35 J**	-
Vanadium	mg/kg	-	**9.6**	**6.6**	**5.0**	-	**30**	-
Zinc	mg/kg	-	**14000**	**16**	**140 J**	-	**2800**	-
PCBs								
Aroclor-1242 (PCB-1242)	ug/kg	-	22 U	22 U	22 U	-	**930000**	-
Aroclor-1248 (PCB-1248)	ug/kg	-	28 U	28 U	27 U	-	32000 U	-
Aroclor-1254 (PCB-1254)	ug/kg	-	**110**	**380**	26 U	-	31000 U	-
Aroclor-1260 (PCB-1260)	ug/kg	-	26 U	26 U	25 U	-	29000 U	-
Pesticides								
4,4'-DDD	ug/kg	-	3.8 U	19 U	3.7 U	-	2300 U	-
4,4'-DDE	ug/kg	-	1.4 U	6.9 U	1.4 U	-	820 U	-
4,4'-DDT	ug/kg	-	1.6 U	8.0 U	1.6 U	-	960 U	-
alpha-Chlordane	ug/kg	-	4.4 U	22 U	4.3 U	-	2600 U	-
Dieldrin	ug/kg	-	1.0 U	5.2 U	1.0 U	-	620 U	-
Endosulfan I	ug/kg	-	1.5 U	7.4 U	1.5 U	-	890 U	-
Endosulfan II	ug/kg	-	2.1 U	10 U	2.0 U	-	1200 U	-
Endosulfan sulfate	ug/kg	-	28 U	27 U	1.4 U	-	820 U	-
Endrin	ug/kg	-	1.6 U	8.0 UJ	1.6 U	-	960 U	-
Endrin aldehyde	ug/kg	-	42 UJ	41 UJ	20 U	-	1200 UJ	-
Endrin ketone	ug/kg	-	1.3 U	6.3 U	1.2 U	-	750 U	-
gamma-BHC (lindane)	ug/kg	-	3.4 U	17 U	3.3 U	-	**3400 J**	-
gamma-Chlordane	ug/kg	-	1.7 U	8.6 U	1.7 U	-	1000 U	-
Heptachlor epoxide	ug/kg	-	2.8 U	14 U	2.7 U	-	1600 U	-
Methoxychlor	ug/kg	-	**3.1 NJ**	6.9 U	**2.9 J**	-	820 U	-
Dioxin/Furans								
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	**16**	**12**	**4.9 J**	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	**230**	**440**	**46**	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	**7.7**	**6.5**	**5.2 J**	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	**25**	**20**	**7.5**	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	**0.52 J**	**0.89 J**	0.20 U	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	**1.7 J**	**3.2 J**	**1.9 J**	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	0.064 U	0.070 U	**0.18 J**	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	**1.0 J**	**1.0 J**	**0.83 J**	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	**1.1 J**	0.069 U	**1.3 J**	-	-	-

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH93-13**	**BH94-17**	**BH95-17**	**BH96-18**	**BH164-17**	**BH164-17**	**BH165-17**
Sample ID:		**S-38443-062813-JC-073**	**S-38443-122017-JC-016**	**S-38443-121917-JC-015**	**S-38443-010318-JC-025**	**S-38443-122017-JC-017**	**S-38443-122017-JC-018**	**S-38443-122017-JC-019**
Sample Date:		**6/28/2013**	**12/20/2017**	**12/19/2017**	**1/3/2018**	**12/20/2017**	**12/20/2017**	**12/20/2017**
Sample Depth:		**13-15 ft BGS**	**13-14.8 ft BGS**	**5-7 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**	**18-20 ft BGS**	**13-15 ft BGS**
Parameters	**Units**							
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	0.11 U	0.29 U	0.24 U	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	**1.0 J**	0.065 U	**0.91 J**	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	**1.9 J**	**0.58 J**	**0.43 J**	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	1.5 U	1.3 U	**0.41 J**	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	**0.64 J**	**0.91 J**	**0.85 J**	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	**2.1 J**	**1.1 J**	**1.2 J**	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	**8.5**	**1.7 J**	**0.79 J**	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	**0.24 J**	**0.48 J**	**0.14 J**	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	**21 J**	**20 J**	**12 J**	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	**46 J**	**43 J**	**15 J**	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	**17 J**	**21 J**	**9.5 J**	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	**10 J**	**8.8 J**	**9.1 J**	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	**26 J**	**31 J**	**10 J**	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	**230 J**	**630 J**	**74 J**	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	**71 J**	**47 J**	**16 J**	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	**2.9 J**	**3.3 J**	**1.5 J**	-	-	-
Asbestos								
Chrysotile asbestos	%	-	-	-	1 <	-	1 <	-
Geotechnical								
Coarse sand	%	-	-	-	-	-	-	-
Fine sand	%	-	-	-	-	-	-	-
Fines	%	-	-	-	-	-	-	-
Gravel	%	-	-	-	-	-	-	-
Medium sand	%	-	-	-	-	-	-	-
Sand	%	-	-	-	-	-	-	-
Sieve, #4	% passed	-	-	-	-	-	-	-
Sieve, #10	% passed	-	-	-	-	-	-	-
Sieve, #20	% passed	-	-	-	-	-	-	-
Sieve, #40	% passed	-	-	-	-	-	-	-
Sieve, #60	% passed	-	-	-	-	-	-	-
Sieve, #80	% passed	-	-	-	-	-	-	-
Sieve, #100	% passed	-	-	-	-	-	-	-
Sieve, #200	% passed	-	-	-	-	-	-	-
Sieve, 0.375 inch	% passed	-	-	-	-	-	-	-
Sieve, 0.75 inch	% passed	-	-	-	-	-	-	-
Sieve, 1 inch	% passed	-	-	-	-	-	-	-
Sieve, 1.5 inch	% passed	-	-	-	-	-	-	-
Sieve, 2 inch	% passed	-	-	-	-	-	-	-
Sieve, 3 inch	% passed	-	-	-	-	-	-	-
General Chemistry								
Cyanide (total)	mg/kg	-	**0.14 J**	**0.084 J**	**0.14 J**	-	**120**	-
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH93-13**	**BH94-17**	**BH95-17**	**BH96-18**	**BH164-17**	**BH164-17**	**BH165-17**
Sample ID:		**S-38443-062813-JC-073**	**S-38443-122017-JC-016**	**S-38443-121917-JC-015**	**S-38443-010318-JC-025**	**S-38443-122017-JC-017**	**S-38443-122017-JC-018**	**S-38443-122017-JC-019**
Sample Date:		**6/28/2013**	**12/20/2017**	**12/19/2017**	**1/3/2018**	**12/20/2017**	**12/20/2017**	**12/20/2017**
Sample Depth:		**13-15 ft BGS**	**13-14.8 ft BGS**	**5-7 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**	**18-20 ft BGS**	**13-15 ft BGS**
Parameters	**Units**							
Total solids	%	-	-	-	-	-	-	-

Notes
< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
D - Compounds at secondary dilution factor.
E - Estimated because of the presence of interference (Inorganics).
E - Exceed calibration range of GC/MS instrument (Organics).
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%. The
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH165-17**	**BH166-17**	**BH166-17**	**BH168-17**	**BH172-17**	**BH173-17**	**BH173-17**
Sample ID:		**S-38443-122017-JC-020**	**S-38443-121917-JC-012**	**S-38443-121917-JC-013**	**S-38443-122117-JC-024**	**S-38443-120817-JC-007**	**S-38443-122117-JC-021**	**S-38443-122117-JC-022**
Sample Date:		**12/20/2017**	**12/19/2017**	**12/19/2017**	**12/21/2017**	**12/8/2017**	**12/21/2017**	**12/21/2017**
Sample Depth:		**21.5-23.5 ft BGS**	**1-3 ft BGS**	**18-20 ft BGS**	**12.5-14.5 ft BGS**	**12-14 ft BGS**	**5-7 ft BGS**	**17.5-19.5 ft BGS**
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/kg	54 U	-	0.77 U	-	-	-	36 U
1,1,2-Trichloroethane	ug/kg	45 U	-	R	-	-	-	29 U
1,1-Dichloroethane	ug/kg	60 U	-	1.1 U	-	-	-	39 U
1,1-Dichloroethene	ug/kg	70 UJ	-	1.8 U	-	-	-	46 UJ
1,2,4-Trichlorobenzene	ug/kg	50 U	-	R	-	-	-	33 U
1,2-Dichlorobenzene	ug/kg	35 U	-	R	-	-	-	23 U
1,2-Dichloroethene (total)	ug/kg	-	-	-	-	-	-	-
1,3-Dichlorobenzene	ug/kg	74 U	-	R	-	-	-	48 U
1,4-Dichlorobenzene	ug/kg	**130 J**	-	R	-	-	-	34 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	97 U	-	R	-	-	-	64 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	78 U	-	**9.9 J**	-	-	-	51 U
Acetone	ug/kg	276 U	-	**78 J**	-	-	-	120 U
Benzene	ug/kg	47 U	-	1.1 U	-	-	-	31 U
Carbon disulfide	ug/kg	**150 J**	-	**1.4 J**	-	-	-	23 U
Carbon tetrachloride	ug/kg	52 U	-	0.84 U	-	-	-	34 U
Chlorobenzene	ug/kg	**2400**	-	R	-	-	-	130 U
Chloroethane	ug/kg	54 U	-	1.3 U	-	-	-	36 U
cis-1,2-Dichloroethene	ug/kg	68 UJ	-	0.94 U	-	-	-	45 U
Cyclohexane	ug/kg	58 U	-	0.71 U	-	-	-	38 UJ
Ethylbenzene	ug/kg	68 U	-	**0.95 J**	-	-	-	45 U
Isopropyl benzene	ug/kg	66 U	-	R	-	-	-	43 U
Methyl acetate	ug/kg	**460 J**	-	3.9 U	-	-	-	95 U
Methyl cyclohexane	ug/kg	72 U	-	0.77 U	-	-	-	47 UJ
Methyl tert butyl ether (MTBE)	ug/kg	50 U	-	0.91 U	-	-	-	33 U
Methylene chloride	ug/kg	150 U	-	0.81 U	-	-	-	**89 J**
Styrene	ug/kg	19 U	-	R	-	-	-	13 U
Tetrachloroethene	ug/kg	41 U	-	R	-	-	-	**1100**
Toluene	ug/kg	70 U	-	**24 J**	-	-	-	56 U
trans-1,2-Dichloroethene	ug/kg	68 U	-	1.3 U	-	-	-	45 U
Trichloroethene	ug/kg	72 U	-	1.4 U	-	-	-	**130 J**
Trichlorofluoromethane (CFC-11)	ug/kg	66 U	-	0.81 U	-	-	-	43 U
Trifluorotrichloroethane (CFC-113)	ug/kg	45 UJ	-	1.6 U	-	-	-	29 UJ
Vinyl chloride	ug/kg	33 U	-	0.94 U	-	-	-	22 U
Xylenes (total)	ug/kg	**66 J**	-	R	-	-	-	36 U
Semi-Volatiles								
2,4-Dimethylphenol	ug/kg	9500 U	-	37 U	-	-	-	23 U
2-Chlorophenol	ug/kg	3900 U	-	15 U	-	-	-	9.6 U
2-Methylnaphthalene	ug/kg	240 U	-	R	-	-	-	**39 J**
2-Methylphenol	ug/kg	5200 U	-	20 U	-	-	-	13 U
3&4-Methylphenol	ug/kg	9500 U	-	37 U	-	-	-	23 U
Acenaphthene	ug/kg	360 U	-	R	-	-	-	**18 J**
Acenaphthylene	ug/kg	170 U	-	R	-	-	-	**24**
Acetophenone	ug/kg	4400 U	-	R	-	-	-	11 U

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH165-17**	**BH166-17**	**BH166-17**	**BH168-17**	**BH172-17**	**BH173-17**	**BH173-17**
Sample ID:		**S-38443-122017-JC-020**	**S-38443-121917-JC-012**	**S-38443-121917-JC-013**	**S-38443-122117-JC-024**	**S-38443-120817-JC-007**	**S-38443-122117-JC-021**	**S-38443-122117-JC-022**
Sample Date:		**12/20/2017**	**12/19/2017**	**12/19/2017**	**12/21/2017**	**12/8/2017**	**12/21/2017**	**12/21/2017**
Sample Depth:		**21.5-23.5 ft BGS**	**1-3 ft BGS**	**18-20 ft BGS**	**12.5-14.5 ft BGS**	**12-14 ft BGS**	**5-7 ft BGS**	**17.5-19.5 ft BGS**
Parameters	**Units**							
Anthracene	ug/kg	370 U	-	R	-	-	-	**42 J**
Benzaldehyde	ug/kg	5700 U	-	R	-	-	-	14 U
Benzo(a)anthracene	ug/kg	300 U	-	R	-	-	-	**200 J**
Benzo(a)pyrene	ug/kg	310 U	-	R	-	-	-	**200 J**
Benzo(b)fluoranthene	ug/kg	280 U	-	R	-	-	-	**290 J**
Benzo(g,h,i)perylene	ug/kg	170 U	-	R	-	-	-	**190 J**
Benzo(k)fluoranthene	ug/kg	320 U	-	R	-	-	-	**110 J**
Biphenyl (1,1-Biphenyl)	ug/kg	1700 U	-	R	-	-	-	**25 J**
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	**560000**	-	**68 J**	-	-	-	**65 J**
Butyl benzylphthalate (BBP)	ug/kg	**45000**	-	R	-	-	-	12 U
Carbazole	ug/kg	13000 U	-	R	-	-	-	32 U
Chrysene	ug/kg	520 U	-	R	-	-	-	**220 J**
Dibenz(a,h)anthracene	ug/kg	310 U	-	R	-	-	-	**50 J**
Dibenzofuran	ug/kg	310 U	-	R	-	-	-	**38 J**
Diethyl phthalate	ug/kg	**9700 J**	-	R	-	-	-	39 U
Dimethyl phthalate	ug/kg	8100 U	-	R	-	-	-	20 U
Di-n-butylphthalate (DBP)	ug/kg	7200 U	-	R	-	-	-	**29 J**
Di-n-octyl phthalate (DnOP)	ug/kg	3800 U	-	R	-	-	-	9.3 U
Fluoranthene	ug/kg	260 U	-	R	-	-	-	**380 J**
Fluorene	ug/kg	250 U	-	R	-	-	-	**11 J**
Indeno(1,2,3-cd)pyrene	ug/kg	170 U	-	R	-	-	-	**140 J**
Naphthalene	ug/kg	390 U	-	R	-	-	-	**39 J**
N-Nitrosodiphenylamine	ug/kg	10000 U	-	R	-	-	-	25 U
Phenanthrene	ug/kg	350 U	-	R	-	-	-	**190 J**
Phenol	ug/kg	3500 U	-	14 U	-	-	-	**25 J**
Pyrene	ug/kg	210 U	-	R	-	-	-	**310 J**
Metals								
Aluminum	mg/kg	**11000**	-	**3600**	-	-	-	**11000**
Antimony	mg/kg	**4.1 J**	-	**2.5**	-	-	-	**16**
Arsenic	mg/kg	**26**	-	**60**	-	-	-	**26**
Barium	mg/kg	**570**	-	**380**	-	-	-	**1300**
Beryllium	mg/kg	**1.4**	-	**4.0**	-	-	-	**0.72**
Cadmium	mg/kg	**3.2**	-	**0.26 J**	-	-	-	**18**
Calcium	mg/kg	**63000**	-	**1300**	-	-	-	**40000**
Chromium	mg/kg	**57**	**52**	**14**	**79**	**6.2**	**24**	**290**
Chromium III (trivalent)	mg/kg	**57**	**52**	**14**	**79**	**6.2**	**24**	**270**
Chromium VI (hexavalent)	mg/kg	1.7 U	0.28 U	0.44 U	2.8 U	0.34 U	2.8 U	**16**
Cobalt	mg/kg	**12**	-	**11**	-	-	-	**53**
Copper	mg/kg	**400 J**	-	**62**	-	-	-	**3600**
Iron	mg/kg	**52000**	-	**8500**	-	-	-	**81000**
Lead	mg/kg	**500 J**	-	**37**	-	-	-	**4900**
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH165-17**	**BH166-17**	**BH166-17**	**BH168-17**	**BH172-17**	**BH173-17**	**BH173-17**
Sample ID:		**S-38443-122017-JC-020**	**S-38443-121917-JC-012**	**S-38443-121917-JC-013**	**S-38443-122117-JC-024**	**S-38443-120817-JC-007**	**S-38443-122117-JC-021**	**S-38443-122117-JC-022**
Sample Date:		**12/20/2017**	**12/19/2017**	**12/19/2017**	**12/21/2017**	**12/8/2017**	**12/21/2017**	**12/21/2017**
Sample Depth:		**21.5-23.5 ft BGS**	**1-3 ft BGS**	**18-20 ft BGS**	**12.5-14.5 ft BGS**	**12-14 ft BGS**	**5-7 ft BGS**	**17.5-19.5 ft BGS**
Parameters	**Units**							
Magnesium	mg/kg	**19000**	-	**330**	-	-	-	**17000**
Manganese	mg/kg	**580**	-	**12**	-	-	-	**760**
Mercury	mg/kg	**0.57**	-	**0.090 J**	-	-	-	**0.70**
Nickel	mg/kg	**45**	-	**20**	-	-	-	**180**
Potassium	mg/kg	**910**	-	**490**	-	-	-	**1600**
Selenium	mg/kg	**2.4**	-	**11**	-	-	-	**2.4**
Silver	mg/kg	**1.6**	-	**0.15 J**	-	-	-	**3.7**
Sodium	mg/kg	**370**	-	**350**	-	-	-	**600**
Thallium	mg/kg	**0.76**	-	**1.8**	-	-	-	**0.41**
Vanadium	mg/kg	**26**	-	**51**	-	-	-	**170**
Zinc	mg/kg	**700**	-	**23**	-	-	-	**1600**
PCBs								
Aroclor-1242 (PCB-1242)	ug/kg	**3700**	-	35 U	-	-	-	22 U
Aroclor-1248 (PCB-1248)	ug/kg	170 U	-	44 U	-	-	-	28 U
Aroclor-1254 (PCB-1254)	ug/kg	160 U	-	42 U	-	-	-	**150 J**
Aroclor-1260 (PCB-1260)	ug/kg	**1400**	-	40 U	-	-	-	26 U
Pesticides								
4,4'-DDD	ug/kg	22 U	-	6.1 U	-	-	-	**6.8 NJ**
4,4'-DDE	ug/kg	**8.1 NJ**	-	2.2 U	-	-	-	**3.8 NJ**
4,4'-DDT	ug/kg	9.2 U	-	2.6 U	-	-	-	**16**
alpha-Chlordane	ug/kg	25 U	-	7.0 U	-	-	-	4.5 U
Dieldrin	ug/kg	5.9 U	-	1.7 U	-	-	-	1.1 U
Endosulfan I	ug/kg	8.6 U	-	2.4 U	-	-	-	**1.5 J**
Endosulfan II	ug/kg	12 U	-	3.3 U	-	-	-	2.1 U
Endosulfan sulfate	ug/kg	790 U	-	44 U	-	-	-	1.4 U
Endrin	ug/kg	9.2 U	-	2.6 U	-	-	-	1.6 U
Endrin aldehyde	ug/kg	1200 U	-	66 UJ	-	-	-	2.1 U
Endrin ketone	ug/kg	7.2 U	-	2.0 U	-	-	-	1.3 U
gamma-BHC (lindane)	ug/kg	19 U	-	5.3 U	-	-	-	3.4 U
gamma-Chlordane	ug/kg	9.9 U	-	2.8 U	-	-	-	1.8 U
Heptachlor epoxide	ug/kg	16 U	-	4.4 U	-	-	-	2.8 U
Methoxychlor	ug/kg	7.9 U	-	2.2 U	-	-	-	1.4 U
Dioxin/Furans								
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH165-17**	**BH166-17**	**BH166-17**	**BH168-17**	**BH172-17**	**BH173-17**	**BH173-17**
Sample ID:		**S-38443-122017-JC-020**	**S-38443-121917-JC-012**	**S-38443-121917-JC-013**	**S-38443-122117-JC-024**	**S-38443-120817-JC-007**	**S-38443-122117-JC-021**	**S-38443-122117-JC-022**
Sample Date:		**12/20/2017**	**12/19/2017**	**12/19/2017**	**12/21/2017**	**12/8/2017**	**12/21/2017**	**12/21/2017**
Sample Depth:		**21.5-23.5 ft BGS**	**1-3 ft BGS**	**18-20 ft BGS**	**12.5-14.5 ft BGS**	**12-14 ft BGS**	**5-7 ft BGS**	**17.5-19.5 ft BGS**
Parameters	**Units**							
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Asbestos								
Chrysotile asbestos	%	1 <	-	-	-	-	-	**8**
Geotechnical								
Coarse sand	%	-	-	-	-	-	-	-
Fine sand	%	-	-	-	-	-	-	-
Fines	%	-	-	-	-	-	-	-
Gravel	%	-	-	-	-	-	-	-
Medium sand	%	-	-	-	-	-	-	-
Sand	%	-	-	-	-	-	-	-
Sieve, #4	% passed	-	-	-	-	-	-	-
Sieve, #10	% passed	-	-	-	-	-	-	-
Sieve, #20	% passed	-	-	-	-	-	-	-
Sieve, #40	% passed	-	-	-	-	-	-	-
Sieve, #60	% passed	-	-	-	-	-	-	-
Sieve, #80	% passed	-	-	-	-	-	-	-
Sieve, #100	% passed	-	-	-	-	-	-	-
Sieve, #200	% passed	-	-	-	-	-	-	-
Sieve, 0.375 inch	% passed	-	-	-	-	-	-	-
Sieve, 0.75 inch	% passed	-	-	-	-	-	-	-
Sieve, 1 inch	% passed	-	-	-	-	-	-	-
Sieve, 1.5 inch	% passed	-	-	-	-	-	-	-
Sieve, 2 inch	% passed	-	-	-	-	-	-	-
Sieve, 3 inch	% passed	-	-	-	-	-	-	-
General Chemistry								
Cyanide (total)	mg/kg	**3.1**	-	**0.12 J**	-	-	-	**0.53 J**
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH165-17**	**BH166-17**	**BH166-17**	**BH168-17**	**BH172-17**	**BH173-17**	**BH173-17**
Sample ID:		**S-38443-122017-JC-020**	**S-38443-121917-JC-012**	**S-38443-121917-JC-013**	**S-38443-122117-JC-024**	**S-38443-120817-JC-007**	**S-38443-122117-JC-021**	**S-38443-122117-JC-022**
Sample Date:		**12/20/2017**	**12/19/2017**	**12/19/2017**	**12/21/2017**	**12/8/2017**	**12/21/2017**	**12/21/2017**
Sample Depth:		**21.5-23.5 ft BGS**	**1-3 ft BGS**	**18-20 ft BGS**	**12.5-14.5 ft BGS**	**12-14 ft BGS**	**5-7 ft BGS**	**17.5-19.5 ft BGS**
Parameters	**Units**							
Total solids	%	-	-	-	-	-	-	-

Notes
< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
D - Compounds at secondary dilution factor.
E - Estimated because of the presence of interference (Inorganics).
E - Exceed calibration range of GC/MS instrument (Organics).
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%. The
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH173-17**	**BH176-18**	**GP25-18**	**GP26-18**	**GP27-18**	**GP28-18**	**GP29-18**
Sample ID:		**S-38443-122117-JC-023**	**S-38443-051618-JC-072**	**S-38443-012918-JC-066**	**S-38443-012918-JC-065**	**S-38443-013018-JC-067**	**S-38443-013018-JC-068**	**S-38443-013018-JC-069**
Sample Date:		**12/21/2017**	**5/16/2018**	**1/29/2018**	**1/29/2018**	**1/30/2018**	**1/30/2018**	**1/30/2018**
Sample Depth:		**17.5-19.5 ft BGS**	**18-20 ft BGS**	**15-16 ft bgs**	**13.5-14.5 ft bgs**	**7-8 ft bgs**	**15-16 ft bgs**	**9-10 ft bgs**
		Duplicate						
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/kg	37 U	0.20 U	53 UJ	0.25 U	41 U	13000 U	0.23 UJ
1,1,2-Trichloroethane	ug/kg	31 U	0.35 U	43 UJ	0.43 U	33 U	11000 U	0.39 U
1,1-Dichloroethane	ug/kg	41 U	0.29 U	58 UJ	0.36 U	45 U	15000 U	0.33 U
1,1-Dichloroethene	ug/kg	48 UJ	0.48 U	68 UJ	0.60 U	52 U	17000 U	0.54 U
1,2,4-Trichlorobenzene	ug/kg	35 U	0.21 U	49 UJ	**0.98 J**	38 U	12000 U	0.24 U
1,2-Dichlorobenzene	ug/kg	24 U	0.20 U	34 UJ	0.24 U	**200 J**	8500 U	0.22 U
1,2-Dichloroethene (total)	ug/kg	-	-	-	-	-	-	-
1,3-Dichlorobenzene	ug/kg	51 U	0.26 U	71 UJ	0.32 U	55 U	18000 U	0.29 U
1,4-Dichlorobenzene	ug/kg	36 U	0.31 U	51 UJ	0.39 U	**2900**	13000 U	0.35 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	66 U	1.1 U	94 UJ	**6.3 J**	**270 J**	24000 U	**12 J**
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	53 U	0.79 U	75 UJ	0.98 U	58 U	19000 U	0.88 U
Acetone	ug/kg	130 U	2.7 U	180 UJ	**15 J**	**880 J**	46000 U	44 U
Benzene	ug/kg	32 U	0.28 U	45 UJ	0.35 U	35 U	11000 U	**0.36 J**
Carbon disulfide	ug/kg	24 U	0.19 U	34 UJ	0.23 U	26 U	8500 U	0.21 U
Carbon tetrachloride	ug/kg	36 U	0.22 U	51 UJ	0.28 U	39 U	13000 U	0.25 U
Chlorobenzene	ug/kg	132 U	0.29 U	**2000 J**	**5.4 J**	**1900**	14000 U	0.33 U
Chloroethane	ug/kg	37 U	0.34 U	53 UJ	0.42 U	41 U	13000 U	0.38 U
cis-1,2-Dichloroethene	ug/kg	47 U	0.25 U	66 UJ	0.31 U	51 U	16000 U	**0.88 J**
Cyclohexane	ug/kg	40 UJ	0.19 U	56 UJ	0.23 U	43 U	14000 U	0.21 U
Ethylbenzene	ug/kg	47 U	0.24 U	66 UJ	0.30 U	51 U	**350000**	**0.44 J**
Isopropyl benzene	ug/kg	45 U	0.18 U	64 UJ	**0.65 J**	49 U	16000 U	**1.4 J**
Methyl acetate	ug/kg	100 U	1.0 U	140 UJ	1.3 U	**260 J**	35000 U	1.2 U
Methyl cyclohexane	ug/kg	49 UJ	0.20 U	69 UJ	0.25 U	54 U	17000 U	0.23 U
Methyl tert butyl ether (MTBE)	ug/kg	35 U	0.24 U	49 UJ	0.30 U	38 U	12000 U	0.27 U
Methylene chloride	ug/kg	**110 J**	0.21 U	150 UJ	1.7 U	240 U	33000 U	1.8 UJ
Styrene	ug/kg	13 U	0.24 U	19 UJ	0.30 U	14 U	4700 U	0.27 U
Tetrachloroethene	ug/kg	**650**	0.33 U	39 UJ	0.41 U	30 U	9900 U	0.37 U
Toluene	ug/kg	32 U	0.30 U	45 UJ	**0.56 J**	**46 J**	11000 U	**0.60 J**
trans-1,2-Dichloroethene	ug/kg	47 U	0.34 U	66 UJ	0.42 U	51 U	16000 U	0.38 U
Trichloroethene	ug/kg	49 U	**0.81 J**	69 UJ	0.45 U	54 U	17000 U	0.41 U
Trichlorofluoromethane (CFC-11)	ug/kg	45 U	0.21 U	64 UJ	0.27 U	49 U	16000 U	0.24 U
Trifluorotrichloroethane (CFC-113)	ug/kg	31 UJ	0.43 U	43 UJ	0.54 U	33 U	11000 U	0.49 U
Vinyl chloride	ug/kg	23 U	0.25 U	32 UJ	0.31 U	25 U	8000 U	0.28 U
Xylenes (total)	ug/kg	37 U	0.35 U	53 UJ	0.44 U	**160 J**	**3000000**	**1.4 J**
Semi-Volatiles								
2,4-Dimethylphenol	ug/kg	95 U	48 U	-	-	-	-	-
2-Chlorophenol	ug/kg	39 U	12 U	-	-	-	-	-
2-Methylnaphthalene	ug/kg	**130 J**	**7.2 J**	-	-	-	-	-
2-Methylphenol	ug/kg	52 U	37 U	-	-	-	-	-
3&4-Methylphenol	ug/kg	95 U	35 U	-	-	-	-	-
Acenaphthene	ug/kg	**420 J**	**5.8 J**	-	-	-	-	-
Acenaphthylene	ug/kg	**31 J**	0.42 U	-	-	-	-	-
Acetophenone	ug/kg	44 U	13 U	-	-	-	-	-

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH173-17**	**BH176-18**	**GP25-18**	**GP26-18**	**GP27-18**	**GP28-18**	**GP29-18**
Sample ID:		**S-38443-122117-JC-023**	**S-38443-051618-JC-072**	**S-38443-012918-JC-066**	**S-38443-012918-JC-065**	**S-38443-013018-JC-067**	**S-38443-013018-JC-068**	**S-38443-013018-JC-069**
Sample Date:		**12/21/2017**	**5/16/2018**	**1/29/2018**	**1/29/2018**	**1/30/2018**	**1/30/2018**	**1/30/2018**
Sample Depth:		**17.5-19.5 ft BGS**	**18-20 ft BGS**	**15-16 ft bgs**	**13.5-14.5 ft bgs**	**7-8 ft bgs**	**15-16 ft bgs**	**9-10 ft bgs**
		Duplicate						
Parameters	**Units**							
Anthracene	ug/kg	**580 J**	**11**	-	-	-	-	-
Benzaldehyde	ug/kg	57 U	28 U	-	-	-	-	-
Benzo(a)anthracene	ug/kg	**1800 J**	**28**	-	-	-	-	-
Benzo(a)pyrene	ug/kg	**1300 J**	**23**	-	-	-	-	-
Benzo(b)fluoranthene	ug/kg	**1900 J**	**30**	-	-	-	-	-
Benzo(g,h,i)perylene	ug/kg	**670 J**	**18**	-	-	-	-	-
Benzo(k)fluoranthene	ug/kg	**680 J**	**15**	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	ug/kg	**37 J**	20 U	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	**1300 J**	61 U	-	-	-	-	-
Butyl benzylphthalate (BBP)	ug/kg	48 U	26 U	-	-	-	-	-
Carbazole	ug/kg	**490**	23 U	-	-	-	-	-
Chrysene	ug/kg	**1800 J**	**30**	-	-	-	-	-
Dibenz(a,h)anthracene	ug/kg	**250 J**	0.79 U	-	-	-	-	-
Dibenzofuran	ug/kg	**160 J**	16 U	-	-	-	-	-
Diethyl phthalate	ug/kg	76 U	37 U	-	-	-	-	-
Dimethyl phthalate	ug/kg	81 U	17 U	-	-	-	-	-
Di-n-butylphthalate (DBP)	ug/kg	71 U	26 U	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	ug/kg	38 U	34 U	-	-	-	-	-
Fluoranthene	ug/kg	**4300 J**	**62**	-	-	-	-	-
Fluorene	ug/kg	**270 J**	**5.8 J**	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/kg	**630 J**	**10**	-	-	-	-	-
Naphthalene	ug/kg	**150 J**	**8.9**	-	-	-	-	-
N-Nitrosodiphenylamine	ug/kg	100 U	14 U	-	-	-	-	-
Phenanthrene	ug/kg	**2600 J**	**49**	-	-	-	-	-
Phenol	ug/kg	35 U	9.6 U	-	-	-	-	-
Pyrene	ug/kg	**3400 J**	**51**	-	-	-	-	-
Metals								
Aluminum	mg/kg	**8300**	**12000**	-	-	-	-	-
Antimony	mg/kg	**41**	**1.9 J**	-	-	-	-	-
Arsenic	mg/kg	**26**	**11**	-	-	-	-	-
Barium	mg/kg	**860**	**110 J**	-	-	-	-	-
Beryllium	mg/kg	**0.78**	**0.72**	-	-	-	-	-
Cadmium	mg/kg	**21**	**0.43**	-	-	-	-	-
Calcium	mg/kg	**31000**	**11000**	-	-	-	-	-
Chromium	mg/kg	**110**	**14**	-	-	-	-	-
Chromium III (trivalent)	mg/kg	**110**	**14**	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	**6.1 J**	1.4 U	-	-	-	-	-
Cobalt	mg/kg	**21**	**7.2**	-	-	-	-	-
Copper	mg/kg	**1400**	**19**	-	-	-	-	-
Iron	mg/kg	**57000**	**20000**	-	-	-	-	-
Lead	mg/kg	**3500**	**28 J**	-	-	-	-	-
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH173-17**	**BH176-18**	**GP25-18**	**GP26-18**	**GP27-18**	**GP28-18**	**GP29-18**
Sample ID:		**S-38443-122117-JC-023**	**S-38443-051618-JC-072**	**S-38443-012918-JC-066**	**S-38443-012918-JC-065**	**S-38443-013018-JC-067**	**S-38443-013018-JC-068**	**S-38443-013018-JC-069**
Sample Date:		**12/21/2017**	**5/16/2018**	**1/29/2018**	**1/29/2018**	**1/30/2018**	**1/30/2018**	**1/30/2018**
Sample Depth:		**17.5-19.5 ft BGS**	**18-20 ft BGS**	**15-16 ft bgs**	**13.5-14.5 ft bgs**	**7-8 ft bgs**	**15-16 ft bgs**	**9-10 ft bgs**
		Duplicate						
Parameters	**Units**							
Magnesium	mg/kg	**10000**	**7200**	-	-	-	-	-
Manganese	mg/kg	**800**	**620**	-	-	-	-	-
Mercury	mg/kg	**1.5**	**0.032 J**	-	-	-	-	-
Nickel	mg/kg	**93**	**16**	-	-	-	-	-
Potassium	mg/kg	**1100**	**1100**	-	-	-	-	-
Selenium	mg/kg	**2.7**	**0.43 J**	-	-	-	-	-
Silver	mg/kg	**3.1**	**0.041 J**	-	-	-	-	-
Sodium	mg/kg	**450**	**65 J**	-	-	-	-	-
Thallium	mg/kg	**0.44**	**0.19 J**	-	-	-	-	-
Vanadium	mg/kg	**98**	**27**	-	-	-	-	-
Zinc	mg/kg	**1300**	**65**	-	-	-	-	-
PCBs								
Aroclor-1242 (PCB-1242)	ug/kg	23 U	23 U	-	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/kg	29 U	28 U	-	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/kg	**71 J**	27 U	-	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/kg	27 U	26 U	-	-	-	-	-
Pesticides								
4,4'-DDD	ug/kg	38 U	1.8 U	-	-	-	-	-
4,4'-DDE	ug/kg	14 U	1.8 U	-	-	-	-	-
4,4'-DDT	ug/kg	16 U	1.4 U	-	-	-	-	-
alpha-Chlordane	ug/kg	44 U	1.8 U	-	-	-	-	-
Dieldrin	ug/kg	10 U	1.3 U	-	-	-	-	-
Endosulfan I	ug/kg	15 U	1.4 U	-	-	-	-	-
Endosulfan II	ug/kg	21 U	1.8 U	-	-	-	-	-
Endosulfan sulfate	ug/kg	14 U	1.5 U	-	-	-	-	-
Endrin	ug/kg	16 U	2.3 U	-	-	-	-	-
Endrin aldehyde	ug/kg	21 U	1.6 U	-	-	-	-	-
Endrin ketone	ug/kg	13 U	1.1 U	-	-	-	-	-
gamma-BHC (lindane)	ug/kg	34 U	2.2 U	-	-	-	-	-
gamma-Chlordane	ug/kg	17 U	1.5 U	-	-	-	-	-
Heptachlor epoxide	ug/kg	28 U	1.7 U	-	-	-	-	-
Methoxychlor	ug/kg	14 U	7.9 U	-	-	-	-	-
Dioxin/Furans								
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH173-17**	**BH176-18**	**GP25-18**	**GP26-18**	**GP27-18**	**GP28-18**	**GP29-18**
Sample ID:		**S-38443-122117-JC-023**	**S-38443-051618-JC-072**	**S-38443-012918-JC-066**	**S-38443-012918-JC-065**	**S-38443-013018-JC-067**	**S-38443-013018-JC-068**	**S-38443-013018-JC-069**
Sample Date:		**12/21/2017**	**5/16/2018**	**1/29/2018**	**1/29/2018**	**1/30/2018**	**1/30/2018**	**1/30/2018**
Sample Depth:		**17.5-19.5 ft BGS**	**18-20 ft BGS**	**15-16 ft bgs**	**13.5-14.5 ft bgs**	**7-8 ft bgs**	**15-16 ft bgs**	**9-10 ft bgs**
		Duplicate						
Parameters	**Units**							
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-
Asbestos								
Chrysotile asbestos	%	-	-	-	-	-	-	-
Geotechnical								
Coarse sand	%	-	-	**8.5**	**5.0**	**18.3**	**2.8**	**5.0**
Fine sand	%	-	-	**25.4**	**10.5**	**21.5**	**41.9**	**56.9**
Fines	%	-	-	**34.1**	**50.3**	**18.4**	**9.9**	**12.0**
Gravel	%	-	-	**15.7**	**24.1**	**23.7**	**34.5**	**5.6**
Medium sand	%	-	-	**16.3**	**10.1**	**18.1**	**10.9**	**20.5**
Sand	%	-	-	**50.2**	**25.6**	**57.9**	**55.6**	**82.4**
Sieve, #4	% passed	-	-	**84.3**	**75.9**	**76.3**	**65.5**	**94.4**
Sieve, #10	% passed	-	-	**75.8**	**70.9**	**58.0**	**62.7**	**89.4**
Sieve, #20	% passed	-	-	**68.2**	**65.6**	**49.2**	**60.7**	**87.0**
Sieve, #40	% passed	-	-	**59.5**	**60.8**	**39.9**	**51.8**	**68.9**
Sieve, #60	% passed	-	-	**51.6**	**57.0**	**33.4**	**30.1**	**34.7**
Sieve, #80	% passed	-	-	**46.9**	**54.8**	**29.4**	**19.2**	**23.1**
Sieve, #100	% passed	-	-	**43.8**	**53.6**	**26.7**	**15.5**	**18.5**
Sieve, #200	% passed	-	-	**34.1**	**50.3**	**18.4**	**9.9**	**12.0**
Sieve, 0.375 inch	% passed	-	-	**94.6**	**80.0**	**87.6**	**69.4**	**97.6**
Sieve, 0.75 inch	% passed	-	-	**100.0**	**100.0**	**100.0**	**73.5**	**100.0**
Sieve, 1 inch	% passed	-	-	**100.0**	**100.0**	**100.0**	**84.6**	**100.0**
Sieve, 1.5 inch	% passed	-	-	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**
Sieve, 2 inch	% passed	-	-	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**
Sieve, 3 inch	% passed	-	-	**100.0**	**100.0**	**100.0**	**100.0**	**100.0**
General Chemistry								
Cyanide (total)	mg/kg	**0.41 J**	0.24 U	-	-	-	-	-
Fraction organic carbon (FOC)	%	-	-	**10.5**	**2.2**	**6.9**	**0.7**	**3.0**

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**BH173-17**	**BH176-18**	**GP25-18**	**GP26-18**	**GP27-18**	**GP28-18**	**GP29-18**
Sample ID:		**S-38443-122117-JC-023**	**S-38443-051618-JC-072**	**S-38443-012918-JC-066**	**S-38443-012918-JC-065**	**S-38443-013018-JC-067**	**S-38443-013018-JC-068**	**S-38443-013018-JC-069**
Sample Date:		**12/21/2017**	**5/16/2018**	**1/29/2018**	**1/29/2018**	**1/30/2018**	**1/30/2018**	**1/30/2018**
Sample Depth:		**17.5-19.5 ft BGS**	**18-20 ft BGS**	**15-16 ft bgs**	**13.5-14.5 ft bgs**	**7-8 ft bgs**	**15-16 ft bgs**	**9-10 ft bgs**
		Duplicate						
Parameters	**Units**							
Total solids	%	-	-	-	-	-	-	-

Notes
< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
D - Compounds at secondary dilution factor.
E - Estimated because of the presence of interference (Inorganics).
E - Exceed calibration range of GC/MS instrument (Organics).
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%. The
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**S1(EPA)**	**S3(EPA)**	**S4(EPA)**	**S5(EPA)**	**S6(EPA)**	**S7(EPA)**	**S8(EPA)**	**S9(EPA)**	**S11(EPA)**	**S01(OEPA)**	**S02(OEPA)**
Sample ID:		**S1**	**S3**	**S4**	**S5**	**S6**	**S7**	**S8**	**S9**	**S11**	**96-DV-03-S01**	**96-DV-03-S02**
Sample Date:		**10/23/1990**	**10/23/1990**	**10/23/1990**	**10/23/1990**	**10/23/1990**	**10/23/1990**	**10/23/1990**	**10/23/1990**	**10/23/1990**	**7/9/1996**	**7/9/1996**
Sample Depth:		**1-2 ft BGS**	**0-1 ft BGS**	**0-1 ft BGS**	**1-2 ft BGS**	**0-1 ft BGS**	**0-1 ft BGS**	**0-1 ft BGS**	**0-1 ft BGS**	**0-1 ft BGS**	**4-4.6 ft BGS**	**0-0.1 ft BGS**
Parameters	**Units**											
Volatiles												
1,1,1-Trichloroethane	ug/kg	-	-	-	-	-	-	-	-	-	12 U	10 U
1,1,2-Trichloroethane	ug/kg	-	-	-	-	-	-	-	-	-	12 U	10 U
1,1-Dichloroethane	ug/kg	-	-	-	-	-	-	-	-	-	12 U	10 U
1,1-Dichloroethene	ug/kg	-	-	-	-	-	-	-	-	-	12 U	10 U
1,2,4-Trichlorobenzene	ug/kg	-	-	-	-	-	-	-	-	-	410 U	340 U
1,2-Dichlorobenzene	ug/kg	-	-	-	-	-	-	-	-	-	410 U	340 U
1,2-Dichloroethene (total)	ug/kg	5 U	5 U	5 U	5 U	5 U	5 U	**200**	5 U	5 U	12 U	10 U
1,3-Dichlorobenzene	ug/kg	-	-	-	-	-	-	-	-	-	410 U	340 U
1,4-Dichlorobenzene	ug/kg	-	-	-	-	-	-	-	-	-	**140 J**	340 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	**2 J**	10 U	10 U	**1 J**	10 U	10 U	10 U	10 U	10 U	12 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	10 U	10 U	10 U	10 U	**36 J**	10 U	10 U	10 U	10 U	12 U	10 U
Acetone	ug/kg	5 U	5 U	5 U	5 U	**25 J**	5 U	5 U	5 U	5 U	12 U	10 U
Benzene	ug/kg	-	-	-	-	-	-	-	-	-	12 U	10 U
Carbon disulfide	ug/kg	-	-	-	-	-	-	-	-	-	12 U	10 U
Carbon tetrachloride	ug/kg	-	-	-	-	-	-	-	-	-	12 U	10 U
Chlorobenzene	ug/kg	-	-	-	-	-	-	-	-	-	12 U	10 U
Chloroethane	ug/kg	-	-	-	-	-	-	-	-	-	12 U	10 U
cis-1,2-Dichloroethene	ug/kg	-	-	-	-	-	-	-	-	-	-	-
Cyclohexane	ug/kg	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	ug/kg	-	-	-	-	-	-	-	-	-	12 U	10 U
Isopropyl benzene	ug/kg	-	-	-	-	-	-	-	-	-	-	-
Methyl acetate	ug/kg	-	-	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	ug/kg	-	-	-	-	-	-	-	-	-	-	-
Methyl tert butyl ether (MTBE)	ug/kg	-	-	-	-	-	-	-	-	-	-	-
Methylene chloride	ug/kg	-	-	-	-	-	-	-	-	-	12 JBU	16 BU
Styrene	ug/kg	-	-	-	-	-	-	-	-	-	12 U	10 U
Tetrachloroethene	ug/kg	5 U	5 U	5 U	5 U	5 U	5 U	**11**	5 U	5 U	**59**	10 U
Toluene	ug/kg	**3 J**	5 U	5 U	**7**	**9 J**	**4 J**	**2 J**	5 U	5 U	12 U	10 U
trans-1,2-Dichloroethene	ug/kg	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	ug/kg	5 U	5 U	5 U	5 U	5 U	5 U	**4 J**	5 U	5 U	12 U	10 U
Trichlorofluoromethane (CFC-11)	ug/kg	-	-	-	-	-	-	-	-	-	-	-
Trifluorotrichloroethane (CFC-113)	ug/kg	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	ug/kg	-	-	-	-	-	-	-	-	-	12 U	10 U
Xylenes (total)	ug/kg	5 U	5 U	5 U	5 U	**3 J**	5 U	5 U	5 U	5 U	12 U	10 U
Semi-Volatiles												
2,4-Dimethylphenol	ug/kg	-	-	-	-	-	-	-	-	-	410 U	340 U
2-Chlorophenol	ug/kg	-	-	-	-	-	-	-	-	-	410 U	340 U
2-Methylnaphthalene	ug/kg	**1800**	**500 J**	330 U	**950**	**130 J**	**750 J**	**190 J**	330 U	**240 J**	410 U	340 U
2-Methylphenol	ug/kg	-	-	-	-	-	-	-	-	-	410 U	340 U
3&4-Methylphenol	ug/kg	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	ug/kg	330 U	**680 J**	330 U	330 U	**1200**	**95 J**	330 U	330 U	330 U	410 U	340 U
Acenaphthylene	ug/kg	-	-	-	-	-	-	-	-	-	410 U	340 U
Acetophenone	ug/kg	-	-	-	-	-	-	-	-	-	-	-

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**S1(EPA)**	**S3(EPA)**	**S4(EPA)**	**S5(EPA)**	**S6(EPA)**	**S7(EPA)**	**S8(EPA)**	**S9(EPA)**	**S11(EPA)**	**S01(OEPA)**	**S02(OEPA)**
Sample ID:		**S1**	**S3**	**S4**	**S5**	**S6**	**S7**	**S8**	**S9**	**S11**	**96-DV-03-S01**	**96-DV-03-S02**
Sample Date:		**10/23/1990**	**10/23/1990**	**10/23/1990**	**10/23/1990**	**10/23/1990**	**10/23/1990**	**10/23/1990**	**10/23/1990**	**10/23/1990**	**7/9/1996**	**7/9/1996**
Sample Depth:		**1-2 ft BGS**	**0-1 ft BGS**	**0-1 ft BGS**	**1-2 ft BGS**	**0-1 ft BGS**	**0-1 ft BGS**	**0-1 ft BGS**	**0-1 ft BGS**	**0-1 ft BGS**	**4-4.6 ft BGS**	**0-0.1 ft BGS**
Parameters	**Units**											
Anthracene	ug/kg	**120 J**	**2900**	330 U	330 U	**3000**	**300 J**	330 U	330 U	330 U	410 U	340 U
Benzaldehyde	ug/kg	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	ug/kg	**310 J**	**8500**	330 U	**170 J**	**6900**	**1100**	330 U	330 U	**430 J**	410 U	340 U
Benzo(a)pyrene	ug/kg	**230 J**	**5700**	330 U	**150 J**	**4800**	**1100**	**150 J**	330 U	**220 J**	410 U	340 U
Benzo(b)fluoranthene	ug/kg	**230 J**	**9500**	330 U	**320 J**	**7800**	**2900**	**230 J**	**150 J**	**630 J**	410 U	340 U
Benzo(g,h,i)perylene	ug/kg	**150 J**	**4700**	330 U	**250 J**	**3600**	**910**	**170 J**	330 U	**310 J**	410 U	340 U
Benzo(k)fluoranthene	ug/kg	**430 J**	**6400**	330 U	330 U	**5500**	330 U	**300 J**	330 U	330 U	410 U	340 U
Biphenyl (1,1-Biphenyl)	ug/kg	-	-	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	330 U	**360 J**	330 U	330 U	330 U	330 U	330 U	330 U	330 U	**24 J**	**33 J**
Butyl benzylphthalate (BBP)	ug/kg	330 U	330 U	330 U	330 U	330 U	**950**	330 U	330 U	330 U	410 U	**25 J**
Carbazole	ug/kg	-	-	-	-	-	-	-	-	-	410 U	340 U
Chrysene	ug/kg	**380 J**	**5700 J**	330 U	**300 J**	**6400 J**	**1100 J**	**180 J**	330 U	**610 J**	410 U	340 U
Dibenz(a,h)anthracene	ug/kg	330 U	**1200**	330 U	330 U	**1600**	**230 J**	330 U	330 U	330 U	410 U	340 U
Dibenzofuran	ug/kg	**370 J**	**830 J**	330 U	**290 J**	**780 J**	**200 J**	330 U	330 U	330 U	410 U	340 U
Diethyl phthalate	ug/kg	-	-	-	-	-	-	-	-	-	410 U	340 U
Dimethyl phthalate	ug/kg	-	-	-	-	-	-	-	-	-	410 U	340 U
Di-n-butylphthalate (DBP)	ug/kg	330 U	330 U	330 U	330 U	330 U	**110 J**	330 U	330 U	330 U	410 U	**18 J**
Di-n-octyl phthalate (DnOP)	ug/kg	-	-	-	-	-	-	-	-	-	410 U	**23 J**
Fluoranthene	ug/kg	**680 J**	**12000**	330 U	**370 J**	**21000 D**	**2800**	**360 J**	**210 J**	**980 J**	410 U	**21 J**
Fluorene	ug/kg	330 U	**1500**	330 U	330 U	**1200**	**82 J**	330 U	330 U	330 U	410 U	340 U
Indeno(1,2,3-cd)pyrene	ug/kg	**96 J**	**5000**	330 U	**150 J**	**4100**	**910**	**160 J**	330 U	**270 J**	410 U	340 U
Naphthalene	ug/kg	**1100**	**290 J**	330 U	**500 J**	**260 J**	**450 J**	330 U	330 U	**150 J**	410 U	**20 J**
N-Nitrosodiphenylamine	ug/kg	330 U	**450 J**	330 U	330 U	330 U	330 U	330 U	330 U	330 U	410 U	340 U
Phenanthrene	ug/kg	**850 J**	**16000 D**	330 U	**980**	**14000**	**1500**	**170 J**	**210 J**	**540 J**	410 U	340 U
Phenol	ug/kg	-	-	-	-	-	-	-	-	-	410 U	340 U
Pyrene	ug/kg	**580 J**	**8100**	330 U	**300 J**	**13000**	**1900**	**290 J**	**180 J**	**710 J**	410 U	**20 J**
Metals												
Aluminum	mg/kg	**5730**	**4740**	**3360**	**1990**	**4620**	**2970**	**5350**	**11100**	**8460**	**3470**	**10400**
Antimony	mg/kg	2.4 U	**31.6**	2.4 U	2.4 U	2.4 U	**13.2 B**	2.4 U	**2.1 B**	**18.2 B**	0.75 U	**0.70 B**
Arsenic	mg/kg	**23.9**	**8.3**	**12.6**	**10.3**	**11.1**	**8.9**	**11.6**	**69.3**	**20.1**	**20.7**	**77.2**
Barium	mg/kg	**991**	**157**	**117**	**81**	**167**	**130**	**150**	**190**	**265**	**182**	**272**
Beryllium	mg/kg	**0.72 B**	**0.7 B**	**1.7**	**0.47 B**	**2**	**0.72 B**	**1.4 B**	**5.5**	**2.5**	**2.0**	**5.8**
Cadmium	mg/kg	**1.3**	**14**	1 U	**1 B**	1 U	**5.9**	**8.6**	1 U	**8.4**	**0.47 B**	**6.6**
Calcium	mg/kg	**33800**	**4790**	**1260**	**1710**	**2650**	**4460**	**4810**	**10000**	**34900**	**4060**	**5650**
Chromium	mg/kg	**18.5**	**91.7**	**6.3**	**11**	**8.6**	**20.6**	**43**	**23.2**	**30.4**	**5.5**	**23.6**
Chromium III (trivalent)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Cobalt	mg/kg	**3.7 B**	**5.6 B**	**8.8 B**	**5 B**	**8.2 B**	**5.2 B**	**6.2 B**	**22.1**	**10.9 B**	**6.0 B**	**16.2**
Copper	mg/kg	**66.8**	**2220 EJ**	**56.7 EJ**	**74.1 EJ**	**47.4 EJ**	**316 EJ**	**2200 EJ**	**76.6 EJ**	**796 EJ**	**26.8**	**91.8**
Iron	mg/kg	**15900 EJ**	**77000**	**2840**	**4230**	**5630**	**14800**	**48300**	**11100**	**25500**	**3240**	**9430**
Lead	mg/kg	**64.1**	**3300**	**10.4**	**59.3**	**15.9**	**474**	**1590**	**49.7**	**811**	**29.9**	**110**
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-	-	-	-	-

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**S1(EPA)**	**S3(EPA)**	**S4(EPA)**	**S5(EPA)**	**S6(EPA)**	**S7(EPA)**	**S8(EPA)**	**S9(EPA)**	**S11(EPA)**	**S01(OEPA)**	**S02(OEPA)**
Sample ID:		**S1**	**S3**	**S4**	**S5**	**S6**	**S7**	**S8**	**S9**	**S11**	**96-DV-03-S01**	**96-DV-03-S02**
Sample Date:		**10/23/1990**	**10/23/1990**	**10/23/1990**	**10/23/1990**	**10/23/1990**	**10/23/1990**	**10/23/1990**	**10/23/1990**	**10/23/1990**	**7/9/1996**	**7/9/1996**
Sample Depth:		**1-2 ft BGS**	**0-1 ft BGS**	**0-1 ft BGS**	**1-2 ft BGS**	**0-1 ft BGS**	**0-1 ft BGS**	**0-1 ft BGS**	**0-1 ft BGS**	**0-1 ft BGS**	**4-4.6 ft BGS**	**0-0.1 ft BGS**
Parameters	**Units**											
Magnesium	mg/kg	**6270**	**2660**	**294 B**	**439 B**	**537 B**	**2580**	**2230**	**3720**	**15500**	**1010 B**	**1480**
Manganese	mg/kg	**309**	**437**	**7.2**	**55.2**	**27**	**130**	**272**	**162**	**294**	**98.2**	**99.1**
Mercury	mg/kg	0.008 U	**0.31**	0.008 U	0.008 U	0.008 U	0.008 U	0.008 U	**0.3**	0.008 U	0.12 U	**0.48**
Nickel	mg/kg	**28.9**	**262**	**13.6**	**17.2**	**17.2**	**94.7**	**402**	**56.6**	**65.5**	**10.4**	**34.6**
Potassium	mg/kg	**729 B**	**569 B**	**364 B**	**329 B**	**429 B**	**232 B**	**1030 B**	**1630 B**	**915 B**	**611 B**	**1390**
Selenium	mg/kg	**2.2**	**0.91 B**	**1.6**	**2.2**	**1.7**	**2.4**	**1.1 BWJ**	**4.6**	**3.7**	**1.3**	**8.8**
Silver	mg/kg	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.25 U	0.21 U
Sodium	mg/kg	**157 B**	**114 B**	**118 B**	**43.7 B**	**81 B**	**64.4 B**	**338 B**	**272 B**	**239 B**	**276 B**	**364 B**
Thallium	mg/kg	2 U	2 U	2 U	2 U	2 U	2 U	2 U	**2 B**	**0.73 B**	1.0 U	**1.8 B**
Vanadium	mg/kg	**18.2**	**33.9**	**27.9**	**11.5 B**	**28.1**	**16**	**27.4**	**69.6**	**35.5**	**18.3**	**92.6**
Zinc	mg/kg	**112**	**2350**	**9.2**	**57.6**	**14.4**	**2210**	**1490**	**75.1**	**480**	**33.7**	**39.4**
PCBs												
Aroclor-1242 (PCB-1242)	ug/kg	-	-	-	-	-	-	-	-	-	41 U	34 U
Aroclor-1248 (PCB-1248)	ug/kg	**360 X**	80 U	80 U	**540 X**	80 U	80 U	80 U	80 U	80 U	41 U	34 U
Aroclor-1254 (PCB-1254)	ug/kg	-	-	-	-	-	-	-	-	-	41 U	34 U
Aroclor-1260 (PCB-1260)	ug/kg	**300 JX**	**580 JX**	160 U	**110 JX**	160 U	**1400 X**	160 U	160 U	**460 JX**	41 U	34 U
Pesticides												
4,4'-DDD	ug/kg	-	-	-	-	-	-	-	-	-	4.1 U	3.4 U
4,4'-DDE	ug/kg	-	-	-	-	-	-	-	-	-	4.1 U	3.4 U
4,4'-DDT	ug/kg	-	-	-	-	-	-	-	-	-	**0.6 PJ**	3.4 U
alpha-Chlordane	ug/kg	-	-	-	-	-	-	-	-	-	2.1 U	1.8 U
Dieldrin	ug/kg	-	-	-	-	-	-	-	-	-	4.1 U	3.4 U
Endosulfan I	ug/kg	-	-	-	-	-	-	-	-	-	2.1 U	1.8 U
Endosulfan II	ug/kg	-	-	-	-	-	-	-	-	-	4.1 U	3.4 U
Endosulfan sulfate	ug/kg	-	-	-	-	-	-	-	-	-	4.1 U	3.4 U
Endrin	ug/kg	-	-	-	-	-	-	-	-	-	**1.4 PJ**	3.4 U
Endrin aldehyde	ug/kg	-	-	-	-	-	-	-	-	-	**2.2 PJ**	3.4 U
Endrin ketone	ug/kg	-	-	-	-	-	-	-	-	-	4.1 U	3.4 U
gamma-BHC (lindane)	ug/kg	-	-	-	-	-	-	-	-	-	2.1 U	1.8 U
gamma-Chlordane	ug/kg	-	-	-	-	-	-	-	-	-	2.1 U	**0.35 PJ**
Heptachlor epoxide	ug/kg	-	-	-	-	-	-	-	-	-	2.1 U	1.8 U
Methoxychlor	ug/kg	-	-	-	-	-	-	-	-	-	21 U	18 U
Dioxin/Furans												
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**S1(EPA)**	**S3(EPA)**	**S4(EPA)**	**S5(EPA)**	**S6(EPA)**	**S7(EPA)**	**S8(EPA)**	**S9(EPA)**	**S11(EPA)**	**S01(OEPA)**	**S02(OEPA)**
Sample ID:		**S1**	**S3**	**S4**	**S5**	**S6**	**S7**	**S8**	**S9**	**S11**	**96-DV-03-S01**	**96-DV-03-S02**
Sample Date:		**10/23/1990**	**10/23/1990**	**10/23/1990**	**10/23/1990**	**10/23/1990**	**10/23/1990**	**10/23/1990**	**10/23/1990**	**10/23/1990**	**7/9/1996**	**7/9/1996**
Sample Depth:		**1-2 ft BGS**	**0-1 ft BGS**	**0-1 ft BGS**	**1-2 ft BGS**	**0-1 ft BGS**	**0-1 ft BGS**	**0-1 ft BGS**	**0-1 ft BGS**	**0-1 ft BGS**	**4-4.6 ft BGS**	**0-0.1 ft BGS**
Parameters	**Units**											
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Asbestos												
Chrysotile asbestos	%	-	-	-	-	-	-	-	-	-	-	-
Geotechnical												
Coarse sand	%	-	-	-	-	-	-	-	-	-	-	-
Fine sand	%	-	-	-	-	-	-	-	-	-	-	-
Fines	%	-	-	-	-	-	-	-	-	-	-	-
Gravel	%	-	-	-	-	-	-	-	-	-	-	-
Medium sand	%	-	-	-	-	-	-	-	-	-	-	-
Sand	%	-	-	-	-	-	-	-	-	-	-	-
Sieve, #4	% passed	-	-	-	-	-	-	-	-	-	-	-
Sieve, #10	% passed	-	-	-	-	-	-	-	-	-	-	-
Sieve, #20	% passed	-	-	-	-	-	-	-	-	-	-	-
Sieve, #40	% passed	-	-	-	-	-	-	-	-	-	-	-
Sieve, #60	% passed	-	-	-	-	-	-	-	-	-	-	-
Sieve, #80	% passed	-	-	-	-	-	-	-	-	-	-	-
Sieve, #100	% passed	-	-	-	-	-	-	-	-	-	-	-
Sieve, #200	% passed	-	-	-	-	-	-	-	-	-	-	-
Sieve, 0.375 inch	% passed	-	-	-	-	-	-	-	-	-	-	-
Sieve, 0.75 inch	% passed	-	-	-	-	-	-	-	-	-	-	-
Sieve, 1 inch	% passed	-	-	-	-	-	-	-	-	-	-	-
Sieve, 1.5 inch	% passed	-	-	-	-	-	-	-	-	-	-	-
Sieve, 2 inch	% passed	-	-	-	-	-	-	-	-	-	-	-
Sieve, 3 inch	% passed	-	-	-	-	-	-	-	-	-	-	-
General Chemistry												
Cyanide (total)	mg/kg	-	-	-	-	-	-	-	-	-	**0.27 B**	**0.26 B**
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-	-	-	-	-

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**S1(EPA)**	**S3(EPA)**	**S4(EPA)**	**S5(EPA)**	**S6(EPA)**	**S7(EPA)**	**S8(EPA)**	**S9(EPA)**	**S11(EPA)**	**S01(OEPA)**	**S02(OEPA)**
Sample ID:		**S1**	**S3**	**S4**	**S5**	**S6**	**S7**	**S8**	**S9**	**S11**	**96-DV-03-S01**	**96-DV-03-S02**
Sample Date:		**10/23/1990**	**10/23/1990**	**10/23/1990**	**10/23/1990**	**10/23/1990**	**10/23/1990**	**10/23/1990**	**10/23/1990**	**10/23/1990**	**7/9/1996**	**7/9/1996**
Sample Depth:		**1-2 ft BGS**	**0-1 ft BGS**	**0-1 ft BGS**	**1-2 ft BGS**	**0-1 ft BGS**	**0-1 ft BGS**	**0-1 ft BGS**	**0-1 ft BGS**	**0-1 ft BGS**	**4-4.6 ft BGS**	**0-0.1 ft BGS**
Parameters	**Units**											
Total solids	%	-	-	-	-	-	-	-	-	-	-	-

Notes
< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
D - Compounds at secondary dilution factor.
E - Estimated because of the presence of interference (Inorganics).
E - Exceed calibration range of GC/MS instrument (Organics).
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%. The
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**S04(OEPA)**	**S06(OEPA)**	**S09(OEPA)**	**S10(OEPA)**	**S11(OEPA)**	**SS-20**	**SS-21**	**SS-22**
Sample ID:		**96-DV-03-S04**	**96-DV-03-S06**	**96-DV-03-S09**	**96-DV-03-S10**	**96-DV-03-S11**	**S-38443-103117-BW-005**	**SS-38443-111918-JC-021**	**S-38443-110717-BW-029**
Sample Date:		**7/9/1996**	**7/9/1996**	**7/9/1996**	**7/9/1996**	**7/9/1996**	**10/31/2017**	**11/19/2018**	**11/7/2017**
Sample Depth:		**1.5-2 ft BGS**	**1.5-2.5 ft BGS**	**0.3-0.5 ft BGS**	**0-0.3 ft BGS**	**0.2-0.3 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**								
Volatiles									
1,1,1-Trichloroethane	ug/kg	16 U	16 U	11 U	12 U	11 U	**2.7 J**	1.4 U	0.42 U
1,1,2-Trichloroethane	ug/kg	16 U	16 U	11 U	12 U	11 U	R	1.9 U	0.72 U
1,1-Dichloroethane	ug/kg	16 U	16 U	11 U	12 U	11 U	R	1.1 U	0.61 U
1,1-Dichloroethene	ug/kg	16 U	16 U	11 U	12 U	11 U	R	1.5 U	0.99 U
1,2,4-Trichlorobenzene	ug/kg	520 U	530 U	350 U	400 U	360 U	R	R	0.44 U
1,2-Dichlorobenzene	ug/kg	520 U	530 U	350 U	400 U	360 U	R	R	0.40 U
1,2-Dichloroethene (total)	ug/kg	16 U	16 U	11 U	12 U	11 U	-	-	-
1,3-Dichlorobenzene	ug/kg	520 U	530 U	350 U	400 U	360 U	R	R	0.53 U
1,4-Dichlorobenzene	ug/kg	520 U	530 U	350 U	400 U	360 U	R	R	0.64 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	16 U	16 U	11 U	12 U	11 U	R	5.9 U	2.3 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	16 U	16 U	11 U	12 U	11 U	R	6.1 U	1.6 U
Acetone	ug/kg	16 U	16 U	11 U	12 U	11 U	R	35 U	19 U
Benzene	ug/kg	16 U	16 U	11 U	12 U	11 U	R	1.2 U	**0.86 J**
Carbon disulfide	ug/kg	16 U	16 U	11 U	12 U	11 U	**4.1 J**	1.9 U	0.39 U
Carbon tetrachloride	ug/kg	16 U	16 U	11 U	12 U	11 U	R	5.4 U	0.46 U
Chlorobenzene	ug/kg	16 U	16 U	11 U	12 U	11 U	R	1.5 U	0.61 U
Chloroethane	ug/kg	16 U	16 U	11 U	12 U	11 U	R	2.0 U	0.70 U
cis-1,2-Dichloroethene	ug/kg	-	-	-	-	-	R	1.1 U	0.51 U
Cyclohexane	ug/kg	-	-	-	-	-	R	2.3 U	0.39 U
Ethylbenzene	ug/kg	16 U	16 U	11 U	12 U	11 U	R	1.7 U	0.50 U
Isopropyl benzene	ug/kg	-	-	-	-	-	R	1.4 U	0.37 U
Methyl acetate	ug/kg	-	-	-	-	-	R	5.6 U	2.1 U
Methyl cyclohexane	ug/kg	-	-	-	-	-	R	2.0 U	0.42 U
Methyl tert butyl ether (MTBE)	ug/kg	-	-	-	-	-	R	1.4 U	0.50 U
Methylene chloride	ug/kg	16 JBU	16 JBU	11 JBU	12 JBU	17 BU	**4.1 J**	20 U	4.5 U
Styrene	ug/kg	16 U	16 U	11 U	12 U	11 U	R	1.9 U	0.50 U
Tetrachloroethene	ug/kg	16 U	16 U	11 U	12 U	11 U	**260 J**	1.2 U	0.68 U
Toluene	ug/kg	16 U	16 U	11 U	**4 J**	**7 J**	**1.3 J**	1.3 U	0.62 U
trans-1,2-Dichloroethene	ug/kg	-	-	-	-	-	R	0.77 U	0.70 U
Trichloroethene	ug/kg	16 U	16 U	11 U	12 U	11 U	**3.6 J**	1.0 U	0.75 U
Trichlorofluoromethane (CFC-11)	ug/kg	-	-	-	-	-	R	1.8 U	0.44 U
Trifluorotrichloroethane (CFC-113)	ug/kg	-	-	-	-	-	R	2.1 U	0.90 U
Vinyl chloride	ug/kg	16 U	16 U	11 U	12 U	11 U	R	1.4 U	0.51 U
Xylenes (total)	ug/kg	16 U	16 U	11 U	12 U	11 U	R	2.6 U	0.73 U
Semi-Volatiles									
2,4-Dimethylphenol	ug/kg	520 U	530 U	350 U	400 U	360 U	59 UJ	49 U	130 U
2-Chlorophenol	ug/kg	520 U	530 U	350 U	400 U	360 U	24 UJ	12 U	54 U
2-Methylnaphthalene	ug/kg	**77 J**	530 U	**49 J**	**46 J**	**74 J**	**800**	**1700 J**	**390**
2-Methylphenol	ug/kg	520 U	530 U	350 U	400 U	360 U	32 UJ	38 U	72 U
3&4-Methylphenol	ug/kg	-	-	-	-	-	59 UJ	36 U	**130 J**
Acenaphthene	ug/kg	**33 J**	530 U	350 U	400 U	**26 J**	2.2 U	**44**	5.0 U
Acenaphthylene	ug/kg	520 U	530 U	350 U	400 U	**50 J**	1.0 U	**57**	**30 J**
Acetophenone	ug/kg	-	-	-	-	-	**73 J**	**380**	**550 J**

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**S04(OEPA)**	**S06(OEPA)**	**S09(OEPA)**	**S10(OEPA)**	**S11(OEPA)**	**SS-20**	**SS-21**	**SS-22**
Sample ID:		**96-DV-03-S04**	**96-DV-03-S06**	**96-DV-03-S09**	**96-DV-03-S10**	**96-DV-03-S11**	**S-38443-103117-BW-005**	**SS-38443-111918-JC-021**	**S-38443-110717-BW-029**
Sample Date:		**7/9/1996**	**7/9/1996**	**7/9/1996**	**7/9/1996**	**7/9/1996**	**10/31/2017**	**11/19/2018**	**11/7/2017**
Sample Depth:		**1.5-2 ft BGS**	**1.5-2.5 ft BGS**	**0.3-0.5 ft BGS**	**0-0.3 ft BGS**	**0.2-0.3 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**								
Anthracene	ug/kg	**29 J**	530 U	**26 J**	400 U	**97 J**	**47**	**110**	**90**
Benzaldehyde	ug/kg	-	-	-	-	-	**61 J**	**290**	**420 J**
Benzo(a)anthracene	ug/kg	**41 J**	530 U	**180 J**	**51 J**	**950**	**200**	**480**	**170**
Benzo(a)pyrene	ug/kg	520 U	530 U	**110 J**	400 U	**1000**	**140**	**470**	**140**
Benzo(b)fluoranthene	ug/kg	520 U	530 U	**320 J**	**79 J**	**1300**	**330**	**960**	**220**
Benzo(g,h,i)perylene	ug/kg	520 U	530 U	350 U	400 U	**310 J**	**89**	**350**	**130**
Benzo(k)fluoranthene	ug/kg	520 U	530 U	**200 J**	**73 J**	**920**	**73**	**250**	**66**
Biphenyl (1,1-Biphenyl)	ug/kg	-	-	-	-	-	**59 J**	**150**	**180 J**
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	**540**	530 U	**2100**	**72 J**	**120 J**	**250**	**240 J**	**940**
Butyl benzylphthalate (BBP)	ug/kg	520 U	530 U	**18000 E**	**61 J**	360 U	**340**	**1200**	**1200**
Carbazole	ug/kg	520 U	530 U	350 U	400 U	**38 J**	79 U	**59 J**	180 U
Chrysene	ug/kg	**56 J**	530 U	**320 J**	**93 J**	**1000**	**240**	**610**	**200**
Dibenz(a,h)anthracene	ug/kg	520 U	530 U	350 U	400 U	**450**	1.9 U	**94**	4.3 U
Dibenzofuran	ug/kg	**28 J**	530 U	350 U	400 U	**29 J**	**260**	**420**	**180 J**
Diethyl phthalate	ug/kg	520 U	530 U	350 U	400 U	360 U	47 U	38 U	**140 J**
Dimethyl phthalate	ug/kg	520 U	530 U	350 U	400 U	360 U	50 U	17 U	110 U
Di-n-butylphthalate (DBP)	ug/kg	**28 J**	**31 J**	**1500**	**35 J**	360 U	**150 J**	**200**	**710**
Di-n-octyl phthalate (DnOP)	ug/kg	520 U	530 U	350 U	400 U	360 U	23 U	34 U	52 U
Fluoranthene	ug/kg	**140 J**	530 U	**340 J**	**100 J**	**1300**	**310**	**740**	**350**
Fluorene	ug/kg	520 U	530 U	350 U	400 U	**38 J**	1.6 U	**49**	**96**
Indeno(1,2,3-cd)pyrene	ug/kg	520 U	530 U	**120 J**	400 U	**910**	**58**	**260**	**95**
Naphthalene	ug/kg	**58 J**	530 U	**35 J**	**26 J**	**59 J**	**480**	**860**	**370**
N-Nitrosodiphenylamine	ug/kg	520 U	530 U	350 U	400 U	360 U	62 U	15 U	140 U
Phenanthrene	ug/kg	**170 J**	530 U	**180 J**	**100 J**	**570**	**580**	**1300**	**670**
Phenol	ug/kg	520 U	530 U	**64 J**	400 U	360 U	21 UJ	9.9 U	**220 J**
Pyrene	ug/kg	**160 J**	1300 U	**320 J**	**120 J**	**1600**	**320**	**710**	**370**
Metals									
Aluminum	mg/kg	**5290**	**6210**	**4970**	**8080**	**3290**	**4700 J**	**4500 J**	**12000**
Antimony	mg/kg	**1.0 B**	1.0 U	**2.9 B**	**8.4 B**	**2.1 B**	**21 J**	**2.2 J**	**52**
Arsenic	mg/kg	**27.0**	**49.7**	**36.0**	**15.4**	**6.6**	**60**	**11**	**15**
Barium	mg/kg	**222**	**320**	**824**	**318**	**93.8**	**440**	**150 J**	**750**
Beryllium	mg/kg	**3.1**	**3.3**	**2.6**	**1.9**	**1.1 B**	**5.3**	**0.29**	**0.78**
Cadmium	mg/kg	**0.38 B**	0.33 U	**3.9**	**16.3**	**1.4**	**5.3**	**3.5**	**34**
Calcium	mg/kg	**16400**	**2280**	**19800**	**48800**	**98000**	**2000**	**1800**	**25000**
Chromium	mg/kg	**14.0**	**16.5**	**50.7**	**43.2**	**18.7**	**24**	**13**	**110**
Chromium III (trivalent)	mg/kg	-	-	-	-	-	-	**13**	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-	1.5 U	-
Cobalt	mg/kg	**9.6 B**	**8.7 B**	**11.2**	**13.8**	**4.3 B**	**12**	**3.9**	**17**
Copper	mg/kg	**73.0**	**41.5**	**1680**	**191000**	**405**	**580**	**320 J**	**3200**
Iron	mg/kg	**5890**	**3120**	**13800**	**92300**	**16000**	**9200**	**7900**	**94000**
Lead	mg/kg	**97.0**	**18.2**	**1990**	**12100**	**242**	**370**	**210 J**	**13000**
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-	**6400**
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-	**4200**
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-	**5900**

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**S04(OEPA)**	**S06(OEPA)**	**S09(OEPA)**	**S10(OEPA)**	**S11(OEPA)**	**SS-20**	**SS-21**	**SS-22**
Sample ID:		**96-DV-03-S04**	**96-DV-03-S06**	**96-DV-03-S09**	**96-DV-03-S10**	**96-DV-03-S11**	**S-38443-103117-BW-005**	**SS-38443-111918-JC-021**	**S-38443-110717-BW-029**
Sample Date:		**7/9/1996**	**7/9/1996**	**7/9/1996**	**7/9/1996**	**7/9/1996**	**10/31/2017**	**11/19/2018**	**11/7/2017**
Sample Depth:		**1.5-2 ft BGS**	**1.5-2.5 ft BGS**	**0.3-0.5 ft BGS**	**0-0.3 ft BGS**	**0.2-0.3 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**								
Magnesium	mg/kg	**8070**	**596 B**	**18200**	**8860**	**36200**	**1500**	**580**	**8400**
Manganese	mg/kg	**72.8**	**45.2**	**236**	**693**	**344**	**47 J**	**76**	**600**
Mercury	mg/kg	0.14 U	0.17 U	**0.21**	0.13 U	0.11 U	**0.17**	**0.064 J**	**0.20**
Nickel	mg/kg	**20.0**	**16.6**	**85.0**	**139**	**24.2**	**38**	**36 J**	**120**
Potassium	mg/kg	**810 B**	**1230 B**	**685 B**	**763 B**	**599 B**	**430**	**470**	**1000**
Selenium	mg/kg	**6.3**	**8.6**	**2.8**	**2.6**	**0.93 B**	**5.1**	**1.2**	**1.5**
Silver	mg/kg	0.28 U	0.33 U	**0.90 B**	**7.6**	0.22 U	**0.46**	**0.19 J**	**4.1**
Sodium	mg/kg	**448 B**	**406 B**	**279 B**	**809 B**	**368 B**	100 U	59 U	**980**
Thallium	mg/kg	**1.7 B**	1.3 U	**1.5 B**	**4.5**	**1.3 B**	**1.8**	**0.13 J**	**0.41 J**
Vanadium	mg/kg	**47.7**	**61.9**	**33.6**	**28.1**	**15.6**	**44**	**9.1**	**29**
Zinc	mg/kg	**231**	**48.0**	**291**	**11500**	**159**	**390**	**810 J**	**2800**
PCBs									
Aroclor-1242 (PCB-1242)	ug/kg	52 U	53 U	35 U	40 U	36 U	29 U	**770**	**340**
Aroclor-1248 (PCB-1248)	ug/kg	52 U	53 U	35 U	40 U	36 U	25 U	150 U	22 U
Aroclor-1254 (PCB-1254)	ug/kg	52 U	53 U	**830**	**170 P**	36 U	**85**	**1100**	**660**
Aroclor-1260 (PCB-1260)	ug/kg	52 U	53 U	**1200**	40 U	36 U	26 U	140 U	23 U
Pesticides									
4,4'-DDD	ug/kg	5.2 U	5.3 U	3.5 U	4 U	**4.4**	24 U	36 U	86 U
4,4'-DDE	ug/kg	**2.6 J**	5.3 U	3.5 U	4 U	3.6 U	8.7 U	37 U	31 U
4,4'-DDT	ug/kg	5.2 U	5.3 U	3.5 U	4 U	3.6 U	10 U	28 U	37 U
alpha-Chlordane	ug/kg	**5.4 P**	2.7 U	1.8 U	2.1 U	1.8 U	28 U	37 U	99 U
Dieldrin	ug/kg	5.2 U	5.3 U	3.5 U	4 U	3.6 U	6.5 U	27 U	23 U
Endosulfan I	ug/kg	2.6 U	2.7 U	1.8 U	2.1 U	1.8 U	9.4 U	29 U	34 U
Endosulfan II	ug/kg	5.2 U	5.3 U	3.5 U	4 U	3.6 U	13 U	36 U	47 U
Endosulfan sulfate	ug/kg	5.2 U	5.3 U	3.5 U	4 U	3.6 U	8.7 U	31 U	31 U
Endrin	ug/kg	5.2 U	5.3 U	3.5 U	4 U	3.6 U	10 U	46 U	**39 NJ**
Endrin aldehyde	ug/kg	5.2 U	5.3 U	3.5 U	4 U	3.6 U	13 U	32 U	**110 J**
Endrin ketone	ug/kg	5.2 U	5.3 U	3.5 U	4 U	**7.5 P**	8.0 U	22 U	29 U
gamma-BHC (lindane)	ug/kg	2.6 U	2.7 U	1.8 U	**0.77 PJ**	**0.42 J**	21 U	44 U	76 U
gamma-Chlordane	ug/kg	**4.3**	2.7 U	1.8 U	2.1 U	**2.3 P**	11 U	30 U	39 U
Heptachlor epoxide	ug/kg	**0.78 PJ**	2.7 U	1.8 U	2.1 U	1.8 U	17 U	35 U	63 U
Methoxychlor	ug/kg	26 U	27 U	18 U	21 U	18 U	8.7 U	160 U	31 U
Dioxin/Furans									
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**S04(OEPA)**	**S06(OEPA)**	**S09(OEPA)**	**S10(OEPA)**	**S11(OEPA)**	**SS-20**	**SS-21**	**SS-22**
Sample ID:		**96-DV-03-S04**	**96-DV-03-S06**	**96-DV-03-S09**	**96-DV-03-S10**	**96-DV-03-S11**	**S-38443-103117-BW-005**	**SS-38443-111918-JC-021**	**S-38443-110717-BW-029**
Sample Date:		**7/9/1996**	**7/9/1996**	**7/9/1996**	**7/9/1996**	**7/9/1996**	**10/31/2017**	**11/19/2018**	**11/7/2017**
Sample Depth:		**1.5-2 ft BGS**	**1.5-2.5 ft BGS**	**0.3-0.5 ft BGS**	**0-0.3 ft BGS**	**0.2-0.3 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**								
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-	-
Asbestos									
Chrysotile asbestos	%	-	-	-	-	-	-	-	-
Geotechnical									
Coarse sand	%	-	-	-	-	-	-	-	-
Fine sand	%	-	-	-	-	-	-	-	-
Fines	%	-	-	-	-	-	-	-	-
Gravel	%	-	-	-	-	-	-	-	-
Medium sand	%	-	-	-	-	-	-	-	-
Sand	%	-	-	-	-	-	-	-	-
Sieve, #4	% passed	-	-	-	-	-	-	-	-
Sieve, #10	% passed	-	-	-	-	-	-	-	-
Sieve, #20	% passed	-	-	-	-	-	-	-	-
Sieve, #40	% passed	-	-	-	-	-	-	-	-
Sieve, #60	% passed	-	-	-	-	-	-	-	-
Sieve, #80	% passed	-	-	-	-	-	-	-	-
Sieve, #100	% passed	-	-	-	-	-	-	-	-
Sieve, #200	% passed	-	-	-	-	-	-	-	-
Sieve, 0.375 inch	% passed	-	-	-	-	-	-	-	-
Sieve, 0.75 inch	% passed	-	-	-	-	-	-	-	-
Sieve, 1 inch	% passed	-	-	-	-	-	-	-	-
Sieve, 1.5 inch	% passed	-	-	-	-	-	-	-	-
Sieve, 2 inch	% passed	-	-	-	-	-	-	-	-
Sieve, 3 inch	% passed	-	-	-	-	-	-	-	-
General Chemistry									
Cyanide (total)	mg/kg	**0.34 B**	**0.29 B**	**3.7**	**0.60 B**	**0.55**	0.68 U	**0.35 J**	0.59 UJ
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-	-

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**S04(OEPA)**	**S06(OEPA)**	**S09(OEPA)**	**S10(OEPA)**	**S11(OEPA)**	**SS-20**	**SS-21**	**SS-22**
Sample ID:		**96-DV-03-S04**	**96-DV-03-S06**	**96-DV-03-S09**	**96-DV-03-S10**	**96-DV-03-S11**	**S-38443-103117-BW-005**	**SS-38443-111918-JC-021**	**S-38443-110717-BW-029**
Sample Date:		**7/9/1996**	**7/9/1996**	**7/9/1996**	**7/9/1996**	**7/9/1996**	**10/31/2017**	**11/19/2018**	**11/7/2017**
Sample Depth:		**1.5-2 ft BGS**	**1.5-2.5 ft BGS**	**0.3-0.5 ft BGS**	**0-0.3 ft BGS**	**0.2-0.3 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**								
Total solids	%	-	-	-	-	-	-	-	-

Notes
< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
D - Compounds at secondary dilution factor.
E - Estimated because of the presence of interference (Inorganics).
E - Exceed calibration range of GC/MS instrument (Organics).
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%. The
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-23**	**SS-24**	**SS-29**	**SS-30**	**SS-31**	**SS-35**	**SS-36**
Sample ID:		**SS-38443-111918-JC-023**	**S-38443-110717-BW-026**	**S-38443-103117-BW-003**	**S-38443-110217-BW-019**	**S-38443-110217-BW-017**	**S-38443-103017-BW-001**	**S-38443-103117-BW-007**
Sample Date:		**11/19/2018**	**11/7/2017**	**10/31/2017**	**11/2/2017**	**11/2/2017**	**10/30/2017**	**10/31/2017**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/kg	1.1 U	**0.71 J**	0.64 U	0.25 U	0.34 U	0.27 U	0.31 U
1,1,2-Trichloroethane	ug/kg	1.5 U	0.98 U	1.1 U	0.42 U	0.58 U	0.47 U	0.52 U
1,1-Dichloroethane	ug/kg	0.94 U	0.83 U	0.91 U	0.36 U	0.49 U	0.39 U	0.44 U
1,1-Dichloroethene	ug/kg	1.2 U	1.4 U	1.5 U	0.58 U	0.80 U	0.64 U	0.72 U
1,2,4-Trichlorobenzene	ug/kg	0.78 U	0.61 U	R	0.26 U	0.36 U	0.29 U	0.32 U
1,2-Dichlorobenzene	ug/kg	1.5 U	0.56 U	R	0.24 U	0.33 U	0.26 U	0.29 U
1,2-Dichloroethene (total)	ug/kg	-	-	-	-	-	-	-
1,3-Dichlorobenzene	ug/kg	1.1 U	0.73 U	R	0.31 U	0.43 U	0.35 U	0.39 U
1,4-Dichlorobenzene	ug/kg	1.2 U	0.88 U	R	0.38 U	0.52 U	0.42 U	0.47 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	4.8 U	3.2 U	3.5 U	1.4 U	1.9 U	1.5 U	1.7 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	5.0 U	2.2 U	2.5 U	0.96 U	1.3 U	1.1 U	1.2 U
Acetone	ug/kg	29 U	16 U	8.5 U	3.3 U	4.5 U	3.7 U	4.1 U
Benzene	ug/kg	0.95 U	0.81 U	0.89 U	0.35 U	0.48 U	0.38 U	0.43 U
Carbon disulfide	ug/kg	1.6 U	0.53 U	0.58 U	0.23 U	0.31 U	0.25 U	0.28 U
Carbon tetrachloride	ug/kg	4.4 U	0.63 U	0.69 U	0.27 U	0.37 U	0.30 U	0.33 U
Chlorobenzene	ug/kg	1.2 U	0.83 U	0.91 U	0.36 U	0.49 U	0.39 U	0.44 U
Chloroethane	ug/kg	1.7 U	0.96 U	1.1 U	0.41 U	0.56 U	0.45 U	0.51 U
cis-1,2-Dichloroethene	ug/kg	0.88 U	0.71 U	0.77 U	0.30 U	0.42 U	0.33 U	0.37 U
Cyclohexane	ug/kg	1.9 U	0.53 U	0.58 U	0.23 U	0.31 U	0.25 U	0.28 U
Ethylbenzene	ug/kg	1.4 U	0.68 U	0.75 U	0.29 U	0.40 U	0.32 U	0.36 U
Isopropyl benzene	ug/kg	1.1 U	0.50 U	0.55 U	0.22 U	0.30 U	0.24 U	0.27 U
Methyl acetate	ug/kg	4.6 U	3.0 U	3.2 U	1.3 U	1.7 U	1.4 U	1.6 U
Methyl cyclohexane	ug/kg	1.7 U	0.58 U	0.64 U	0.25 U	0.34 U	0.27 U	0.31 U
Methyl tert butyl ether (MTBE)	ug/kg	1.1 U	0.68 U	0.75 U	0.29 U	0.40 U	0.32 U	0.36 U
Methylene chloride	ug/kg	16 U	11 U	0.66 U	0.26 U	0.36 U	0.29 U	0.32 U
Styrene	ug/kg	1.6 U	**0.90 J**	0.75 U	0.29 U	0.40 U	0.32 U	0.36 U
Tetrachloroethene	ug/kg	0.99 U	**2.8 J**	**1.1 J**	0.40 U	0.55 U	0.44 U	0.49 U
Toluene	ug/kg	1.1 U	0.86 U	**2.3 J**	0.37 U	0.50 U	0.41 U	0.45 U
trans-1,2-Dichloroethene	ug/kg	0.63 U	0.96 U	1.1 U	0.41 U	0.56 U	0.45 U	0.51 U
Trichloroethene	ug/kg	0.86 U	1.0 U	1.1 U	0.44 U	0.61 U	0.49 U	0.55 U
Trichlorofluoromethane (CFC-11)	ug/kg	1.5 U	0.61 U	0.66 U	0.26 U	0.36 U	0.29 U	0.32 U
Trifluorotrichloroethane (CFC-113)	ug/kg	1.7 U	1.2 U	1.4 U	0.53 U	0.73 U	0.59 U	0.65 U
Vinyl chloride	ug/kg	1.1 U	0.71 U	0.77 U	0.30 U	0.42 U	0.33 U	0.37 U
Xylenes (total)	ug/kg	2.2 U	1.0 U	1.1 U	0.43 U	0.59 U	0.48 U	0.53 U
Semi-Volatiles								
2,4-Dimethylphenol	ug/kg	49 U	95 U	28 U	23 U	22 U	22 U	22 U
2-Chlorophenol	ug/kg	12 U	39 U	12 U	9.6 U	9.2 U	9.1 U	8.9 U
2-Methylnaphthalene	ug/kg	**1300**	**470**	**630**	**19**	**4.1 J**	**11**	**16**
2-Methylphenol	ug/kg	38 U	52 U	15 U	13 U	12 U	12 U	12 U
3&4-Methylphenol	ug/kg	36 U	95 U	28 U	23 U	22 U	22 U	22 U
Acenaphthene	ug/kg	**24**	**51**	1.1 U	**11**	0.85 U	**16**	0.83 U
Acenaphthylene	ug/kg	**35**	**100**	0.49 U	**7.7 J**	0.39 U	**200**	**45**
Acetophenone	ug/kg	**120**	**67 J**	**52 J**	11 U	10 U	10 U	10 U

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-23**	**SS-24**	**SS-29**	**SS-30**	**SS-31**	**SS-35**	**SS-36**
Sample ID:		**SS-38443-111918-JC-023**	**S-38443-110717-BW-026**	**S-38443-103117-BW-003**	**S-38443-110217-BW-019**	**S-38443-110217-BW-017**	**S-38443-103017-BW-001**	**S-38443-103117-BW-007**
Sample Date:		**11/19/2018**	**11/7/2017**	**10/31/2017**	**11/2/2017**	**11/2/2017**	**10/30/2017**	**10/31/2017**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**							
Anthracene	ug/kg	**66**	**140**	**23**	**41**	**4.6 J**	**71**	**19**
Benzaldehyde	ug/kg	**140**	**76 J**	17 U	**16 J**	13 U	13 U	13 U
Benzo(a)anthracene	ug/kg	**260**	**850**	**120**	**220**	**23**	**430**	**160**
Benzo(a)pyrene	ug/kg	**230**	**1000**	**110**	**210**	**23**	**530**	**180**
Benzo(b)fluoranthene	ug/kg	**400**	**1500**	**240**	**350**	**33**	**560**	**340**
Benzo(g,h,i)perylene	ug/kg	**200**	**850**	**78**	**110**	**21**	**430**	**78**
Benzo(k)fluoranthene	ug/kg	**110**	**460**	**67**	**140**	**12**	**340**	**120**
Biphenyl (1,1-Biphenyl)	ug/kg	**86**	**60 J**	**49 J**	4.1 U	3.9 U	3.9 U	3.8 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	**88**	**440**	97 U	38 U	55 U	**75 J**	53 U
Butyl benzylphthalate (BBP)	ug/kg	**27 J**	48 U	14 U	12 U	11 U	11 U	11 U
Carbazole	ug/kg	**36 J**	130 U	38 U	31 U	30 U	**30 J**	29 U
Chrysene	ug/kg	**300**	**920**	**180**	**240**	**23**	**420**	**180**
Dibenz(a,h)anthracene	ug/kg	**50**	**210**	0.93 U	0.77 U	0.74 U	**110**	0.72 U
Dibenzofuran	ug/kg	**320**	**170 J**	**180**	**10 J**	0.74 U	**11 J**	0.72 U
Diethyl phthalate	ug/kg	38 U	76 U	23 U	19 U	18 U	18 U	17 U
Dimethyl phthalate	ug/kg	17 U	81 U	24 U	20 U	19 U	19 U	19 U
Di-n-butylphthalate (DBP)	ug/kg	31 U	**140 J**	**44 J**	17 U	17 U	17 U	**31 J**
Di-n-octyl phthalate (DnOP)	ug/kg	35 U	38 U	11 U	9.2 U	8.8 U	8.8 U	8.6 U
Fluoranthene	ug/kg	**420**	**1300**	**200**	**470**	**34**	**650**	**210**
Fluorene	ug/kg	3.4 U	**40**	0.75 U	**13**	0.59 U	**21**	0.58 U
Indeno(1,2,3-cd)pyrene	ug/kg	**140**	**690**	**47**	**110**	**18**	**390**	**79**
Naphthalene	ug/kg	**850**	**330**	**400**	**15**	0.92 U	**15**	**11**
N-Nitrosodiphenylamine	ug/kg	15 U	100 U	30 U	24 U	24 U	23 U	23 U
Phenanthrene	ug/kg	**660**	**700**	**440**	**220**	**18**	**220**	**62**
Phenol	ug/kg	9.9 U	35 U	10 U	8.5 U	8.2 U	8.1 U	8.0 U
Pyrene	ug/kg	**380**	**1200**	**200**	**450**	**32**	**610**	**220**
Metals								
Aluminum	mg/kg	**3900 J**	**7600**	**2800 J**	**7800 J**	**4700 J**	**7700 J**	**3400 J**
Antimony	mg/kg	**30 J**	**39**	**0.68 J**	0.25 UJ	0.17 UJ	**0.41 J**	**0.24 J**
Arsenic	mg/kg	**10**	**10**	**4.0**	**8.0**	**4.4**	**8.3**	**5.4**
Barium	mg/kg	**270 J**	**190**	**88**	**56**	**87**	**170**	**45**
Beryllium	mg/kg	**0.56**	**0.51**	**0.58**	**0.51**	**0.50**	**0.45**	**0.25**
Cadmium	mg/kg	**2.2**	**8.0**	**0.34**	**0.27**	0.17 U	**0.44**	**0.25**
Calcium	mg/kg	**51000**	**62000**	**15000**	**43000**	**110000**	**60000**	**100000**
Chromium	mg/kg	**22**	**35**	**7.9**	**13**	**8.5**	**14**	**6.3**
Chromium III (trivalent)	mg/kg	**22**	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	0.60 U	-	-	-	-	-	-
Cobalt	mg/kg	**7.3**	**7.7**	**4.3**	**6.4**	**3.6**	**7.2**	**2.9**
Copper	mg/kg	**320 J**	**750**	**37**	**19**	**17**	**44**	**75**
Iron	mg/kg	**19000**	**32000**	**5900**	**16000**	**8900**	**15000**	**8200**
Lead	mg/kg	**360 J**	**1900**	**46**	**17**	**53**	**120**	**42**
Lead - coarse fraction	mg/kg	**240 J**	-	-	-	**59**	-	-
Lead - fine fraction	mg/kg	**360**	-	-	-	**120**	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	**260**	-	-	-	**70**	-	-

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-23**	**SS-24**	**SS-29**	**SS-30**	**SS-31**	**SS-35**	**SS-36**
Sample ID:		**SS-38443-111918-JC-023**	**S-38443-110717-BW-026**	**S-38443-103117-BW-003**	**S-38443-110217-BW-019**	**S-38443-110217-BW-017**	**S-38443-103017-BW-001**	**S-38443-103117-BW-007**
Sample Date:		**11/19/2018**	**11/7/2017**	**10/31/2017**	**11/2/2017**	**11/2/2017**	**10/30/2017**	**10/31/2017**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**							
Magnesium	mg/kg	**23000**	**28000**	**7400**	**19000**	**39000**	**21000**	**42000**
Manganese	mg/kg	**270**	**530**	**100 J**	**480**	**360**	**620 J**	**260 J**
Mercury	mg/kg	**0.12 J**	**0.45**	**0.049 J**	**0.045 J**	**0.30**	**0.052 J**	**0.053 J**
Nickel	mg/kg	**170 J**	**94**	**11**	**15**	**9.7**	**14**	**7.3**
Potassium	mg/kg	**690**	**730**	**450**	**890**	**600**	**800**	**590**
Selenium	mg/kg	**1.6**	0.87 U	1.3 U	**0.75 J**	**0.46 J**	**1.5**	0.82 U
Silver	mg/kg	**0.60**	**1.3**	**0.072 J**	**0.041 J**	**0.067 J**	**0.078 J**	**0.060 J**
Sodium	mg/kg	**120 J**	**300**	97 U	85 U	130 U	86 U	120 U
Thallium	mg/kg	**0.30**	**0.20 J**	**0.13 J**	**0.19 J**	**0.12 J**	**0.18 J**	**0.10 J**
Vanadium	mg/kg	**21**	**21**	**12**	**20**	**13**	**21**	**11**
Zinc	mg/kg	**430 J**	**1200**	**43**	**58**	**46**	**110**	**86**
PCBs								
Aroclor-1242 (PCB-1242)	ug/kg	23 U	480 U	28 U	23 U	23 U	23 U	22 UJ
Aroclor-1248 (PCB-1248)	ug/kg	30 U	410 U	24 U	20 U	19 U	20 U	19 UJ
Aroclor-1254 (PCB-1254)	ug/kg	**110**	**29000**	**84**	**28 J**	16 U	**52 J**	**75**
Aroclor-1260 (PCB-1260)	ug/kg	27 U	430 U	25 U	21 U	21 U	21 U	20 U
Pesticides								
4,4'-DDD	ug/kg	**28 J**	200 U	24 U	3.8 U	19 U	3.7 U	3.6 U
4,4'-DDE	ug/kg	19 U	72 U	8.7 U	1.4 U	6.8 U	1.3 U	1.3 U
4,4'-DDT	ug/kg	14 U	84 U	10 U	1.6 U	8.0 U	**3.4 J**	**3.8 J**
alpha-Chlordane	ug/kg	18 U	230 U	28 U	4.4 U	22 U	4.3 U	4.1 U
Dieldrin	ug/kg	14 U	54 U	6.5 U	1.0 U	5.1 U	1.0 U	0.98 U
Endosulfan I	ug/kg	15 U	78 U	9.4 U	1.5 U	7.4 U	1.5 U	1.4 U
Endosulfan II	ug/kg	18 U	110 U	13 U	2.1 U	10 U	2.0 U	2.0 U
Endosulfan sulfate	ug/kg	16 U	72 U	8.7 U	1.4 U	6.8 U	**1.7 J**	1.3 U
Endrin	ug/kg	23 U	**140 NJ**	10 U	1.6 U	8.0 U	1.6 U	1.5 U
Endrin aldehyde	ug/kg	16 U	110 UJ	13 U	2.1 U	10 U	2.0 U	2.0 U
Endrin ketone	ug/kg	11 U	66 U	8.0 U	1.3 U	6.2 U	1.2 U	1.2 U
gamma-BHC (lindane)	ug/kg	22 U	170 U	21 U	3.4 U	16 U	3.3 U	3.2 U
gamma-Chlordane	ug/kg	15 U	90 U	11 U	1.7 U	8.5 U	1.7 U	1.6 U
Heptachlor epoxide	ug/kg	18 U	140 U	17 U	2.8 U	14 U	2.7 U	2.6 U
Methoxychlor	ug/kg	81 U	72 U	8.7 U	**2.8 J**	6.8 U	1.3 U	1.3 U
Dioxin/Furans								
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	**14**	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	**180**	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	**8.4**	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	**19**	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	0.13 U	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	**1.3 J**	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	**0.55 J**	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	**1.7 J**	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	**1.4 J**	-

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-23**	**SS-24**	**SS-29**	**SS-30**	**SS-31**	**SS-35**	**SS-36**
Sample ID:		**SS-38443-111918-JC-023**	**S-38443-110717-BW-026**	**S-38443-103117-BW-003**	**S-38443-110217-BW-019**	**S-38443-110217-BW-017**	**S-38443-103017-BW-001**	**S-38443-103117-BW-007**
Sample Date:		**11/19/2018**	**11/7/2017**	**10/31/2017**	**11/2/2017**	**11/2/2017**	**10/30/2017**	**10/31/2017**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**							
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	0.20 U	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	**1.3 J**	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	**0.28 J**	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	**0.79 J**	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	**1.1 J**	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	**0.90 J**	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	**0.89 J**	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	**0.17 J**	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	**20 J**	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	**40 J**	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	**33 J**	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	**12 J**	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	**54 J**	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	**24 J**	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	**59 J**	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	**2.0 J**	-
Asbestos								
Chrysotile asbestos	%	-	-	-	-	-	-	-
Geotechnical								
Coarse sand	%	-	-	-	-	-	-	-
Fine sand	%	-	-	-	-	-	-	-
Fines	%	-	-	-	-	-	-	-
Gravel	%	-	-	-	-	-	-	-
Medium sand	%	-	-	-	-	-	-	-
Sand	%	-	-	-	-	-	-	-
Sieve, #4	% passed	-	-	-	-	-	-	-
Sieve, #10	% passed	-	-	-	-	-	-	-
Sieve, #20	% passed	-	-	-	-	-	-	-
Sieve, #40	% passed	-	-	-	-	-	-	-
Sieve, #60	% passed	-	-	-	-	-	-	-
Sieve, #80	% passed	-	-	-	-	-	-	-
Sieve, #100	% passed	-	-	-	-	-	-	-
Sieve, #200	% passed	-	-	-	-	-	-	-
Sieve, 0.375 inch	% passed	-	-	-	-	-	-	-
Sieve, 0.75 inch	% passed	-	-	-	-	-	-	-
Sieve, 1 inch	% passed	-	-	-	-	-	-	-
Sieve, 1.5 inch	% passed	-	-	-	-	-	-	-
Sieve, 2 inch	% passed	-	-	-	-	-	-	-
Sieve, 3 inch	% passed	-	-	-	-	-	-	-
General Chemistry								
Cyanide (total)	mg/kg	0.24 U	0.51 UJ	0.60 U	0.53 U	0.52 U	0.47 U	0.48 U
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-23**	**SS-24**	**SS-29**	**SS-30**	**SS-31**	**SS-35**	**SS-36**
Sample ID:		**SS-38443-111918-JC-023**	**S-38443-110717-BW-026**	**S-38443-103117-BW-003**	**S-38443-110217-BW-019**	**S-38443-110217-BW-017**	**S-38443-103017-BW-001**	**S-38443-103117-BW-007**
Sample Date:		**11/19/2018**	**11/7/2017**	**10/31/2017**	**11/2/2017**	**11/2/2017**	**10/30/2017**	**10/31/2017**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**							
Total solids	%	-	-	-	-	-	-	-

Notes
< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
D - Compounds at secondary dilution factor.
E - Estimated because of the presence of interference (Inorganics).
E - Exceed calibration range of GC/MS instrument (Organics).
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%. The
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-106**	**SS-107**	**SS-108 (SS-22/TT-32)**	**SS-110 (SS-31/TT39)**	**SS-110 (SS-31/TT39)**	**SS-111 (SS-30/TT-38)**
Sample ID:		**SS-38443-111918-JC-106**	**SS-38443-111918-JC-107**	**SS-38443-111618-JC-108**	**SS-38443-111918-JC-110**	**SS-38443-111918-JC-126**	**SS-38443-111618-JC-111**
Sample Date:		**11/19/2018**	**11/19/2018**	**11/16/2018**	**11/19/2018**	**11/19/2018**	**11/16/2018**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
						Duplicate	
Parameters	**Units**						
Volatiles							
1,1,1-Trichloroethane	ug/kg	-	-	-	-	-	-
1,1,2-Trichloroethane	ug/kg	-	-	-	-	-	-
1,1-Dichloroethane	ug/kg	-	-	-	-	-	-
1,1-Dichloroethene	ug/kg	-	-	-	-	-	-
1,2,4-Trichlorobenzene	ug/kg	-	-	-	-	-	-
1,2-Dichlorobenzene	ug/kg	-	-	-	-	-	-
1,2-Dichloroethene (total)	ug/kg	-	-	-	-	-	-
1,3-Dichlorobenzene	ug/kg	-	-	-	-	-	-
1,4-Dichlorobenzene	ug/kg	-	-	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	-	-	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	-	-	-	-	-	-
Acetone	ug/kg	-	-	-	-	-	-
Benzene	ug/kg	-	-	-	-	-	-
Carbon disulfide	ug/kg	-	-	-	-	-	-
Carbon tetrachloride	ug/kg	-	-	-	-	-	-
Chlorobenzene	ug/kg	-	-	-	-	-	-
Chloroethane	ug/kg	-	-	-	-	-	-
cis-1,2-Dichloroethene	ug/kg	-	-	-	-	-	-
Cyclohexane	ug/kg	-	-	-	-	-	-
Ethylbenzene	ug/kg	-	-	-	-	-	-
Isopropyl benzene	ug/kg	-	-	-	-	-	-
Methyl acetate	ug/kg	-	-	-	-	-	-
Methyl cyclohexane	ug/kg	-	-	-	-	-	-
Methyl tert butyl ether (MTBE)	ug/kg	-	-	-	-	-	-
Methylene chloride	ug/kg	-	-	-	-	-	-
Styrene	ug/kg	-	-	-	-	-	-
Tetrachloroethene	ug/kg	-	-	-	-	-	-
Toluene	ug/kg	-	-	-	-	-	-
trans-1,2-Dichloroethene	ug/kg	-	-	-	-	-	-
Trichloroethene	ug/kg	-	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	ug/kg	-	-	-	-	-	-
Trifluorotrichloroethane (CFC-113)	ug/kg	-	-	-	-	-	-
Vinyl chloride	ug/kg	-	-	-	-	-	-
Xylenes (total)	ug/kg	-	-	-	-	-	-
Semi-Volatiles							
2,4-Dimethylphenol	ug/kg	-	-	-	-	-	-
2-Chlorophenol	ug/kg	-	-	-	-	-	-
2-Methylnaphthalene	ug/kg	-	-	-	-	-	-
2-Methylphenol	ug/kg	-	-	-	-	-	-
3&4-Methylphenol	ug/kg	-	-	-	-	-	-
Acenaphthene	ug/kg	-	-	-	-	-	-
Acenaphthylene	ug/kg	-	-	-	-	-	-
Acetophenone	ug/kg	-	-	-	-	-	-

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-106**	**SS-107**	**SS-108 (SS-22/TT-32)**	**SS-110 (SS-31/TT39)**	**SS-110 (SS-31/TT39)**	**SS-111 (SS-30/TT-38)**
Sample ID:		**SS-38443-111918-JC-106**	**SS-38443-111918-JC-107**	**SS-38443-111618-JC-108**	**SS-38443-111918-JC-110**	**SS-38443-111918-JC-126**	**SS-38443-111618-JC-111**
Sample Date:		**11/19/2018**	**11/19/2018**	**11/16/2018**	**11/19/2018**	**11/19/2018**	**11/16/2018**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
						Duplicate	
Parameters	**Units**						
Anthracene	ug/kg	-	-	-	-	-	-
Benzaldehyde	ug/kg	-	-	-	-	-	-
Benzo(a)anthracene	ug/kg	-	-	-	-	-	-
Benzo(a)pyrene	ug/kg	-	-	-	-	-	-
Benzo(b)fluoranthene	ug/kg	-	-	-	-	-	-
Benzo(g,h,i)perylene	ug/kg	-	-	-	-	-	-
Benzo(k)fluoranthene	ug/kg	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	ug/kg	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	ug/kg	-	-	-	-	-	-
Carbazole	ug/kg	-	-	-	-	-	-
Chrysene	ug/kg	-	-	-	-	-	-
Dibenz(a,h)anthracene	ug/kg	-	-	-	-	-	-
Dibenzofuran	ug/kg	-	-	-	-	-	-
Diethyl phthalate	ug/kg	-	-	-	-	-	-
Dimethyl phthalate	ug/kg	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	ug/kg	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	ug/kg	-	-	-	-	-	-
Fluoranthene	ug/kg	-	-	-	-	-	-
Fluorene	ug/kg	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/kg	-	-	-	-	-	-
Naphthalene	ug/kg	-	-	-	-	-	-
N-Nitrosodiphenylamine	ug/kg	-	-	-	-	-	-
Phenanthrene	ug/kg	-	-	-	-	-	-
Phenol	ug/kg	-	-	-	-	-	-
Pyrene	ug/kg	-	-	-	-	-	-
Metals							
Aluminum	mg/kg	-	-	-	-	-	-
Antimony	mg/kg	-	-	-	-	-	-
Arsenic	mg/kg	-	-	-	-	-	-
Barium	mg/kg	-	-	-	-	-	-
Beryllium	mg/kg	-	-	-	-	-	-
Cadmium	mg/kg	-	-	-	-	-	-
Calcium	mg/kg	-	-	-	-	-	-
Chromium	mg/kg	-	-	-	-	-	-
Chromium III (trivalent)	mg/kg	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-
Cobalt	mg/kg	-	-	-	-	-	-
Copper	mg/kg	-	-	-	-	-	-
Iron	mg/kg	-	-	-	-	-	-
Lead	mg/kg	-	-	-	-	-	-
Lead - coarse fraction	mg/kg	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-106**	**SS-107**	**SS-108 (SS-22/TT-32)**	**SS-110 (SS-31/TT39)**	**SS-110 (SS-31/TT39)**	**SS-111 (SS-30/TT-38)**
Sample ID:		**SS-38443-111918-JC-106**	**SS-38443-111918-JC-107**	**SS-38443-111618-JC-108**	**SS-38443-111918-JC-110**	**SS-38443-111918-JC-126**	**SS-38443-111618-JC-111**
Sample Date:		**11/19/2018**	**11/19/2018**	**11/16/2018**	**11/19/2018**	**11/19/2018**	**11/16/2018**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
						Duplicate	
Parameters	**Units**						
Magnesium	mg/kg	-	-	-	-	-	-
Manganese	mg/kg	-	-	-	-	-	-
Mercury	mg/kg	-	-	-	-	-	-
Nickel	mg/kg	-	-	-	-	-	-
Potassium	mg/kg	-	-	-	-	-	-
Selenium	mg/kg	-	-	-	-	-	-
Silver	mg/kg	-	-	-	-	-	-
Sodium	mg/kg	-	-	-	-	-	-
Thallium	mg/kg	-	-	-	-	-	-
Vanadium	mg/kg	-	-	-	-	-	-
Zinc	mg/kg	-	-	-	-	-	-
PCBs							
Aroclor-1242 (PCB-1242)	ug/kg	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/kg	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/kg	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/kg	-	-	-	-	-	-
Pesticides							
4,4'-DDD	ug/kg	-	-	-	-	-	-
4,4'-DDE	ug/kg	-	-	-	-	-	-
4,4'-DDT	ug/kg	-	-	-	-	-	-
alpha-Chlordane	ug/kg	-	-	-	-	-	-
Dieldrin	ug/kg	-	-	-	-	-	-
Endosulfan I	ug/kg	-	-	-	-	-	-
Endosulfan II	ug/kg	-	-	-	-	-	-
Endosulfan sulfate	ug/kg	-	-	-	-	-	-
Endrin	ug/kg	-	-	-	-	-	-
Endrin aldehyde	ug/kg	-	-	-	-	-	-
Endrin ketone	ug/kg	-	-	-	-	-	-
gamma-BHC (lindane)	ug/kg	-	-	-	-	-	-
gamma-Chlordane	ug/kg	-	-	-	-	-	-
Heptachlor epoxide	ug/kg	-	-	-	-	-	-
Methoxychlor	ug/kg	-	-	-	-	-	-
Dioxin/Furans							
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-106**	**SS-107**	**SS-108 (SS-22/TT-32)**	**SS-110 (SS-31/TT39)**	**SS-110 (SS-31/TT39)**	**SS-111 (SS-30/TT-38)**
Sample ID:		**SS-38443-111918-JC-106**	**SS-38443-111918-JC-107**	**SS-38443-111618-JC-108**	**SS-38443-111918-JC-110**	**SS-38443-111918-JC-126**	**SS-38443-111618-JC-111**
Sample Date:		**11/19/2018**	**11/19/2018**	**11/16/2018**	**11/19/2018**	**11/19/2018**	**11/16/2018**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
						Duplicate	
Parameters	**Units**						
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-
Asbestos							
Chrysotile asbestos	%	-	-	-	-	-	-
Geotechnical							
Coarse sand	%	-	-	-	-	-	-
Fine sand	%	-	-	-	-	-	-
Fines	%	-	-	-	-	-	-
Gravel	%	-	-	-	-	-	-
Medium sand	%	-	-	-	-	-	-
Sand	%	-	-	-	-	-	-
Sieve, #4	% passed	-	-	-	-	-	-
Sieve, #10	% passed	-	-	-	-	-	-
Sieve, #20	% passed	-	-	-	-	-	-
Sieve, #40	% passed	-	-	-	-	-	-
Sieve, #60	% passed	-	-	-	-	-	-
Sieve, #80	% passed	-	-	-	-	-	-
Sieve, #100	% passed	-	-	-	-	-	-
Sieve, #200	% passed	-	-	-	-	-	-
Sieve, 0.375 inch	% passed	-	-	-	-	-	-
Sieve, 0.75 inch	% passed	-	-	-	-	-	-
Sieve, 1 inch	% passed	-	-	-	-	-	-
Sieve, 1.5 inch	% passed	-	-	-	-	-	-
Sieve, 2 inch	% passed	-	-	-	-	-	-
Sieve, 3 inch	% passed	-	-	-	-	-	-
General Chemistry							
Cyanide (total)	mg/kg	-	-	-	-	-	-
Fraction organic carbon (FOC)	%	-	-	-	-	-	-

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-106**	**SS-107**	**SS-108 (SS-22/TT-32)**	**SS-110 (SS-31/TT39)**	**SS-110 (SS-31/TT39)**	**SS-111 (SS-30/TT-38)**
Sample ID:		**SS-38443-111918-JC-106**	**SS-38443-111918-JC-107**	**SS-38443-111618-JC-108**	**SS-38443-111918-JC-110**	**SS-38443-111918-JC-126**	**SS-38443-111618-JC-111**
Sample Date:		**11/19/2018**	**11/19/2018**	**11/16/2018**	**11/19/2018**	**11/19/2018**	**11/16/2018**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
						Duplicate	
Parameters	**Units**						
Total solids	%	-	-	-	-	-	-

Notes
< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
D - Compounds at secondary dilution factor.
E - Estimated because of the presence of interference (Inorganics).
E - Exceed calibration range of GC/MS instrument (Organics).
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%. The
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-113 (SS-35/TP-15)**	**SS-181-AS**	**SS-182-AS**	**SS-183-AS**	**SS-184-AS**	**SS-185-AS**
Sample ID:		**SS-38443-111618-JC-113**	**SS-38443-111918-JC-181**	**SS-38443-111918-JC-182**	**SS-38443-111618-JC-183**	**SS-38443-111618-JC-184**	**SS-38443-111618-JC-185**
Sample Date:		**11/16/2018**	**11/19/2018**	**11/19/2018**	**11/16/2018**	**11/16/2018**	**11/16/2018**
Sample Depth:		**0-2 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**
Parameters	**Units**						
Volatiles							
1,1,1-Trichloroethane	ug/kg	-	-	-	-	-	-
1,1,2-Trichloroethane	ug/kg	-	-	-	-	-	-
1,1-Dichloroethane	ug/kg	-	-	-	-	-	-
1,1-Dichloroethene	ug/kg	-	-	-	-	-	-
1,2,4-Trichlorobenzene	ug/kg	-	-	-	-	-	-
1,2-Dichlorobenzene	ug/kg	-	-	-	-	-	-
1,2-Dichloroethene (total)	ug/kg	-	-	-	-	-	-
1,3-Dichlorobenzene	ug/kg	-	-	-	-	-	-
1,4-Dichlorobenzene	ug/kg	-	-	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	-	-	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	-	-	-	-	-	-
Acetone	ug/kg	-	-	-	-	-	-
Benzene	ug/kg	-	-	-	-	-	-
Carbon disulfide	ug/kg	-	-	-	-	-	-
Carbon tetrachloride	ug/kg	-	-	-	-	-	-
Chlorobenzene	ug/kg	-	-	-	-	-	-
Chloroethane	ug/kg	-	-	-	-	-	-
cis-1,2-Dichloroethene	ug/kg	-	-	-	-	-	-
Cyclohexane	ug/kg	-	-	-	-	-	-
Ethylbenzene	ug/kg	-	-	-	-	-	-
Isopropyl benzene	ug/kg	-	-	-	-	-	-
Methyl acetate	ug/kg	-	-	-	-	-	-
Methyl cyclohexane	ug/kg	-	-	-	-	-	-
Methyl tert butyl ether (MTBE)	ug/kg	-	-	-	-	-	-
Methylene chloride	ug/kg	-	-	-	-	-	-
Styrene	ug/kg	-	-	-	-	-	-
Tetrachloroethene	ug/kg	-	-	-	-	-	-
Toluene	ug/kg	-	-	-	-	-	-
trans-1,2-Dichloroethene	ug/kg	-	-	-	-	-	-
Trichloroethene	ug/kg	-	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	ug/kg	-	-	-	-	-	-
Trifluorotrichloroethane (CFC-113)	ug/kg	-	-	-	-	-	-
Vinyl chloride	ug/kg	-	-	-	-	-	-
Xylenes (total)	ug/kg	-	-	-	-	-	-
Semi-Volatiles							
2,4-Dimethylphenol	ug/kg	-	-	-	-	-	-
2-Chlorophenol	ug/kg	-	-	-	-	-	-
2-Methylnaphthalene	ug/kg	-	-	-	-	-	-
2-Methylphenol	ug/kg	-	-	-	-	-	-
3&4-Methylphenol	ug/kg	-	-	-	-	-	-
Acenaphthene	ug/kg	-	-	-	-	-	-
Acenaphthylene	ug/kg	-	-	-	-	-	-
Acetophenone	ug/kg	-	-	-	-	-	-

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-113 (SS-35/TP-15)**	**SS-181-AS**	**SS-182-AS**	**SS-183-AS**	**SS-184-AS**	**SS-185-AS**
Sample ID:		**SS-38443-111618-JC-113**	**SS-38443-111918-JC-181**	**SS-38443-111918-JC-182**	**SS-38443-111618-JC-183**	**SS-38443-111618-JC-184**	**SS-38443-111618-JC-185**
Sample Date:		**11/16/2018**	**11/19/2018**	**11/19/2018**	**11/16/2018**	**11/16/2018**	**11/16/2018**
Sample Depth:		**0-2 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**
Parameters	**Units**						
Anthracene	ug/kg	-	-	-	-	-	-
Benzaldehyde	ug/kg	-	-	-	-	-	-
Benzo(a)anthracene	ug/kg	-	-	-	-	-	-
Benzo(a)pyrene	ug/kg	-	-	-	-	-	-
Benzo(b)fluoranthene	ug/kg	-	-	-	-	-	-
Benzo(g,h,i)perylene	ug/kg	-	-	-	-	-	-
Benzo(k)fluoranthene	ug/kg	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	ug/kg	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	ug/kg	-	-	-	-	-	-
Carbazole	ug/kg	-	-	-	-	-	-
Chrysene	ug/kg	-	-	-	-	-	-
Dibenz(a,h)anthracene	ug/kg	-	-	-	-	-	-
Dibenzofuran	ug/kg	-	-	-	-	-	-
Diethyl phthalate	ug/kg	-	-	-	-	-	-
Dimethyl phthalate	ug/kg	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	ug/kg	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	ug/kg	-	-	-	-	-	-
Fluoranthene	ug/kg	-	-	-	-	-	-
Fluorene	ug/kg	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/kg	-	-	-	-	-	-
Naphthalene	ug/kg	-	-	-	-	-	-
N-Nitrosodiphenylamine	ug/kg	-	-	-	-	-	-
Phenanthrene	ug/kg	-	-	-	-	-	-
Phenol	ug/kg	-	-	-	-	-	-
Pyrene	ug/kg	-	-	-	-	-	-
Metals							
Aluminum	mg/kg	-	-	-	-	-	-
Antimony	mg/kg	-	-	-	-	-	-
Arsenic	mg/kg	-	-	-	-	-	-
Barium	mg/kg	-	-	-	-	-	-
Beryllium	mg/kg	-	-	-	-	-	-
Cadmium	mg/kg	-	-	-	-	-	-
Calcium	mg/kg	-	-	-	-	-	-
Chromium	mg/kg	-	-	-	-	-	-
Chromium III (trivalent)	mg/kg	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-
Cobalt	mg/kg	-	-	-	-	-	-
Copper	mg/kg	-	-	-	-	-	-
Iron	mg/kg	-	-	-	-	-	-
Lead	mg/kg	-	-	-	-	-	-
Lead - coarse fraction	mg/kg	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-113 (SS-35/TP-15)**	**SS-181-AS**	**SS-182-AS**	**SS-183-AS**	**SS-184-AS**	**SS-185-AS**
Sample ID:		**SS-38443-111618-JC-113**	**SS-38443-111918-JC-181**	**SS-38443-111918-JC-182**	**SS-38443-111618-JC-183**	**SS-38443-111618-JC-184**	**SS-38443-111618-JC-185**
Sample Date:		**11/16/2018**	**11/19/2018**	**11/19/2018**	**11/16/2018**	**11/16/2018**	**11/16/2018**
Sample Depth:		**0-2 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**
Parameters	**Units**						
Magnesium	mg/kg	-	-	-	-	-	-
Manganese	mg/kg	-	-	-	-	-	-
Mercury	mg/kg	-	-	-	-	-	-
Nickel	mg/kg	-	-	-	-	-	-
Potassium	mg/kg	-	-	-	-	-	-
Selenium	mg/kg	-	-	-	-	-	-
Silver	mg/kg	-	-	-	-	-	-
Sodium	mg/kg	-	-	-	-	-	-
Thallium	mg/kg	-	-	-	-	-	-
Vanadium	mg/kg	-	-	-	-	-	-
Zinc	mg/kg	-	-	-	-	-	-
PCBs							
Aroclor-1242 (PCB-1242)	ug/kg	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/kg	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/kg	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/kg	-	-	-	-	-	-
Pesticides							
4,4'-DDD	ug/kg	-	-	-	-	-	-
4,4'-DDE	ug/kg	-	-	-	-	-	-
4,4'-DDT	ug/kg	-	-	-	-	-	-
alpha-Chlordane	ug/kg	-	-	-	-	-	-
Dieldrin	ug/kg	-	-	-	-	-	-
Endosulfan I	ug/kg	-	-	-	-	-	-
Endosulfan II	ug/kg	-	-	-	-	-	-
Endosulfan sulfate	ug/kg	-	-	-	-	-	-
Endrin	ug/kg	-	-	-	-	-	-
Endrin aldehyde	ug/kg	-	-	-	-	-	-
Endrin ketone	ug/kg	-	-	-	-	-	-
gamma-BHC (lindane)	ug/kg	-	-	-	-	-	-
gamma-Chlordane	ug/kg	-	-	-	-	-	-
Heptachlor epoxide	ug/kg	-	-	-	-	-	-
Methoxychlor	ug/kg	-	-	-	-	-	-
Dioxin/Furans							
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-113 (SS-35/TP-15)**	**SS-181-AS**	**SS-182-AS**	**SS-183-AS**	**SS-184-AS**	**SS-185-AS**
Sample ID:		**SS-38443-111618-JC-113**	**SS-38443-111918-JC-181**	**SS-38443-111918-JC-182**	**SS-38443-111618-JC-183**	**SS-38443-111618-JC-184**	**SS-38443-111618-JC-185**
Sample Date:		**11/16/2018**	**11/19/2018**	**11/19/2018**	**11/16/2018**	**11/16/2018**	**11/16/2018**
Sample Depth:		**0-2 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**
Parameters	**Units**						
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-
Asbestos							
Chrysotile asbestos	%	-	**0.25**	0.25 <	0.25 <	0.25 <	**0.25**
Geotechnical							
Coarse sand	%	-	-	-	-	-	-
Fine sand	%	-	-	-	-	-	-
Fines	%	-	-	-	-	-	-
Gravel	%	-	-	-	-	-	-
Medium sand	%	-	-	-	-	-	-
Sand	%	-	-	-	-	-	-
Sieve, #4	% passed	-	-	-	-	-	-
Sieve, #10	% passed	-	-	-	-	-	-
Sieve, #20	% passed	-	-	-	-	-	-
Sieve, #40	% passed	-	-	-	-	-	-
Sieve, #60	% passed	-	-	-	-	-	-
Sieve, #80	% passed	-	-	-	-	-	-
Sieve, #100	% passed	-	-	-	-	-	-
Sieve, #200	% passed	-	-	-	-	-	-
Sieve, 0.375 inch	% passed	-	-	-	-	-	-
Sieve, 0.75 inch	% passed	-	-	-	-	-	-
Sieve, 1 inch	% passed	-	-	-	-	-	-
Sieve, 1.5 inch	% passed	-	-	-	-	-	-
Sieve, 2 inch	% passed	-	-	-	-	-	-
Sieve, 3 inch	% passed	-	-	-	-	-	-
General Chemistry							
Cyanide (total)	mg/kg	-	-	-	-	-	-
Fraction organic carbon (FOC)	%	-	-	-	-	-	-

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-113 (SS-35/TP-15)**	**SS-181-AS**	**SS-182-AS**	**SS-183-AS**	**SS-184-AS**	**SS-185-AS**
Sample ID:		**SS-38443-111618-JC-113**	**SS-38443-111918-JC-181**	**SS-38443-111918-JC-182**	**SS-38443-111618-JC-183**	**SS-38443-111618-JC-184**	**SS-38443-111618-JC-185**
Sample Date:		**11/16/2018**	**11/19/2018**	**11/19/2018**	**11/16/2018**	**11/16/2018**	**11/16/2018**
Sample Depth:		**0-2 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**
Parameters	**Units**						
Total solids	%	-	-	-	-	-	-

Notes
< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
D - Compounds at secondary dilution factor.
E - Estimated because of the presence of interference (Inorganics).
E - Exceed calibration range of GC/MS instrument (Organics).
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%. The
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-186-AS**	**SS-187-AS**	**SS-188-AS**	**SS-189-AS**	**SS-190-AS**	**SS-191-AS**
Sample ID:		**SS-38443-111918-JC-186**	**SS-38443-111618-JC-187**	**SS-38443-101618-JC-188**	**SS-38443-111618-JC-189**	**SS-38443-111918-JC-190**	**SS-38443-111618-JC-191**
Sample Date:		**11/19/2018**	**11/16/2018**	**10/16/2018**	**11/16/2018**	**11/19/2018**	**11/16/2018**
Sample Depth:		**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**
Parameters	**Units**						
Volatiles							
1,1,1-Trichloroethane	ug/kg	-	-	-	-	-	-
1,1,2-Trichloroethane	ug/kg	-	-	-	-	-	-
1,1-Dichloroethane	ug/kg	-	-	-	-	-	-
1,1-Dichloroethene	ug/kg	-	-	-	-	-	-
1,2,4-Trichlorobenzene	ug/kg	-	-	-	-	-	-
1,2-Dichlorobenzene	ug/kg	-	-	-	-	-	-
1,2-Dichloroethene (total)	ug/kg	-	-	-	-	-	-
1,3-Dichlorobenzene	ug/kg	-	-	-	-	-	-
1,4-Dichlorobenzene	ug/kg	-	-	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	-	-	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	-	-	-	-	-	-
Acetone	ug/kg	-	-	-	-	-	-
Benzene	ug/kg	-	-	-	-	-	-
Carbon disulfide	ug/kg	-	-	-	-	-	-
Carbon tetrachloride	ug/kg	-	-	-	-	-	-
Chlorobenzene	ug/kg	-	-	-	-	-	-
Chloroethane	ug/kg	-	-	-	-	-	-
cis-1,2-Dichloroethene	ug/kg	-	-	-	-	-	-
Cyclohexane	ug/kg	-	-	-	-	-	-
Ethylbenzene	ug/kg	-	-	-	-	-	-
Isopropyl benzene	ug/kg	-	-	-	-	-	-
Methyl acetate	ug/kg	-	-	-	-	-	-
Methyl cyclohexane	ug/kg	-	-	-	-	-	-
Methyl tert butyl ether (MTBE)	ug/kg	-	-	-	-	-	-
Methylene chloride	ug/kg	-	-	-	-	-	-
Styrene	ug/kg	-	-	-	-	-	-
Tetrachloroethene	ug/kg	-	-	-	-	-	-
Toluene	ug/kg	-	-	-	-	-	-
trans-1,2-Dichloroethene	ug/kg	-	-	-	-	-	-
Trichloroethene	ug/kg	-	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	ug/kg	-	-	-	-	-	-
Trifluorotrichloroethane (CFC-113)	ug/kg	-	-	-	-	-	-
Vinyl chloride	ug/kg	-	-	-	-	-	-
Xylenes (total)	ug/kg	-	-	-	-	-	-
Semi-Volatiles							
2,4-Dimethylphenol	ug/kg	-	-	-	-	-	-
2-Chlorophenol	ug/kg	-	-	-	-	-	-
2-Methylnaphthalene	ug/kg	-	-	-	-	-	-
2-Methylphenol	ug/kg	-	-	-	-	-	-
3&4-Methylphenol	ug/kg	-	-	-	-	-	-
Acenaphthene	ug/kg	-	-	-	-	-	-
Acenaphthylene	ug/kg	-	-	-	-	-	-
Acetophenone	ug/kg	-	-	-	-	-	-

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-186-AS**	**SS-187-AS**	**SS-188-AS**	**SS-189-AS**	**SS-190-AS**	**SS-191-AS**
Sample ID:		**SS-38443-111918-JC-186**	**SS-38443-111618-JC-187**	**SS-38443-101618-JC-188**	**SS-38443-111618-JC-189**	**SS-38443-111918-JC-190**	**SS-38443-111618-JC-191**
Sample Date:		**11/19/2018**	**11/16/2018**	**10/16/2018**	**11/16/2018**	**11/19/2018**	**11/16/2018**
Sample Depth:		**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**
Parameters	**Units**						
Anthracene	ug/kg	-	-	-	-	-	-
Benzaldehyde	ug/kg	-	-	-	-	-	-
Benzo(a)anthracene	ug/kg	-	-	-	-	-	-
Benzo(a)pyrene	ug/kg	-	-	-	-	-	-
Benzo(b)fluoranthene	ug/kg	-	-	-	-	-	-
Benzo(g,h,i)perylene	ug/kg	-	-	-	-	-	-
Benzo(k)fluoranthene	ug/kg	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	ug/kg	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	ug/kg	-	-	-	-	-	-
Carbazole	ug/kg	-	-	-	-	-	-
Chrysene	ug/kg	-	-	-	-	-	-
Dibenz(a,h)anthracene	ug/kg	-	-	-	-	-	-
Dibenzofuran	ug/kg	-	-	-	-	-	-
Diethyl phthalate	ug/kg	-	-	-	-	-	-
Dimethyl phthalate	ug/kg	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	ug/kg	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	ug/kg	-	-	-	-	-	-
Fluoranthene	ug/kg	-	-	-	-	-	-
Fluorene	ug/kg	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/kg	-	-	-	-	-	-
Naphthalene	ug/kg	-	-	-	-	-	-
N-Nitrosodiphenylamine	ug/kg	-	-	-	-	-	-
Phenanthrene	ug/kg	-	-	-	-	-	-
Phenol	ug/kg	-	-	-	-	-	-
Pyrene	ug/kg	-	-	-	-	-	-
Metals							
Aluminum	mg/kg	-	-	-	-	-	-
Antimony	mg/kg	-	-	-	-	-	-
Arsenic	mg/kg	-	-	-	-	-	-
Barium	mg/kg	-	-	-	-	-	-
Beryllium	mg/kg	-	-	-	-	-	-
Cadmium	mg/kg	-	-	-	-	-	-
Calcium	mg/kg	-	-	-	-	-	-
Chromium	mg/kg	-	-	-	-	-	-
Chromium III (trivalent)	mg/kg	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-
Cobalt	mg/kg	-	-	-	-	-	-
Copper	mg/kg	-	-	-	-	-	-
Iron	mg/kg	-	-	-	-	-	-
Lead	mg/kg	-	-	-	-	-	-
Lead - coarse fraction	mg/kg	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-186-AS**	**SS-187-AS**	**SS-188-AS**	**SS-189-AS**	**SS-190-AS**	**SS-191-AS**
Sample ID:		**SS-38443-111918-JC-186**	**SS-38443-111618-JC-187**	**SS-38443-101618-JC-188**	**SS-38443-111618-JC-189**	**SS-38443-111918-JC-190**	**SS-38443-111618-JC-191**
Sample Date:		**11/19/2018**	**11/16/2018**	**10/16/2018**	**11/16/2018**	**11/19/2018**	**11/16/2018**
Sample Depth:		**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**
Parameters	**Units**						
Magnesium	mg/kg	-	-	-	-	-	-
Manganese	mg/kg	-	-	-	-	-	-
Mercury	mg/kg	-	-	-	-	-	-
Nickel	mg/kg	-	-	-	-	-	-
Potassium	mg/kg	-	-	-	-	-	-
Selenium	mg/kg	-	-	-	-	-	-
Silver	mg/kg	-	-	-	-	-	-
Sodium	mg/kg	-	-	-	-	-	-
Thallium	mg/kg	-	-	-	-	-	-
Vanadium	mg/kg	-	-	-	-	-	-
Zinc	mg/kg	-	-	-	-	-	-
PCBs							
Aroclor-1242 (PCB-1242)	ug/kg	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/kg	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/kg	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/kg	-	-	-	-	-	-
Pesticides							
4,4'-DDD	ug/kg	-	-	-	-	-	-
4,4'-DDE	ug/kg	-	-	-	-	-	-
4,4'-DDT	ug/kg	-	-	-	-	-	-
alpha-Chlordane	ug/kg	-	-	-	-	-	-
Dieldrin	ug/kg	-	-	-	-	-	-
Endosulfan I	ug/kg	-	-	-	-	-	-
Endosulfan II	ug/kg	-	-	-	-	-	-
Endosulfan sulfate	ug/kg	-	-	-	-	-	-
Endrin	ug/kg	-	-	-	-	-	-
Endrin aldehyde	ug/kg	-	-	-	-	-	-
Endrin ketone	ug/kg	-	-	-	-	-	-
gamma-BHC (lindane)	ug/kg	-	-	-	-	-	-
gamma-Chlordane	ug/kg	-	-	-	-	-	-
Heptachlor epoxide	ug/kg	-	-	-	-	-	-
Methoxychlor	ug/kg	-	-	-	-	-	-
Dioxin/Furans							
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-186-AS**	**SS-187-AS**	**SS-188-AS**	**SS-189-AS**	**SS-190-AS**	**SS-191-AS**
Sample ID:		**SS-38443-111918-JC-186**	**SS-38443-111618-JC-187**	**SS-38443-101618-JC-188**	**SS-38443-111618-JC-189**	**SS-38443-111918-JC-190**	**SS-38443-111618-JC-191**
Sample Date:		**11/19/2018**	**11/16/2018**	**10/16/2018**	**11/16/2018**	**11/19/2018**	**11/16/2018**
Sample Depth:		**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**
Parameters	**Units**						
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-
Asbestos							
Chrysotile asbestos	%	-	0.25 <	**0.5**	0.25 <	0.25 <	-
Geotechnical							
Coarse sand	%	-	-	-	-	-	-
Fine sand	%	-	-	-	-	-	-
Fines	%	-	-	-	-	-	-
Gravel	%	-	-	-	-	-	-
Medium sand	%	-	-	-	-	-	-
Sand	%	-	-	-	-	-	-
Sieve, #4	% passed	-	-	-	-	-	-
Sieve, #10	% passed	-	-	-	-	-	-
Sieve, #20	% passed	-	-	-	-	-	-
Sieve, #40	% passed	-	-	-	-	-	-
Sieve, #60	% passed	-	-	-	-	-	-
Sieve, #80	% passed	-	-	-	-	-	-
Sieve, #100	% passed	-	-	-	-	-	-
Sieve, #200	% passed	-	-	-	-	-	-
Sieve, 0.375 inch	% passed	-	-	-	-	-	-
Sieve, 0.75 inch	% passed	-	-	-	-	-	-
Sieve, 1 inch	% passed	-	-	-	-	-	-
Sieve, 1.5 inch	% passed	-	-	-	-	-	-
Sieve, 2 inch	% passed	-	-	-	-	-	-
Sieve, 3 inch	% passed	-	-	-	-	-	-
General Chemistry							
Cyanide (total)	mg/kg	-	-	-	-	-	-
Fraction organic carbon (FOC)	%	-	-	-	-	-	-

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-186-AS**	**SS-187-AS**	**SS-188-AS**	**SS-189-AS**	**SS-190-AS**	**SS-191-AS**
Sample ID:		**SS-38443-111918-JC-186**	**SS-38443-111618-JC-187**	**SS-38443-101618-JC-188**	**SS-38443-111618-JC-189**	**SS-38443-111918-JC-190**	**SS-38443-111618-JC-191**
Sample Date:		**11/19/2018**	**11/16/2018**	**10/16/2018**	**11/16/2018**	**11/19/2018**	**11/16/2018**
Sample Depth:		**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**
Parameters	**Units**						
Total solids	%	-	-	-	-	-	-

Notes
< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
D - Compounds at secondary dilution factor.
E - Estimated because of the presence of interference (Inorganics).
E - Exceed calibration range of GC/MS instrument (Organics).
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%. The
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-192-AS**	**TP-1**	**TP-1**	**TP-1**	**TP-1**	**TP-2**
Sample ID:		**SS-38443-111618-JC-192**	**S-38443-092308-KMV-004**	**S-38443-092308-KMV-003**	**S-38443-092308-KMV-002**	**S-38443-092308-KMV-001**	**S-38443-092408-KMV-005**
Sample Date:		**11/16/2018**	**9/23/2008**	**9/23/2008**	**9/23/2008**	**9/23/2008**	**9/24/2008**
Sample Depth:		**0-0.5 ft BGS**	**4 ft BGS**	**6 ft BGS**	**8 ft BGS**	**13 ft BGS**	**1 ft BGS**
Parameters	**Units**						
Volatiles							
1,1,1-Trichloroethane	ug/kg	-	5.2 U	6.2 U	7.0 U	6.0 U	4.8 U
1,1,2-Trichloroethane	ug/kg	-	5.2 U	6.2 U	7.0 U	6.0 U	4.8 U
1,1-Dichloroethane	ug/kg	-	5.2 U	6.2 U	7.0 U	6.0 U	4.8 U
1,1-Dichloroethene	ug/kg	-	5.2 U	6.2 U	7.0 U	6.0 U	4.8 U
1,2,4-Trichlorobenzene	ug/kg	-	5.2 U	6.2 U	7.0 U	6.0 UJ	4.8 U
1,2-Dichlorobenzene	ug/kg	-	5.2 U	6.2 U	7.0 U	6.0 UJ	4.8 U
1,2-Dichloroethene (total)	ug/kg	-	-	-	-	-	-
1,3-Dichlorobenzene	ug/kg	-	5.2 U	6.2 U	7.0 U	6.0 UJ	4.8 U
1,4-Dichlorobenzene	ug/kg	-	5.2 U	6.2 U	7.0 U	**0.87 J**	4.8 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	-	21 U	**3.4 J**	**4.4 J**	24 U	19 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	-	21 U	25 U	28 U	24 U	19 U
Acetone	ug/kg	-	21 U	**9.3 J**	**13 J**	24 U	19 U
Benzene	ug/kg	-	5.2 U	6.2 U	7.0 U	6.0 U	4.8 U
Carbon disulfide	ug/kg	-	5.2 U	6.2 U	7.0 U	6.0 U	4.8 U
Carbon tetrachloride	ug/kg	-	5.2 U	6.2 U	7.0 U	6.0 U	4.8 U
Chlorobenzene	ug/kg	-	5.2 U	6.2 U	7.0 U	6.0 U	4.8 U
Chloroethane	ug/kg	-	5.2 U	6.2 U	7.0 U	6.0 U	4.8 U
cis-1,2-Dichloroethene	ug/kg	-	5.2 U	6.2 U	7.0 U	6.0 U	4.8 U
Cyclohexane	ug/kg	-	10 U	12 U	14 U	12 U	9.6 U
Ethylbenzene	ug/kg	-	5.2 U	6.2 U	7.0 U	6.0 U	4.8 U
Isopropyl benzene	ug/kg	-	5.2 U	6.2 U	7.0 U	6.0 U	4.8 U
Methyl acetate	ug/kg	-	10 U	12 U	14 U	12 U	9.6 U
Methyl cyclohexane	ug/kg	-	10 U	12 U	14 U	12 U	9.6 U
Methyl tert butyl ether (MTBE)	ug/kg	-	21 U	25 U	28 U	24 U	19 U
Methylene chloride	ug/kg	-	5.2 U	6.2 U	**2.6 J**	6.0 U	4.8 U
Styrene	ug/kg	-	5.2 U	6.2 U	7.0 U	6.0 U	4.8 U
Tetrachloroethene	ug/kg	-	5.2 U	6.2 U	7.0 U	6.0 U	4.8 U
Toluene	ug/kg	-	5.2 U	6.2 U	7.0 U	6.0 U	4.8 U
trans-1,2-Dichloroethene	ug/kg	-	5.2 U	6.2 U	7.0 U	6.0 U	4.8 U
Trichloroethene	ug/kg	-	5.2 U	6.2 U	7.0 U	6.0 U	4.8 U
Trichlorofluoromethane (CFC-11)	ug/kg	-	5.2 U	6.2 U	7.0 U	6.0 U	4.8 U
Trifluorotrichloroethane (CFC-113)	ug/kg	-	5.2 U	6.2 U	7.0 U	6.0 U	4.8 U
Vinyl chloride	ug/kg	-	5.2 U	6.2 U	7.0 U	6.0 U	4.8 U
Xylenes (total)	ug/kg	-	10 U	12 U	14 U	12 U	9.6 U
Semi-Volatiles							
2,4-Dimethylphenol	ug/kg	-	160 U	170 U	190 U	180 U	160 U
2-Chlorophenol	ug/kg	-	55 U	57 U	65 U	60 U	55 U
2-Methylnaphthalene	ug/kg	-	**13**	**12**	**16**	**28**	7.3 U
2-Methylphenol	ug/kg	-	220 U	230 U	260 U	240 U	220 U
3&4-Methylphenol	ug/kg	-	-	-	-	-	-
Acenaphthene	ug/kg	-	**9.7**	7.5 U	8.6 U	**14**	7.3 U
Acenaphthylene	ug/kg	-	**22**	7.5 U	8.6 U	**37**	7.3 U
Acetophenone	ug/kg	-	110 U	110 U	130 U	120 U	110 U

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-192-AS**	**TP-1**	**TP-1**	**TP-1**	**TP-1**	**TP-2**
Sample ID:		**SS-38443-111618-JC-192**	**S-38443-092308-KMV-004**	**S-38443-092308-KMV-003**	**S-38443-092308-KMV-002**	**S-38443-092308-KMV-001**	**S-38443-092408-KMV-005**
Sample Date:		**11/16/2018**	**9/23/2008**	**9/23/2008**	**9/23/2008**	**9/23/2008**	**9/24/2008**
Sample Depth:		**0-0.5 ft BGS**	**4 ft BGS**	**6 ft BGS**	**8 ft BGS**	**13 ft BGS**	**1 ft BGS**
Parameters	**Units**						
Anthracene	ug/kg	-	**83**	**8.6**	8.6 U	**39**	7.3 U
Benzaldehyde	ug/kg	-	110 U	110 U	130 U	120 U	110 U
Benzo(a)anthracene	ug/kg	-	**1100**	7.5 U	8.6 U	**140**	**33**
Benzo(a)pyrene	ug/kg	-	**980**	7.5 U	8.6 U	**140**	**35**
Benzo(b)fluoranthene	ug/kg	-	**1800**	7.5 U	8.6 U	**180 J**	**46**
Benzo(g,h,i)perylene	ug/kg	-	**920**	7.5 U	8.6 U	**120 J**	**22**
Benzo(k)fluoranthene	ug/kg	-	**710**	7.5 U	8.6 U	**52**	**21**
Biphenyl (1,1-Biphenyl)	ug/kg	-	55 U	57 U	65 U	60 U	55 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	-	55 U	57 U	**46 J**	**110**	55 U
Butyl benzylphthalate (BBP)	ug/kg	-	55 U	57 U	65 U	60 U	55 U
Carbazole	ug/kg	-	**22 J**	57 U	65 U	60 U	55 U
Chrysene	ug/kg	-	**1300**	7.5 U	**11**	**150**	**41**
Dibenz(a,h)anthracene	ug/kg	-	**270**	7.5 U	8.6 U	**22**	7.3 U
Dibenzofuran	ug/kg	-	55 U	57 U	65 U	60 U	55 U
Diethyl phthalate	ug/kg	-	55 U	57 U	65 U	60 U	55 U
Dimethyl phthalate	ug/kg	-	55 U	57 U	65 U	60 U	55 U
Di-n-butylphthalate (DBP)	ug/kg	-	55 U	57 U	65 U	60 U	55 U
Di-n-octyl phthalate (DnOP)	ug/kg	-	55 U	57 U	65 U	60 U	55 U
Fluoranthene	ug/kg	-	**1400**	**18**	**15**	**230 J**	**73**
Fluorene	ug/kg	-	**8.2**	**9.3**	8.6 U	**23**	7.3 U
Indeno(1,2,3-cd)pyrene	ug/kg	-	**850**	7.5 U	8.6 U	**73 J**	**20**
Naphthalene	ug/kg	-	**13**	7.5 U	**8.7**	**21**	7.3 U
N-Nitrosodiphenylamine	ug/kg	-	55 U	57 U	65 U	60 U	55 U
Phenanthrene	ug/kg	-	**370**	**25**	**14**	**140**	**26**
Phenol	ug/kg	-	55 U	57 U	65 U	60 U	55 U
Pyrene	ug/kg	-	**1100**	**15**	**16**	**250**	**61**
Metals							
Aluminum	mg/kg	-	**4380**	**7780**	**7800**	**5540**	**6250**
Antimony	mg/kg	-	**0.44 J**	**0.78 J**	**4.2 J**	**1.1 J**	6.6 U
Arsenic	mg/kg	-	**5.2 J**	**35.4 J**	**43.2 J**	**14.9 J**	**8.3**
Barium	mg/kg	-	**49.1**	**172**	**215**	**98.8**	**56.7**
Beryllium	mg/kg	-	**0.27 J**	**1.8 J**	**2.1 J**	**1.1 J**	**0.32 J**
Cadmium	mg/kg	-	**0.28 J**	**0.35 J**	**0.39 J**	**0.42 J**	**0.29 J**
Calcium	mg/kg	-	**47600**	**16800**	**12500**	**57500**	**38700**
Chromium	mg/kg	-	**8.7 J**	**20.0 J**	**21.8 J**	**15.0 J**	**9.9**
Chromium III (trivalent)	mg/kg	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-
Cobalt	mg/kg	-	**2.9 J**	**6.6 J**	**6.4 J**	**4.8 J**	**5.1 J**
Copper	mg/kg	-	**22.0**	**28.0**	**34.5**	**25.8**	**15.8**
Iron	mg/kg	-	**8520**	**13400**	**16000**	**12500**	**13500**
Lead	mg/kg	-	**32.2**	**15.5**	**23.1**	**17.7**	**17.3**
Lead - coarse fraction	mg/kg	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-192-AS**	**TP-1**	**TP-1**	**TP-1**	**TP-1**	**TP-2**
Sample ID:		**SS-38443-111618-JC-192**	**S-38443-092308-KMV-004**	**S-38443-092308-KMV-003**	**S-38443-092308-KMV-002**	**S-38443-092308-KMV-001**	**S-38443-092408-KMV-005**
Sample Date:		**11/16/2018**	**9/23/2008**	**9/23/2008**	**9/23/2008**	**9/23/2008**	**9/24/2008**
Sample Depth:		**0-0.5 ft BGS**	**4 ft BGS**	**6 ft BGS**	**8 ft BGS**	**13 ft BGS**	**1 ft BGS**
Parameters	**Units**						
Magnesium	mg/kg	-	**15800**	**6050**	**4540**	**33400**	**18600**
Manganese	mg/kg	-	**321**	**66.4**	**79.3**	**136**	**445**
Mercury	mg/kg	-	**0.048 J**	**0.072 J**	**0.054 J**	**0.068 J**	**0.079 J**
Nickel	mg/kg	-	**9.1**	**14.6**	**16.3**	**11.9**	**11.8**
Potassium	mg/kg	-	**533 J**	**1290**	**1220**	**908**	**735**
Selenium	mg/kg	-	27.3 U	**6.6 J**	**8.9 J**	**7.2 J**	27.5 U
Silver	mg/kg	-	1.1 U	1.1 U	1.3 U	1.2 U	1.1 U
Sodium	mg/kg	-	547 U	566 U	646 U	602 U	550 U
Thallium	mg/kg	-	**0.15**	**1.8**	**2.0**	**1.2**	**0.17**
Vanadium	mg/kg	-	**10.9**	**39.7**	**41.9**	**30.2**	**17.1**
Zinc	mg/kg	-	**60.0 J**	**30.8 J**	**37.6 J**	**40.1 J**	**53.7 J**
PCBs							
Aroclor-1242 (PCB-1242)	ug/kg	-	36 U	190 U	210 U	200 U	36 U
Aroclor-1248 (PCB-1248)	ug/kg	-	36 U	**1000**	**990**	**2700**	36 U
Aroclor-1254 (PCB-1254)	ug/kg	-	36 U	190 U	210 U	200 U	36 U
Aroclor-1260 (PCB-1260)	ug/kg	-	36 U	**160 J**	**180 J**	**270**	**23 J**
Pesticides							
4,4'-DDD	ug/kg	-	93 U	96 U	110 U	100 U	9.3 U
4,4'-DDE	ug/kg	-	93 U	**46 J**	**27 J**	**69 J**	9.3 U
4,4'-DDT	ug/kg	-	93 UJ	96 UJ	110 UJ	100 UJ	9.3 UJ
alpha-Chlordane	ug/kg	-	93 U	96 U	110 U	100 U	9.3 U
Dieldrin	ug/kg	-	93 U	96 U	110 U	100 U	9.3 U
Endosulfan I	ug/kg	-	93 U	96 U	110 U	100 U	9.3 U
Endosulfan II	ug/kg	-	93 U	96 U	110 U	100 U	9.3 U
Endosulfan sulfate	ug/kg	-	93 U	96 U	110 U	100 U	9.3 U
Endrin	ug/kg	-	93 U	96 U	110 U	100 U	9.3 U
Endrin aldehyde	ug/kg	-	93 U	96 U	110 U	100 U	9.3 U
Endrin ketone	ug/kg	-	93 U	96 U	110 U	100 U	9.3 U
gamma-BHC (lindane)	ug/kg	-	93 U	96 U	110 U	100 U	9.3 U
gamma-Chlordane	ug/kg	-	93 U	**43 J**	**36 J**	100 U	9.3 U
Heptachlor epoxide	ug/kg	-	93 U	96 U	110 U	100 U	9.3 U
Methoxychlor	ug/kg	-	180 U	190 U	210 U	200 U	18 UJ
Dioxin/Furans							
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-192-AS**	**TP-1**	**TP-1**	**TP-1**	**TP-1**	**TP-2**
Sample ID:		**SS-38443-111618-JC-192**	**S-38443-092308-KMV-004**	**S-38443-092308-KMV-003**	**S-38443-092308-KMV-002**	**S-38443-092308-KMV-001**	**S-38443-092408-KMV-005**
Sample Date:		**11/16/2018**	**9/23/2008**	**9/23/2008**	**9/23/2008**	**9/23/2008**	**9/24/2008**
Sample Depth:		**0-0.5 ft BGS**	**4 ft BGS**	**6 ft BGS**	**8 ft BGS**	**13 ft BGS**	**1 ft BGS**
Parameters	**Units**						
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-
Asbestos							
Chrysotile asbestos	%	0.25 <	-	-	-	-	-
Geotechnical							
Coarse sand	%	-	-	-	-	-	-
Fine sand	%	-	-	-	-	-	-
Fines	%	-	-	-	-	-	-
Gravel	%	-	-	-	-	-	-
Medium sand	%	-	-	-	-	-	-
Sand	%	-	-	-	-	-	-
Sieve, #4	% passed	-	-	-	-	-	-
Sieve, #10	% passed	-	-	-	-	-	-
Sieve, #20	% passed	-	-	-	-	-	-
Sieve, #40	% passed	-	-	-	-	-	-
Sieve, #60	% passed	-	-	-	-	-	-
Sieve, #80	% passed	-	-	-	-	-	-
Sieve, #100	% passed	-	-	-	-	-	-
Sieve, #200	% passed	-	-	-	-	-	-
Sieve, 0.375 inch	% passed	-	-	-	-	-	-
Sieve, 0.75 inch	% passed	-	-	-	-	-	-
Sieve, 1 inch	% passed	-	-	-	-	-	-
Sieve, 1.5 inch	% passed	-	-	-	-	-	-
Sieve, 2 inch	% passed	-	-	-	-	-	-
Sieve, 3 inch	% passed	-	-	-	-	-	-
General Chemistry							
Cyanide (total)	mg/kg	-	0.55 U	0.57 U	0.65 U	0.60 U	0.55 U
Fraction organic carbon (FOC)	%	-	-	-	-	-	-

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-192-AS**	**TP-1**	**TP-1**	**TP-1**	**TP-1**	**TP-2**
Sample ID:		**SS-38443-111618-JC-192**	**S-38443-092308-KMV-004**	**S-38443-092308-KMV-003**	**S-38443-092308-KMV-002**	**S-38443-092308-KMV-001**	**S-38443-092408-KMV-005**
Sample Date:		**11/16/2018**	**9/23/2008**	**9/23/2008**	**9/23/2008**	**9/23/2008**	**9/24/2008**
Sample Depth:		**0-0.5 ft BGS**	**4 ft BGS**	**6 ft BGS**	**8 ft BGS**	**13 ft BGS**	**1 ft BGS**
Parameters	**Units**						
Total solids	%	-	**91.5**	**88.4**	**77.4**	**83.0**	**91.0**

Notes
< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
D - Compounds at secondary dilution factor.
E - Estimated because of the presence of interference (Inorganics).
E - Exceed calibration range of GC/MS instrument (Organics).
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%. The
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TP-2**	**TP-3**	**TP-3**	**TP-3**	**TP-3**	**TP-3**
Sample ID:		**S-38443-092408-KMV-006**	**S-38443-092408-KMV-007**	**S-38443-092408-KMV-008**	**S-38443-092408-KMV-009**	**F-38443-092408-KMV-010**	**S-38443-092408-KMV-011**
Sample Date:		**9/24/2008**	**9/24/2008**	**9/24/2008**	**9/24/2008**	**9/24/2008**	**9/24/2008**
Sample Depth:		**5 ft BGS**	**4 ft BGS**	**8.7 ft BGS**	**10.4 ft BGS**	**13.5 ft BGS**	**16 ft BGS**
Parameters	**Units**						
Volatiles							
1,1,1-Trichloroethane	ug/kg	**2.1 J**	4.9 U	320 U	390 UJ	-	18000 U
1,1,2-Trichloroethane	ug/kg	8.5 UJ	4.9 U	320 U	390 UJ	-	18000 U
1,1-Dichloroethane	ug/kg	8.5 UJ	4.9 U	320 U	**220 J**	-	18000 U
1,1-Dichloroethene	ug/kg	8.5 UJ	4.9 U	320 U	390 UJ	-	18000 U
1,2,4-Trichlorobenzene	ug/kg	R	4.9 U	320 U	390 UJ	-	18000 U
1,2-Dichlorobenzene	ug/kg	R	4.9 U	320 U	390 UJ	-	18000 U
1,2-Dichloroethene (total)	ug/kg	-	-	-	-	-	-
1,3-Dichlorobenzene	ug/kg	R	4.9 U	320 U	390 UJ	-	18000 U
1,4-Dichlorobenzene	ug/kg	**2.0 J**	4.9 U	320 U	390 UJ	-	18000 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	34 UJ	20 U	**1900**	**230 J**	-	72000 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	34 UJ	20 U	1300 U	1500 UJ	-	72000 U
Acetone	ug/kg	34 UJ	20 U	1300 U	1500 UJ	-	72000 U
Benzene	ug/kg	8.5 UJ	4.9 U	**23 J**	**21 J**	-	18000 U
Carbon disulfide	ug/kg	8.5 UJ	4.9 U	320 U	390 UJ	-	18000 U
Carbon tetrachloride	ug/kg	8.5 UJ	4.9 U	320 U	390 UJ	-	18000 U
Chlorobenzene	ug/kg	8.5 UJ	**3.3 J**	**930**	**8500 J**	-	**560000**
Chloroethane	ug/kg	8.5 UJ	4.9 U	320 U	390 UJ	-	18000 U
cis-1,2-Dichloroethene	ug/kg	8.5 UJ	4.9 U	320 U	390 UJ	-	18000 U
Cyclohexane	ug/kg	17 UJ	9.9 U	**78 J**	**71 J**	-	36000 U
Ethylbenzene	ug/kg	8.5 UJ	4.9 U	**25 J**	**31 J**	-	18000 U
Isopropyl benzene	ug/kg	8.5 UJ	4.9 U	**75 J**	390 UJ	-	18000 U
Methyl acetate	ug/kg	17 UJ	9.9 U	**220 J**	**170 J**	-	36000 U
Methyl cyclohexane	ug/kg	17 UJ	9.9 U	**130 J**	**110 J**	-	36000 U
Methyl tert butyl ether (MTBE)	ug/kg	34 UJ	20 U	1300 U	1500 UJ	-	72000 U
Methylene chloride	ug/kg	**7.7 J**	4.9 U	320 U	390 UJ	-	18000 U
Styrene	ug/kg	8.5 UJ	4.9 U	320 UJ	390 UJ	-	18000 UJ
Tetrachloroethene	ug/kg	8.5 UJ	4.9 U	320 U	**25 J**	-	18000 U
Toluene	ug/kg	8.5 UJ	4.9 U	**69 J**	**54 J**	-	18000 U
trans-1,2-Dichloroethene	ug/kg	8.5 UJ	4.9 U	320 U	390 UJ	-	18000 U
Trichloroethene	ug/kg	8.5 UJ	4.9 U	320 U	390 UJ	-	18000 U
Trichlorofluoromethane (CFC-11)	ug/kg	8.5 UJ	4.9 U	320 U	390 UJ	-	18000 U
Trifluorotrichloroethane (CFC-113)	ug/kg	**21 J**	4.9 U	320 U	390 UJ	-	18000 U
Vinyl chloride	ug/kg	8.5 UJ	4.9 U	320 U	390 UJ	-	18000 U
Xylenes (total)	ug/kg	17 UJ	9.9 U	**290 J**	**260 J**	-	36000 U
Semi-Volatiles							
2,4-Dimethylphenol	ug/kg	240 U	170 U	4200 U	4200 U	-	250 U
2-Chlorophenol	ug/kg	79 U	56 U	1400 U	1400 U	-	**50 J**
2-Methylnaphthalene	ug/kg	11 U	**13**	190 U	190 U	-	**31**
2-Methylphenol	ug/kg	320 U	220 U	5600 U	5600 U	-	330 U
3&4-Methylphenol	ug/kg	-	-	-	-	-	-
Acenaphthene	ug/kg	11 U	**18**	190 U	190 U	-	11 U
Acenaphthylene	ug/kg	11 U	7.4 U	190 U	190 U	-	11 U
Acetophenone	ug/kg	160 U	110 U	2800 U	2800 U	-	170 U

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TP-2**	**TP-3**	**TP-3**	**TP-3**	**TP-3**	**TP-3**
Sample ID:		**S-38443-092408-KMV-006**	**S-38443-092408-KMV-007**	**S-38443-092408-KMV-008**	**S-38443-092408-KMV-009**	**F-38443-092408-KMV-010**	**S-38443-092408-KMV-011**
Sample Date:		**9/24/2008**	**9/24/2008**	**9/24/2008**	**9/24/2008**	**9/24/2008**	**9/24/2008**
Sample Depth:		**5 ft BGS**	**4 ft BGS**	**8.7 ft BGS**	**10.4 ft BGS**	**13.5 ft BGS**	**16 ft BGS**
Parameters	**Units**						
Anthracene	ug/kg	11 U	**45**	**430**	**500**	-	**57**
Benzaldehyde	ug/kg	160 U	110 U	2800 U	2800 U	-	170 U
Benzo(a)anthracene	ug/kg	11 U	**160**	**490**	190 U	-	**120**
Benzo(a)pyrene	ug/kg	11 U	**120**	**320**	190 U	-	**88**
Benzo(b)fluoranthene	ug/kg	11 U	**180**	**530**	190 U	-	**120**
Benzo(g,h,i)perylene	ug/kg	11 U	**97**	**200**	190 U	-	**55**
Benzo(k)fluoranthene	ug/kg	11 U	**85**	**200**	190 U	-	**41**
Biphenyl (1,1-Biphenyl)	ug/kg	79 U	56 U	1400 U	1400 U	-	84 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	79 U	**32 J**	**3800**	**6200**	-	**82 J**
Butyl benzylphthalate (BBP)	ug/kg	79 U	56 U	1400 U	1400 U	-	84 U
Carbazole	ug/kg	79 U	**31 J**	1400 U	1400 U	-	84 U
Chrysene	ug/kg	11 U	**140**	**620**	**360**	-	**110**
Dibenz(a,h)anthracene	ug/kg	11 U	**23**	190 U	190 U	-	**12**
Dibenzofuran	ug/kg	79 U	56 U	1400 U	1400 U	-	84 U
Diethyl phthalate	ug/kg	79 U	56 U	1400 U	1400 U	-	84 U
Dimethyl phthalate	ug/kg	79 U	56 U	**2000**	1400 U	-	84 U
Di-n-butylphthalate (DBP)	ug/kg	79 U	56 U	1400 U	1400 U	-	84 U
Di-n-octyl phthalate (DnOP)	ug/kg	79 U	56 U	1400 U	1400 U	-	84 U
Fluoranthene	ug/kg	11 U	**360**	**1600**	**720**	-	**270**
Fluorene	ug/kg	11 U	**16**	**1700**	**3900**	-	11 U
Indeno(1,2,3-cd)pyrene	ug/kg	11 U	**78**	190 U	190 U	-	**41**
Naphthalene	ug/kg	11 U	**10**	190 U	190 U	-	**22**
N-Nitrosodiphenylamine	ug/kg	79 U	56 U	1400 U	1400 U	-	84 U
Phenanthrene	ug/kg	11 U	**210**	**2100**	**2700**	-	**180**
Phenol	ug/kg	79 U	56 U	1400 U	1400 U	-	84 U
Pyrene	ug/kg	11 U	**270**	**1000**	**630**	-	**210**
Metals							
Aluminum	mg/kg	**5620**	**4610**	**4500**	**3740**	-	**3640**
Antimony	mg/kg	9.5 U	6.7 U	6.7 U	**16.1**	-	10.0 U
Arsenic	mg/kg	**22.6**	**8.9**	**9.1**	**8.6**	-	**10**
Barium	mg/kg	**173**	**54.7**	**180**	**279**	-	**215**
Beryllium	mg/kg	**2.7 J**	**0.18 J**	**0.38 J**	**0.73 J**	-	**1.5 J**
Cadmium	mg/kg	**0.20 J**	**0.89**	**6.2**	**4.7**	-	**0.22 J**
Calcium	mg/kg	**1360**	**55100**	**55700**	**36500**	-	**2350**
Chromium	mg/kg	**14.9**	**73.2**	**59.6**	**28.5**	-	**4.3**
Chromium III (trivalent)	mg/kg	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-
Cobalt	mg/kg	**8.1**	**7.4**	**6.7**	**7.1**	-	**4.2 J**
Copper	mg/kg	**34.4**	**147**	**446**	**4030**	-	**31.7**
Iron	mg/kg	**4960**	**49400**	**36700**	**33800**	-	**11200**
Lead	mg/kg	**14.3 J**	**47.0**	**316**	**1390**	-	**7.8 J**
Lead - coarse fraction	mg/kg	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TP-2**	**TP-3**	**TP-3**	**TP-3**	**TP-3**	**TP-3**
Sample ID:		**S-38443-092408-KMV-006**	**S-38443-092408-KMV-007**	**S-38443-092408-KMV-008**	**S-38443-092408-KMV-009**	**F-38443-092408-KMV-010**	**S-38443-092408-KMV-011**
Sample Date:		**9/24/2008**	**9/24/2008**	**9/24/2008**	**9/24/2008**	**9/24/2008**	**9/24/2008**
Sample Depth:		**5 ft BGS**	**4 ft BGS**	**8.7 ft BGS**	**10.4 ft BGS**	**13.5 ft BGS**	**16 ft BGS**
Parameters	**Units**						
Magnesium	mg/kg	**489 J**	**19300**	**31900**	**11500**	-	**587 J**
Manganese	mg/kg	**64.0**	**542**	**386**	**222**	-	**22.2**
Mercury	mg/kg	**0.16**	**0.084 J**	**0.068 J**	**0.089 J**	-	0.17 U
Nickel	mg/kg	**16.6**	**46.7**	**52.1**	**58.5**	-	**14.3**
Potassium	mg/kg	**1250**	**788**	**747**	**624 J**	-	**781 J**
Selenium	mg/kg	**7.9 J**	27.8 U	27.9 U	34.9 U	-	41.9 U
Silver	mg/kg	1.6 U	**0.15 J**	**0.20 J**	**0.78 J**	-	1.7 U
Sodium	mg/kg	791 U	**103 J**	**131 J**	**185 J**	-	**175 J**
Thallium	mg/kg	**0.61**	**0.15**	**0.17**	0.70 U	-	**0.19**
Vanadium	mg/kg	**48.6**	**16.0**	**19.4**	**22.5**	-	**15.6**
Zinc	mg/kg	**20.7 J**	**97.6 J**	**189 J**	**259 J**	-	**18.4 J**
PCBs							
Aroclor-1242 (PCB-1242)	ug/kg	52 U	37 U	37 U	46 U	-	55 U
Aroclor-1248 (PCB-1248)	ug/kg	52 U	37 U	37 U	46 U	-	55 U
Aroclor-1254 (PCB-1254)	ug/kg	52 U	37 U	37 U	**80**	-	55 U
Aroclor-1260 (PCB-1260)	ug/kg	**47 J**	**86**	**110 J**	46 U	-	55 U
Pesticides							
4,4'-DDD	ug/kg	2.7 U	19 U	95 U	24 U	-	28 U
4,4'-DDE	ug/kg	2.7 U	**8.4 J**	95 U	**12 J**	-	**16 J**
4,4'-DDT	ug/kg	2.7 UJ	19 UJ	95 U	24 UJ	-	28 UJ
alpha-Chlordane	ug/kg	2.7 U	19 U	95 U	24 U	-	28 U
Dieldrin	ug/kg	2.7 U	19 U	95 U	24 U	-	28 U
Endosulfan I	ug/kg	2.7 U	19 U	95 U	24 U	-	28 U
Endosulfan II	ug/kg	2.7 U	19 U	95 U	24 U	-	28 U
Endosulfan sulfate	ug/kg	2.7 U	19 U	95 U	24 U	-	28 U
Endrin	ug/kg	2.7 U	19 U	95 U	24 U	-	28 U
Endrin aldehyde	ug/kg	2.7 U	19 U	95 U	24 U	-	28 U
Endrin ketone	ug/kg	2.7 U	19 U	95 U	24 U	-	28 U
gamma-BHC (lindane)	ug/kg	2.7 U	19 U	95 U	24 U	-	28 U
gamma-Chlordane	ug/kg	2.7 U	19 U	95 U	24 U	-	28 U
Heptachlor epoxide	ug/kg	2.7 U	19 U	95 U	24 U	-	28 U
Methoxychlor	ug/kg	5.2 UJ	37 UJ	180 U	46 UJ	-	55 UJ
Dioxin/Furans							
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TP-2**	**TP-3**	**TP-3**	**TP-3**	**TP-3**	**TP-3**
Sample ID:		**S-38443-092408-KMV-006**	**S-38443-092408-KMV-007**	**S-38443-092408-KMV-008**	**S-38443-092408-KMV-009**	**F-38443-092408-KMV-010**	**S-38443-092408-KMV-011**
Sample Date:		**9/24/2008**	**9/24/2008**	**9/24/2008**	**9/24/2008**	**9/24/2008**	**9/24/2008**
Sample Depth:		**5 ft BGS**	**4 ft BGS**	**8.7 ft BGS**	**10.4 ft BGS**	**13.5 ft BGS**	**16 ft BGS**
Parameters	**Units**						
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-
Asbestos							
Chrysotile asbestos	%	-	-	-	-	-	-
Geotechnical							
Coarse sand	%	-	-	-	-	-	-
Fine sand	%	-	-	-	-	-	-
Fines	%	-	-	-	-	-	-
Gravel	%	-	-	-	-	-	-
Medium sand	%	-	-	-	-	-	-
Sand	%	-	-	-	-	-	-
Sieve, #4	% passed	-	-	-	-	-	-
Sieve, #10	% passed	-	-	-	-	-	-
Sieve, #20	% passed	-	-	-	-	-	-
Sieve, #40	% passed	-	-	-	-	-	-
Sieve, #60	% passed	-	-	-	-	-	-
Sieve, #80	% passed	-	-	-	-	-	-
Sieve, #100	% passed	-	-	-	-	-	-
Sieve, #200	% passed	-	-	-	-	-	-
Sieve, 0.375 inch	% passed	-	-	-	-	-	-
Sieve, 0.75 inch	% passed	-	-	-	-	-	-
Sieve, 1 inch	% passed	-	-	-	-	-	-
Sieve, 1.5 inch	% passed	-	-	-	-	-	-
Sieve, 2 inch	% passed	-	-	-	-	-	-
Sieve, 3 inch	% passed	-	-	-	-	-	-
General Chemistry							
Cyanide (total)	mg/kg	0.79 U	0.56 U	**0.20 J**	**0.58 J**	-	0.84 U
Fraction organic carbon (FOC)	%	-	-	-	-	-	-

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TP-2**	**TP-3**	**TP-3**	**TP-3**	**TP-3**	**TP-3**
Sample ID:		**S-38443-092408-KMV-006**	**S-38443-092408-KMV-007**	**S-38443-092408-KMV-008**	**S-38443-092408-KMV-009**	**F-38443-092408-KMV-010**	**S-38443-092408-KMV-011**
Sample Date:		**9/24/2008**	**9/24/2008**	**9/24/2008**	**9/24/2008**	**9/24/2008**	**9/24/2008**
Sample Depth:		**5 ft BGS**	**4 ft BGS**	**8.7 ft BGS**	**10.4 ft BGS**	**13.5 ft BGS**	**16 ft BGS**
Parameters	**Units**						
Total solids	%	**63.3**	**90.1**	**89.6**	**71.6**	-	**59.7**

Notes
< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
D - Compounds at secondary dilution factor.
E - Estimated because of the presence of interference (Inorganics).
E - Exceed calibration range of GC/MS instrument (Organics).
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%. The
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TP-4**	**TP-4**	**TP-4**	**TP-11**	**TP-12**	**TP-12**
Sample ID:		**S-38443-092408-KMV-012**	**S-38443-092408-KMV-013**	**S-38443-092408-KMV-014**	**S-38443-103117-BW-006**	**S-38443-110117-BW-009**	**S-38443-110117-BW-010**
Sample Date:		**9/24/2008**	**9/24/2008**	**9/24/2008**	**10/31/2017**	**11/1/2017**	**11/1/2017**
Sample Depth:		**5 ft BGS**	**10 ft BGS**	**18.6 ft BGS**	**8-10 ft BGS**	**8-10 ft BGS**	**8-10 ft BGS**
							Duplicate
Parameters	**Units**						
Volatiles							
1,1,1-Trichloroethane	ug/kg	11 U	11 U	6.9 U	**6.8 J**	**35 J**	29 U
1,1,2-Trichloroethane	ug/kg	11 U	11 U	6.9 U	0.67 UJ	29 U	24 U
1,1-Dichloroethane	ug/kg	11 U	11 U	**1.0 J**	0.57 U	**490**	**45 J**
1,1-Dichloroethene	ug/kg	11 U	11 U	6.9 U	0.93 U	45 U	37 U
1,2,4-Trichlorobenzene	ug/kg	11 U	11 U	6.9 U	R	32 U	27 U
1,2-Dichlorobenzene	ug/kg	11 U	11 U	6.9 U	R	22 U	19 U
1,2-Dichloroethene (total)	ug/kg	-	-	-	-	-	-
1,3-Dichlorobenzene	ug/kg	11 U	11 U	6.9 U	R	47 U	39 U
1,4-Dichlorobenzene	ug/kg	11 U	11 U	6.9 U	R	34 U	28 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	46 U	43 U	27 U	2.2 U	**93 J**	**58 J**
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	46 U	43 U	27 U	1.5 UJ	**150 J**	41 U
Acetone	ug/kg	46 U	43 U	**19 J**	5.3 U	120 U	100 U
Benzene	ug/kg	11 U	11 U	6.9 U	0.55 U	**63 J**	25 U
Carbon disulfide	ug/kg	11 U	11 U	6.9 U	0.36 U	22 U	19 U
Carbon tetrachloride	ug/kg	11 U	11 U	6.9 U	0.43 U	34 U	28 U
Chlorobenzene	ug/kg	11 U	11 U	6.9 U	0.57 UJ	**1600**	**1300**
Chloroethane	ug/kg	11 U	11 U	6.9 U	0.65 U	35 U	29 U
cis-1,2-Dichloroethene	ug/kg	11 U	11 U	6.9 U	0.48 U	44 U	**47 J**
Cyclohexane	ug/kg	23 U	21 U	14 U	0.36 U	**66 J**	31 U
Ethylbenzene	ug/kg	11 U	11 U	6.9 U	0.46 UJ	**280 J**	**270**
Isopropyl benzene	ug/kg	11 U	11 U	6.9 U	0.34 UJ	**1800**	**1200**
Methyl acetate	ug/kg	23 U	21 U	14 U	2.0 U	**210 J**	**190 J**
Methyl cyclohexane	ug/kg	23 U	21 U	**1.1 J**	0.40 U	**220 J**	**66 J**
Methyl tert butyl ether (MTBE)	ug/kg	46 U	43 U	27 U	0.46 U	32 U	27 U
Methylene chloride	ug/kg	11 U	**3.6 J**	**1.5 J**	0.41 U	81 U	67 U
Styrene	ug/kg	11 U	11 U	6.9 U	0.46 UJ	12 U	10 U
Tetrachloroethene	ug/kg	11 U	11 U	6.9 U	**51 J**	**53 J**	22 U
Toluene	ug/kg	11 U	**1.2 J**	6.9 U	0.58 U	**1000**	**1400**
trans-1,2-Dichloroethene	ug/kg	11 U	11 U	6.9 U	0.65 U	44 U	36 U
Trichloroethene	ug/kg	11 U	11 U	6.9 U	**4.0 J**	46 U	38 U
Trichlorofluoromethane (CFC-11)	ug/kg	11 U	11 U	6.9 U	0.41 U	42 U	35 U
Trifluorotrichloroethane (CFC-113)	ug/kg	11 U	11 U	6.9 U	0.84 U	29 U	24 U
Vinyl chloride	ug/kg	11 U	11 U	6.9 U	0.48 U	21 U	18 U
Xylenes (total)	ug/kg	23 U	**2.6 J**	14 U	0.69 UJ	**1600**	**1300**
Semi-Volatiles							
2,4-Dimethylphenol	ug/kg	160 U	170 U	900 U	210 U	2200 U	1100 U
2-Chlorophenol	ug/kg	55 U	56 U	300 U	88 U	880 U	440 U
2-Methylnaphthalene	ug/kg	**36**	**1100**	**120**	**530**	**600 J**	**1600**
2-Methylphenol	ug/kg	220 U	230 U	1200 U	120 U	1200 U	590 U
3&4-Methylphenol	ug/kg	-	-	-	210 U	2200 U	1100 U
Acenaphthene	ug/kg	7.3 U	7.5 U	40 U	**190**	82 U	41 U
Acenaphthylene	ug/kg	7.3 U	7.5 U	40 U	**53 J**	38 U	19 U
Acetophenone	ug/kg	110 U	110 U	600 U	98 U	990 U	**940 J**

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TP-4**	**TP-4**	**TP-4**	**TP-11**	**TP-12**	**TP-12**
Sample ID:		**S-38443-092408-KMV-012**	**S-38443-092408-KMV-013**	**S-38443-092408-KMV-014**	**S-38443-103117-BW-006**	**S-38443-110117-BW-009**	**S-38443-110117-BW-010**
Sample Date:		**9/24/2008**	**9/24/2008**	**9/24/2008**	**10/31/2017**	**11/1/2017**	**11/1/2017**
Sample Depth:		**5 ft BGS**	**10 ft BGS**	**18.6 ft BGS**	**8-10 ft BGS**	**8-10 ft BGS**	**8-10 ft BGS Duplicate**
Parameters	**Units**						
Anthracene	ug/kg	7.3 U	7.5 U	40 U	**370**	84 U	**350 J**
Benzaldehyde	ug/kg	110 U	110 U	600 U	130 U	1300 U	650 U
Benzo(a)anthracene	ug/kg	**16**	**100**	40 U	**1100**	68 U	**450**
Benzo(a)pyrene	ug/kg	**13**	**44**	40 U	**1000**	69 U	35 U
Benzo(b)fluoranthene	ug/kg	**21**	**110**	**68**	**1400**	64 U	32 U
Benzo(g,h,i)perylene	ug/kg	**11**	**47**	40 U	**780**	38 U	19 U
Benzo(k)fluoranthene	ug/kg	7.3 U	7.5 U	40 U	**510**	73 U	37 U
Biphenyl (1,1-Biphenyl)	ug/kg	55 U	**64**	300 U	**95 J**	380 U	190 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	55 U	56 U	**160 J**	**230 J**	4400 U	**4000**
Butyl benzylphthalate (BBP)	ug/kg	55 U	56 U	300 U	110 U	1100 U	540 U
Carbazole	ug/kg	55 U	56 U	300 U	290 U	2900 U	1500 U
Chrysene	ug/kg	**18**	**120**	40 U	**1200**	120 U	**610**
Dibenz(a,h)anthracene	ug/kg	7.3 U	7.5 U	40 U	**230**	71 U	36 U
Dibenzofuran	ug/kg	55 U	**310**	300 U	**220 J**	71 U	**470 J**
Diethyl phthalate	ug/kg	55 U	56 U	300 U	**530 J**	1700 U	860 U
Dimethyl phthalate	ug/kg	55 U	56 U	300 U	180 U	1800 U	920 U
Di-n-butylphthalate (DBP)	ug/kg	55 U	56 U	300 U	160 U	1600 U	810 U
Di-n-octyl phthalate (DnOP)	ug/kg	55 U	56 U	300 U	84 U	850 U	430 U
Fluoranthene	ug/kg	**30**	**120**	**110**	**2300**	**1100**	**2100**
Fluorene	ug/kg	7.3 U	7.5 U	40 U	**180**	57 U	**920**
Indeno(1,2,3-cd)pyrene	ug/kg	**8.1**	**19**	40 U	**650**	38 U	19 U
Naphthalene	ug/kg	**27**	**620**	**64**	**400**	**510 J**	**3100 J**
N-Nitrosodiphenylamine	ug/kg	55 U	56 U	300 U	220 U	2300 U	1100 U
Phenanthrene	ug/kg	**32**	**610**	**110**	**1600**	**1700 J**	**4000 J**
Phenol	ug/kg	55 U	56 U	300 U	**310 J**	790 U	**390 J**
Pyrene	ug/kg	**24**	**120**	**110**	**1900**	**1000**	**1900**
Metals							
Aluminum	mg/kg	**1050**	**2210**	**5440**	**4300 J**	**1900 J**	**1800 J**
Antimony	mg/kg	6.6 U	6.8 U	**56.6**	**2.4 J**	**4.4 J**	**1.1 J**
Arsenic	mg/kg	**2.4**	**5.5**	**14.3**	**15**	**6.0**	**5.5**
Barium	mg/kg	**59.4**	**189**	**1180**	**960**	**150 J**	**200 J**
Beryllium	mg/kg	**0.18 J**	**0.46 J**	**0.37 J**	**0.80**	**0.49**	**0.46**
Cadmium	mg/kg	**0.069 J**	**0.096 J**	**11.4**	**1.2**	**0.55**	**0.43**
Calcium	mg/kg	**6700**	**1980**	**47100**	**78000**	**3500**	**1400**
Chromium	mg/kg	**2.5**	**6.2**	**65.8**	**280**	**25**	**24**
Chromium III (trivalent)	mg/kg	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-
Cobalt	mg/kg	**2.4 J**	**5.6**	**14.2**	**10**	**3.2**	**3.8**
Copper	mg/kg	**7.9**	**20.8**	**626**	**1700**	**690**	**270**
Iron	mg/kg	**2190**	**1860**	**38900**	**31000**	**21000**	**24000**
Lead	mg/kg	**3.7 J**	**7.6 J**	**549**	**2000**	**270 J**	**250 J**
Lead - coarse fraction	mg/kg	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TP-4**	**TP-4**	**TP-4**	**TP-11**	**TP-12**	**TP-12**
Sample ID:		**S-38443-092408-KMV-012**	**S-38443-092408-KMV-013**	**S-38443-092408-KMV-014**	**S-38443-103117-BW-006**	**S-38443-110117-BW-009**	**S-38443-110117-BW-010**
Sample Date:		**9/24/2008**	**9/24/2008**	**9/24/2008**	**10/31/2017**	**11/1/2017**	**11/1/2017**
Sample Depth:		**5 ft BGS**	**10 ft BGS**	**18.6 ft BGS**	**8-10 ft BGS**	**8-10 ft BGS**	**8-10 ft BGS Duplicate**
Parameters	**Units**						
Magnesium	mg/kg	**2770**	**419 J**	**9910**	**40000**	**930**	**510**
Manganese	mg/kg	**36.8**	**6.9**	**364**	**380 J**	**190**	**160**
Mercury	mg/kg	0.11 U	**0.058 J**	**0.17**	**0.12**	**0.026 J**	**0.053 J**
Nickel	mg/kg	**4.5**	**11.3**	**95.8**	**120**	**70 J**	**49 J**
Potassium	mg/kg	**160 J**	**980**	**683**	**630**	**330**	**280**
Selenium	mg/kg	27.5 U	**1.1 J**	**0.64 J**	**1.3**	0.63 U	0.64 U
Silver	mg/kg	**0.11 J**	1.1 U	**1.9**	**0.29**	**0.18**	**0.14 J**
Sodium	mg/kg	550 U	**92.4 J**	**527 J**	170 U	**150**	140 U
Thallium	mg/kg	0.11 U	**0.27**	**0.16**	**0.43**	**0.091 J**	**0.11 J**
Vanadium	mg/kg	**6.4**	**16.6**	**19.0**	**20**	**6.2**	**14**
Zinc	mg/kg	**7.7 J**	**12.7 J**	**1030 J**	**510**	**150**	**190**
PCBs							
Aroclor-1242 (PCB-1242)	ug/kg	36 U	37 U	40 U	21 UJ	220 U	110 U
Aroclor-1248 (PCB-1248)	ug/kg	36 U	37 U	40 U	18 UJ	190 U	91 U
Aroclor-1254 (PCB-1254)	ug/kg	36 U	37 U	**140**	**290 J**	**8400 J**	**2500 J**
Aroclor-1260 (PCB-1260)	ug/kg	36 U	37 U	40 U	19 U	200 U	96 U
Pesticides							
4,4'-DDD	ug/kg	37 U	38 U	41 U	17 U	70 U	72 U
4,4'-DDE	ug/kg	**12 J**	**17 J**	**17 J**	**16 NJ**	25 U	26 U
4,4'-DDT	ug/kg	37 UJ	38 U	41 UJ	**23 J**	30 U	30 U
alpha-Chlordane	ug/kg	37 U	38 U	41 U	20 U	80 U	83 U
Dieldrin	ug/kg	37 U	**24 J**	41 U	4.7 U	19 U	20 U
Endosulfan I	ug/kg	37 U	38 U	41 U	6.8 U	27 U	28 U
Endosulfan II	ug/kg	37 U	**22 J**	41 U	9.4 U	38 U	39 U
Endosulfan sulfate	ug/kg	37 U	38 U	41 U	6.3 U	25 U	26 U
Endrin	ug/kg	37 U	38 U	41 U	7.3 U	30 U	30 U
Endrin aldehyde	ug/kg	37 U	38 U	41 U	9.4 U	38 U	39 U
Endrin ketone	ug/kg	37 U	38 U	41 U	5.8 U	23 U	24 U
gamma-BHC (lindane)	ug/kg	37 U	38 U	41 U	15 U	61 U	63 U
gamma-Chlordane	ug/kg	37 U	38 U	41 U	7.8 U	32 U	33 U
Heptachlor epoxide	ug/kg	37 U	38 U	41 U	13 U	51 U	52 U
Methoxychlor	ug/kg	73 UJ	74 U	80 UJ	6.3 U	25 U	26 U
Dioxin/Furans							
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	**150**	9.2 U	11 U
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	**4500**	**350**	**550**
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	**130**	**8.2 J**	**9.0 J**
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	**390**	**31**	**53**
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	**4.5 J**	0.55 U	**1.3 J**
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	**17 J**	**5.8 J**	**6.7 J**
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	0.23 U	**1.2 J**	**1.9 J**
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	**14 J**	**2.2 J**	**2.5 J**
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	**16 J**	**4.7 J**	**4.8 J**

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TP-4**	**TP-4**	**TP-4**	**TP-11**	**TP-12**	**TP-12**
Sample ID:		**S-38443-092408-KMV-012**	**S-38443-092408-KMV-013**	**S-38443-092408-KMV-014**	**S-38443-103117-BW-006**	**S-38443-110117-BW-009**	**S-38443-110117-BW-010**
Sample Date:		**9/24/2008**	**9/24/2008**	**9/24/2008**	**10/31/2017**	**11/1/2017**	**11/1/2017**
Sample Depth:		**5 ft BGS**	**10 ft BGS**	**18.6 ft BGS**	**8-10 ft BGS**	**8-10 ft BGS**	**8-10 ft BGS Duplicate**
Parameters	**Units**						
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	1.7 U	0.31 U	0.31 U
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	**9.8 J**	**3.6 J**	**5.3 J**
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	**2.5 J**	**0.66 J**	**0.75 J**
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	**5.5 J**	**6.5 J**	**6.0 J**
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	**7.5 J**	**1.2 J**	**1.2 J**
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	**5.8 J**	**1.9 J**	**2.0 J**
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	**16**	**3.5**	**3.7**
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	**0.74 J**	0.21 U	0.19 U
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	**350 J**	**20 J**	**24 J**
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	**730 J**	**66 J**	**110 J**
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	**200 J**	**24 J**	**27 J**
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	**120 J**	**40 J**	**55 J**
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	**340 J**	**20 J**	**20 J**
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	**450 J**	**1700 J**	**610 J**
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	**650 J**	**37 J**	**43 J**
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	**28 J**	**6.1 J**	**7.2 J**
Asbestos							
Chrysotile asbestos	%	-	-	-	-	-	-
Geotechnical							
Coarse sand	%	-	-	-	-	-	-
Fine sand	%	-	-	-	-	-	-
Fines	%	-	-	-	-	-	-
Gravel	%	-	-	-	-	-	-
Medium sand	%	-	-	-	-	-	-
Sand	%	-	-	-	-	-	-
Sieve, #4	% passed	-	-	-	-	-	-
Sieve, #10	% passed	-	-	-	-	-	-
Sieve, #20	% passed	-	-	-	-	-	-
Sieve, #40	% passed	-	-	-	-	-	-
Sieve, #60	% passed	-	-	-	-	-	-
Sieve, #80	% passed	-	-	-	-	-	-
Sieve, #100	% passed	-	-	-	-	-	-
Sieve, #200	% passed	-	-	-	-	-	-
Sieve, 0.375 inch	% passed	-	-	-	-	-	-
Sieve, 0.75 inch	% passed	-	-	-	-	-	-
Sieve, 1 inch	% passed	-	-	-	-	-	-
Sieve, 1.5 inch	% passed	-	-	-	-	-	-
Sieve, 2 inch	% passed	-	-	-	-	-	-
Sieve, 3 inch	% passed	-	-	-	-	-	-
General Chemistry							
Cyanide (total)	mg/kg	0.55 U	0.56 U	0.60 U	0.45 U	0.45 U	0.51 U
Fraction organic carbon (FOC)	%	-	-	-	-	-	-

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TP-4**	**TP-4**	**TP-4**	**TP-11**	**TP-12**	**TP-12**
Sample ID:		**S-38443-092408-KMV-012**	**S-38443-092408-KMV-013**	**S-38443-092408-KMV-014**	**S-38443-103117-BW-006**	**S-38443-110117-BW-009**	**S-38443-110117-BW-010**
Sample Date:		**9/24/2008**	**9/24/2008**	**9/24/2008**	**10/31/2017**	**11/1/2017**	**11/1/2017**
Sample Depth:		**5 ft BGS**	**10 ft BGS**	**18.6 ft BGS**	**8-10 ft BGS**	**8-10 ft BGS**	**8-10 ft BGS**
							Duplicate
Parameters	**Units**						
Total solids	%	**91.0**	**88.7**	**83.0**	-	-	-

Notes
< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
D - Compounds at secondary dilution factor.
E - Estimated because of the presence of interference (Inorganics).
E - Exceed calibration range of GC/MS instrument (Organics).
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%. The
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TP-14**	**TP-15**	**TP-16**	**TT-15**	**TT-15**	**TT-31**	**TT-31**
Sample ID:		**S-38443-103117-BW-004**	**S-38443-103017-BW-002**	**S-38443-103117-BW-008**	**S-38443-092508-KMV-016**	**S-38443-092508-KMV-016-D**	**TT-31**	**S-38443-110717-BW-028**
Sample Date:		**10/31/2017**	**10/30/2017**	**10/31/2017**	**9/25/2008**	**9/25/2008**	**11/7/2017**	**11/7/2017**
Sample Depth:		**8-10 ft BGS**	**10-12 ft BGS**	**4-6 ft BGS**	**8.6 ft BGS**	**8.6 ft BGS**	**8-10 ft BGS**	**14-15 ft BGS**
						Duplicate		
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/kg	0.39 UJ	R	0.30 U	5.0 U	4.8 U	-	**1.2 J**
1,1,2-Trichloroethane	ug/kg	R	R	0.50 U	5.0 U	4.8 U	-	0.79 U
1,1-Dichloroethane	ug/kg	0.56 UJ	R	0.43 U	5.0 U	4.8 U	-	**33**
1,1-Dichloroethene	ug/kg	0.92 UJ	R	0.70 U	5.0 U	4.8 U	-	1.1 U
1,2,4-Trichlorobenzene	ug/kg	R	R	0.31 U	5.0 U	4.8 U	-	0.49 U
1,2-Dichlorobenzene	ug/kg	R	R	0.28 U	5.0 U	4.8 U	-	0.45 U
1,2-Dichloroethene (total)	ug/kg	-	-	-	-	-	-	-
1,3-Dichlorobenzene	ug/kg	R	R	0.37 U	5.0 U	4.8 U	-	0.59 U
1,4-Dichlorobenzene	ug/kg	R	R	0.45 U	5.0 U	4.8 U	-	0.71 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	**4.9 J**	**4.0 J**	1.6 U	20 U	19 U	-	2.6 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	R	R	1.1 U	20 U	19 U	-	1.8 U
Acetone	ug/kg	5.2 UJ	R	3.9 U	20 U	19 U	-	22 U
Benzene	ug/kg	0.54 UJ	R	0.41 U	5.0 U	4.8 U	-	**1.0 J**
Carbon disulfide	ug/kg	**0.60 J**	**0.54 J**	0.27 U	5.0 U	4.8 U	-	0.43 U
Carbon tetrachloride	ug/kg	0.43 UJ	R	0.32 U	5.0 U	4.8 U	-	0.51 U
Chlorobenzene	ug/kg	R	**4.3 J**	0.43 U	5.0 U	4.8 U	-	0.67 U
Chloroethane	ug/kg	0.65 UJ	R	0.49 U	5.0 U	4.8 U	-	0.77 U
cis-1,2-Dichloroethene	ug/kg	0.48 UJ	R	0.36 U	5.0 U	4.8 U	-	0.57 U
Cyclohexane	ug/kg	0.36 UJ	R	0.27 U	10 U	9.5 U	-	0.43 U
Ethylbenzene	ug/kg	R	R	0.35 U	5.0 U	4.8 U	-	0.55 U
Isopropyl benzene	ug/kg	R	R	0.26 U	5.0 U	4.8 U	-	0.41 U
Methyl acetate	ug/kg	2.0 UJ	R	1.5 U	10 U	9.5 U	-	2.4 U
Methyl cyclohexane	ug/kg	0.39 UJ	R	0.30 U	10 U	9.5 U	-	0.47 U
Methyl tert butyl ether (MTBE)	ug/kg	0.46 UJ	R	0.35 U	20 U	19 U	-	0.55 U
Methylene chloride	ug/kg	0.41 UJ	R	0.31 U	5.0 U	4.8 U	-	6.3 U
Styrene	ug/kg	R	R	0.35 U	5.0 U	4.8 U	-	0.55 U
Tetrachloroethene	ug/kg	R	R	0.48 U	5.0 U	4.8 U	-	0.75 U
Toluene	ug/kg	**0.70 J**	**0.42 J**	0.44 U	5.0 U	4.8 U	-	**0.80 J**
trans-1,2-Dichloroethene	ug/kg	0.65 UJ	R	0.49 U	5.0 U	4.8 U	-	0.77 U
Trichloroethene	ug/kg	0.70 UJ	R	0.53 U	5.0 U	4.8 U	-	0.83 U
Trichlorofluoromethane (CFC-11)	ug/kg	0.41 UJ	R	0.31 U	5.0 U	4.8 U	-	0.49 U
Trifluorotrichloroethane (CFC-113)	ug/kg	R	R	0.63 U	5.0 U	4.8 U	-	1.0 U
Vinyl chloride	ug/kg	0.48 UJ	R	0.36 U	5.0 U	4.8 U	-	0.57 U
Xylenes (total)	ug/kg	R	R	0.52 U	10 U	9.5 U	-	**1.4 J**
Semi-Volatiles								
2,4-Dimethylphenol	ug/kg	**33 J**	24 U	21 U	1700 U	1700 U	-	50 U
2-Chlorophenol	ug/kg	9.9 U	9.8 U	8.7 U	570 U	580 U	-	20 U
2-Methylnaphthalene	ug/kg	**440**	**130**	**9.0**	77 U	77 U	-	**170**
2-Methylphenol	ug/kg	**15 J**	**20 J**	12 U	2300 U	2300 U	-	27 U
3&4-Methylphenol	ug/kg	**29 J**	**28 J**	21 U	-	-	-	50 U
Acenaphthene	ug/kg	**43**	**23**	0.81 U	77 U	77 U	-	1.9 U
Acenaphthylene	ug/kg	**17**	**31**	**11**	77 U	77 U	-	**15 J**
Acetophenone	ug/kg	**43 J**	**19 J**	9.8 U	1100 U	1200 U	-	**190 J**

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TP-14**	**TP-15**	**TP-16**	**TT-15**	**TT-15**	**TT-31**	**TT-31**
Sample ID:		**S-38443-103117-BW-004**	**S-38443-103017-BW-002**	**S-38443-103117-BW-008**	**S-38443-092508-KMV-016**	**S-38443-092508-KMV-016-D**	**TT-31**	**S-38443-110717-BW-028**
Sample Date:		**10/31/2017**	**10/30/2017**	**10/31/2017**	**9/25/2008**	**9/25/2008**	**11/7/2017**	**11/7/2017**
Sample Depth:		**8-10 ft BGS**	**10-12 ft BGS**	**4-6 ft BGS**	**8.6 ft BGS**	**8.6 ft BGS**	**8-10 ft BGS**	**14-15 ft BGS**
						Duplicate		
Parameters	**Units**							
Anthracene	ug/kg	**27**	**36**	**16**	77 U	77 U	-	**51**
Benzaldehyde	ug/kg	**38 J**	**21 J**	13 U	1100 U	1200 U	-	**140 J**
Benzo(a)anthracene	ug/kg	**61**	**130**	**86**	77 U	77 U	-	**230**
Benzo(a)pyrene	ug/kg	**46**	**120**	**97**	77 U	77 U	-	**230**
Benzo(b)fluoranthene	ug/kg	**72**	**170**	**170**	77 U	77 U	-	**510**
Benzo(g,h,i)perylene	ug/kg	**44**	**98**	**48**	77 U	77 U	-	**290**
Benzo(k)fluoranthene	ug/kg	**21**	**77**	**67**	77 U	77 U	-	**150**
Biphenyl (1,1-Biphenyl)	ug/kg	**45 J**	**17 J**	3.7 U	570 U	580 U	-	**130**
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	**67 J**	**75 J**	45 U	570 U	580 U	-	**2100**
Butyl benzylphthalate (BBP)	ug/kg	12 U	12 U	11 U	570 U	580 U	-	25 U
Carbazole	ug/kg	33 U	32 U	29 U	570 U	580 U	-	67 U
Chrysene	ug/kg	**89**	**160**	**91**	77 U	77 U	-	**410**
Dibenz(a,h)anthracene	ug/kg	**15**	**26**	0.70 U	77 U	77 U	-	**76**
Dibenzofuran	ug/kg	**120**	**40 J**	0.70 U	570 U	580 U	-	**150**
Diethyl phthalate	ug/kg	19 U	19 U	17 U	570 U	580 U	-	**43 J**
Dimethyl phthalate	ug/kg	21 U	20 U	18 U	570 U	580 U	-	42 U
Di-n-butylphthalate (DBP)	ug/kg	18 U	18 U	**28 J**	570 U	580 U	-	37 U
Di-n-octyl phthalate (DnOP)	ug/kg	9.6 U	9.4 U	8.4 U	570 U	580 U	-	20 U
Fluoranthene	ug/kg	**100**	**290**	**150**	**120**	**110**	-	**540**
Fluorene	ug/kg	**63**	**26**	**4.8 J**	77 U	77 U	-	**18**
Indeno(1,2,3-cd)pyrene	ug/kg	**22**	**78**	**37**	77 U	77 U	-	**230**
Naphthalene	ug/kg	**230**	**76**	**8.0**	77 U	77 U	-	**270**
N-Nitrosodiphenylamine	ug/kg	25 U	25 U	22 U	570 U	580 U	-	52 U
Phenanthrene	ug/kg	**360**	**230**	**61**	77 U	77 U	-	**470**
Phenol	ug/kg	8.9 U	**27 J**	7.7 U	570 U	580 U	-	18 U
Pyrene	ug/kg	**110**	**270**	**170**	**89**	**78**	-	**450**
Metals								
Aluminum	mg/kg	**5300 J**	**5800 J**	**3000 J**	**3670**	**3990**	-	**16000**
Antimony	mg/kg	**0.28 J**	**0.37 J**	**0.18 J**	34.4 UJ	34.5 UJ	-	**97**
Arsenic	mg/kg	**12**	**12**	**4.0**	**11.0 J**	**7.2 J**	-	**20**
Barium	mg/kg	**120**	**130**	**31**	**31.8**	**27.7**	-	**2300**
Beryllium	mg/kg	**1.4**	**0.67**	**0.18**	**0.088 J**	**0.099 J**	-	**0.59**
Cadmium	mg/kg	**0.21**	**5.1**	**0.17**	**4.5**	**3.4**	-	**30**
Calcium	mg/kg	**46000**	**65000**	**120000**	**15100**	**20200**	-	**65000**
Chromium	mg/kg	**11**	**12**	**6.0**	**132 J**	**75.6 J**	-	**170**
Chromium III (trivalent)	mg/kg	-	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-	-
Cobalt	mg/kg	**7.1**	**5.3**	**3.2**	**9.6 J**	**7.0 J**	-	**19**
Copper	mg/kg	**27**	**72**	**14**	**163**	**108**	-	**8600**
Iron	mg/kg	**9300**	**10000**	**8400**	**124000**	**77000**	-	**58000**
Lead	mg/kg	**20**	**180**	**23**	**70.4**	**64.2**	-	**3500**
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TP-14**	**TP-15**	**TP-16**	**TT-15**	**TT-15**	**TT-31**	**TT-31**
Sample ID:		**S-38443-103117-BW-004**	**S-38443-103017-BW-002**	**S-38443-103117-BW-008**	**S-38443-092508-KMV-016**	**S-38443-092508-KMV-016-D**	**TT-31**	**S-38443-110717-BW-028**
Sample Date:		**10/31/2017**	**10/30/2017**	**10/31/2017**	**9/25/2008**	**9/25/2008**	**11/7/2017**	**11/7/2017**
Sample Depth:		**8-10 ft BGS**	**10-12 ft BGS**	**4-6 ft BGS**	**8.6 ft BGS**	**8.6 ft BGS**	**8-10 ft BGS**	**14-15 ft BGS**
						Duplicate		
Parameters	**Units**							
Magnesium	mg/kg	**21000**	**25000**	**45000**	**7050**	**11000**	-	**22000**
Manganese	mg/kg	**140 J**	**270 J**	**280 J**	**2200**	**1690**	-	**700**
Mercury	mg/kg	**0.15**	**0.064 J**	**0.039 J**	**0.023 J**	**0.023 J**	-	**0.17**
Nickel	mg/kg	**15**	**20**	**7.5**	**105**	**57.8**	-	**150**
Potassium	mg/kg	**1100**	**610**	**410**	**388 J**	**375 J**	-	**1700**
Selenium	mg/kg	**2.4**	**4.3**	0.70 U	143 U	144 U	-	**2.1**
Silver	mg/kg	**0.044 J**	**0.062 J**	**0.024 J**	1.1 U	1.2 U	-	**6.5**
Sodium	mg/kg	170 U	140 U	130 U	574 U	575 U	-	**1400**
Thallium	mg/kg	**0.51**	**0.40 J**	**0.098 J**	0.11 U	0.12 U	-	**0.19 J**
Vanadium	mg/kg	**22**	**19**	**11**	**11.8 J**	**13.1 J**	-	**30**
Zinc	mg/kg	**37**	**310**	**34**	**430 J**	**353 J**	-	**9000**
PCBs								
Aroclor-1242 (PCB-1242)	ug/kg	120 U	24 U	21 UJ	38 U	38 U	-	**1900**
Aroclor-1248 (PCB-1248)	ug/kg	**2700**	20 U	18 UJ	38 U	38 U	-	110 U
Aroclor-1254 (PCB-1254)	ug/kg	86 U	**28 J**	15 U	38 U	38 U	-	**3800**
Aroclor-1260 (PCB-1260)	ug/kg	110 U	22 U	19 U	**35 J**	38 U	-	110 U
Pesticides								
4,4'-DDD	ug/kg	40 U	19 U	3.6 U	39 U	39 U	-	41 U
4,4'-DDE	ug/kg	15 U	6.9 U	1.3 U	39 U	39 U	-	15 U
4,4'-DDT	ug/kg	17 U	8.1 U	1.5 U	39 U	39 U	-	17 U
alpha-Chlordane	ug/kg	46 U	22 U	4.1 U	39 U	39 U	-	47 U
Dieldrin	ug/kg	11 U	5.2 U	0.97 U	39 U	39 U	-	11 U
Endosulfan I	ug/kg	16 U	7.5 U	1.4 U	39 U	39 U	-	16 U
Endosulfan II	ug/kg	22 U	10 U	1.9 U	39 U	39 U	-	22 U
Endosulfan sulfate	ug/kg	15 U	6.9 U	1.3 U	39 U	39 U	-	15 U
Endrin	ug/kg	17 U	8.1 U	1.5 U	39 U	39 U	-	**49 NJ**
Endrin aldehyde	ug/kg	22 U	10 U	1.9 U	39 U	39 U	-	**40 J**
Endrin ketone	ug/kg	13 U	6.3 U	1.2 U	39 U	39 U	-	14 U
gamma-BHC (lindane)	ug/kg	35 U	17 U	3.1 U	39 U	39 U	-	36 U
gamma-Chlordane	ug/kg	18 U	8.7 U	1.6 U	39 U	39 U	-	19 U
Heptachlor epoxide	ug/kg	29 U	14 U	2.6 U	39 U	39 U	-	**34 NJ**
Methoxychlor	ug/kg	15 U	**9.5 J**	**2.1 J**	76 U	76 U	-	**19 J**
Dioxin/Furans								
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	7.4 U	-	**18**	-	-	-	**2300**
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	**71**	-	**220**	-	-	-	**2200**
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	**4.8 J**	-	**7.0**	-	-	-	**1800**
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	**9.9**	-	**19**	-	-	-	**700**
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	**0.55 J**	-	**0.49 J**	-	-	-	**240**
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	**2.9 J**	-	**1.9 J**	-	-	-	**960**
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	**0.41 J**	-	**0.34 J**	-	-	-	51 U
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	**1.6 J**	-	**4.2 J**	-	-	-	**330**
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	**0.78 J**	-	**1.2 J**	-	-	-	**100**

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TP-14**	**TP-15**	**TP-16**	**TT-15**	**TT-15**	**TT-31**	**TT-31**
Sample ID:		**S-38443-103117-BW-004**	**S-38443-103017-BW-002**	**S-38443-103117-BW-008**	**S-38443-092508-KMV-016**	**S-38443-092508-KMV-016-D**	**TT-31**	**S-38443-110717-BW-028**
Sample Date:		**10/31/2017**	**10/30/2017**	**10/31/2017**	**9/25/2008**	**9/25/2008**	**11/7/2017**	**11/7/2017**
Sample Depth:		**8-10 ft BGS**	**10-12 ft BGS**	**4-6 ft BGS**	**8.6 ft BGS**	**8.6 ft BGS**	**8-10 ft BGS**	**14-15 ft BGS**
						Duplicate		
Parameters	**Units**							
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	0.094 U	-	0.049 U	-	-	-	25 U
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	**1.0 J**	-	**0.88 J**	-	-	-	**140**
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	**1.1 J**	-	0.064 U	-	-	-	**210**
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	**1.3 J**	-	**0.65 J**	-	-	-	**110 J**
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	**0.82 J**	-	**1.3 J**	-	-	-	**330**
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	**2.6 J**	-	**1.3 J**	-	-	-	**440**
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	**2.1 J**	-	**1.3**	-	-	-	**280**
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	**0.17 J**	-	**0.27 J**	-	-	-	**21 J**
Total heptachlorodibenzofuran (HpCDF)	pg/g	**11 J**	-	**23 J**	-	-	-	**2700 J**
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	**19 J**	-	**35 J**	-	-	-	**1400 J**
Total hexachlorodibenzofuran (HxCDF)	pg/g	**21 J**	-	**57 J**	-	-	-	**3200 J**
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	**9.7 J**	-	**11 J**	-	-	-	**1600 J**
Total pentachlorodibenzofuran (PeCDF)	pg/g	**43 J**	-	**140 J**	-	-	-	**4800 J**
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	**250 J**	-	**16 J**	-	-	-	**13000 J**
Total tetrachlorodibenzofuran (TCDF)	pg/g	**54 J**	-	**130 J**	-	-	-	**8300 J**
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	**5.6 J**	-	**3.6 J**	-	-	-	**1400 J**
Asbestos								
Chrysotile asbestos	%	-	-	-	-	-	1 <	-
Geotechnical								
Coarse sand	%	-	-	-	-	-	-	-
Fine sand	%	-	-	-	-	-	-	-
Fines	%	-	-	-	-	-	-	-
Gravel	%	-	-	-	-	-	-	-
Medium sand	%	-	-	-	-	-	-	-
Sand	%	-	-	-	-	-	-	-
Sieve, #4	% passed	-	-	-	-	-	-	-
Sieve, #10	% passed	-	-	-	-	-	-	-
Sieve, #20	% passed	-	-	-	-	-	-	-
Sieve, #40	% passed	-	-	-	-	-	-	-
Sieve, #60	% passed	-	-	-	-	-	-	-
Sieve, #80	% passed	-	-	-	-	-	-	-
Sieve, #100	% passed	-	-	-	-	-	-	-
Sieve, #200	% passed	-	-	-	-	-	-	-
Sieve, 0.375 inch	% passed	-	-	-	-	-	-	-
Sieve, 0.75 inch	% passed	-	-	-	-	-	-	-
Sieve, 1 inch	% passed	-	-	-	-	-	-	-
Sieve, 1.5 inch	% passed	-	-	-	-	-	-	-
Sieve, 2 inch	% passed	-	-	-	-	-	-	-
Sieve, 3 inch	% passed	-	-	-	-	-	-	-
General Chemistry								
Cyanide (total)	mg/kg	0.50 U	0.53 U	0.49 U	0.57 U	0.58 U	-	0.57 UJ
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TP-14**	**TP-15**	**TP-16**	**TT-15**	**TT-15**	**TT-31**	**TT-31**
Sample ID:		**S-38443-103117-BW-004**	**S-38443-103017-BW-002**	**S-38443-103117-BW-008**	**S-38443-092508-KMV-016**	**S-38443-092508-KMV-016-D**	**TT-31**	**S-38443-110717-BW-028**
Sample Date:		**10/31/2017**	**10/30/2017**	**10/31/2017**	**9/25/2008**	**9/25/2008**	**11/7/2017**	**11/7/2017**
Sample Depth:		**8-10 ft BGS**	**10-12 ft BGS**	**4-6 ft BGS**	**8.6 ft BGS**	**8.6 ft BGS**	**8-10 ft BGS**	**14-15 ft BGS**
						Duplicate		
Parameters	**Units**							
Total solids	%	-	-	-	**87.2**	**86.9**	-	-

Notes
< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
D - Compounds at secondary dilution factor.
E - Estimated because of the presence of interference (Inorganics).
E - Exceed calibration range of GC/MS instrument (Organics).
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%. The
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-32**	**TT-33**	**TT-33**	**TT-34**	**TT-35**	**TT-36**	**TT-36**	**TT-37**
Sample ID:		**S-38443-110717-BW-030**	**TT-33**	**S-38443-110317-BW-020**	**S-38443-110717-BW-027**	**S-38443-110617-BW-025**	**S-38443-110617-BW-024**	**TT-36**	**TT-37**
Sample Date:		**11/7/2017**	**11/3/2017**	**11/3/2017**	**11/7/2017**	**11/6/2017**	**11/6/2017**	**11/6/2017**	**11/6/2017**
Sample Depth:		**12-14 ft BGS**	**2-4 ft BGS**	**12-14 ft BGS**	**8-10 ft BGS**	**12-14 ft BGS**	**2-4 ft BGS**	**8-10 ft BGS**	**4-6 ft BGS**
Parameters	**Units**								
Volatiles									
1,1,1-Trichloroethane	ug/kg	0.40 U	-	42 U	**1.1 J**	**1.8 J**	**69 J**	-	-
1,1,2-Trichloroethane	ug/kg	0.68 U	-	35 U	0.98 U	R	45 U	-	-
1,1-Dichloroethane	ug/kg	0.57 U	-	**390**	0.83 U	0.71 U	60 U	-	-
1,1-Dichloroethene	ug/kg	0.94 U	-	55 U	1.4 U	1.2 U	70 U	-	-
1,2,4-Trichlorobenzene	ug/kg	0.42 U	-	**61 J**	0.60 U	0.52 UJ	**83 J**	-	-
1,2-Dichlorobenzene	ug/kg	0.38 U	-	27 U	0.55 U	0.47 UJ	**250 J**	-	-
1,2-Dichloroethene (total)	ug/kg	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	ug/kg	0.50 U	-	58 U	0.73 U	0.62 UJ	74 U	-	-
1,4-Dichlorobenzene	ug/kg	0.61 U	-	41 U	0.88 U	0.75 UJ	**12000**	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	2.2 U	-	**91 J**	3.2 U	2.7 U	**1900**	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	1.5 U	-	**140 J**	2.2 U	R	**940 J**	-	-
Acetone	ug/kg	17 U	-	150 U	17 U	27 U	190 U	-	-
Benzene	ug/kg	0.56 U	-	36 U	0.80 U	0.69 U	47 U	-	-
Carbon disulfide	ug/kg	0.37 U	-	27 U	0.53 U	**2.6 J**	35 U	-	-
Carbon tetrachloride	ug/kg	0.43 U	-	41 U	0.63 U	**2.7 J**	52 U	-	-
Chlorobenzene	ug/kg	0.57 U	-	45 U	0.83 U	R	**170 J**	-	-
Chloroethane	ug/kg	0.66 U	-	42 U	0.95 U	0.82 U	54 U	-	-
cis-1,2-Dichloroethene	ug/kg	0.49 U	-	53 U	0.70 U	0.60 U	68 U	-	-
Cyclohexane	ug/kg	0.37 U	-	**45 J**	0.53 U	0.45 U	**160 J**	-	-
Ethylbenzene	ug/kg	0.47 U	-	53 U	0.68 U	R	**2200**	-	-
Isopropyl benzene	ug/kg	0.35 U	-	52 U	0.50 U	R	**430 J**	-	-
Methyl acetate	ug/kg	2.0 U	-	**340 J**	2.9 U	2.5 U	**240 J**	-	-
Methyl cyclohexane	ug/kg	0.40 U	-	**130 J**	0.58 U	0.49 U	**380 J**	-	-
Methyl tert butyl ether (MTBE)	ug/kg	0.47 U	-	39 U	0.68 U	0.58 U	50 U	-	-
Methylene chloride	ug/kg	6.3 U	-	99 U	9.8 U	6.7 U	130 U	-	-
Styrene	ug/kg	0.47 U	-	**16 J**	0.68 U	R	19 U	-	-
Tetrachloroethene	ug/kg	0.64 U	-	32 U	**2.5 J**	**5.0 J**	**180 J**	-	-
Toluene	ug/kg	**0.89 J**	-	74 U	0.85 U	R	**1600**	-	-
trans-1,2-Dichloroethene	ug/kg	0.66 U	-	53 U	0.95 U	0.82 U	68 U	-	-
Trichloroethene	ug/kg	0.71 U	-	56 U	1.0 U	**17 J**	72 U	-	-
Trichlorofluoromethane (CFC-11)	ug/kg	0.42 U	-	52 U	0.60 U	0.52 U	**79 J**	-	-
Trifluorotrichloroethane (CFC-113)	ug/kg	0.85 U	-	35 U	1.2 U	1.1 U	45 U	-	-
Vinyl chloride	ug/kg	0.49 U	-	26 U	0.70 U	0.60 U	33 U	-	-
Xylenes (total)	ug/kg	**0.89 J**	-	**200 J**	1.0 U	R	**19000**	-	-
Semi-Volatiles									
2,4-Dimethylphenol	ug/kg	120 U	-	240 U	100 U	98 U	620 U	-	-
2-Chlorophenol	ug/kg	50 U	-	97 U	41 U	40 U	250 U	-	-
2-Methylnaphthalene	ug/kg	**930**	-	**3600**	**380**	**140**	**9300**	-	-
2-Methylphenol	ug/kg	67 U	-	130 U	56 U	54 U	340 U	-	-
3&4-Methylphenol	ug/kg	120 U	-	**490 J**	100 U	98 U	620 U	-	-
Acenaphthene	ug/kg	4.6 U	-	**110**	**43**	3.7 U	**760**	-	-
Acenaphthylene	ug/kg	**210**	-	4.2 U	**40**	1.7 U	**230**	-	-
Acetophenone	ug/kg	**290 J**	-	110 U	**74 J**	**49 J**	**3900**	-	-

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-32**	**TT-33**	**TT-33**	**TT-34**	**TT-35**	**TT-36**	**TT-36**	**TT-37**
Sample ID:		**S-38443-110717-BW-030**	**TT-33**	**S-38443-110317-BW-020**	**S-38443-110717-BW-027**	**S-38443-110617-BW-025**	**S-38443-110617-BW-024**	**TT-36**	**TT-37**
Sample Date:		**11/7/2017**	**11/3/2017**	**11/3/2017**	**11/7/2017**	**11/6/2017**	**11/6/2017**	**11/6/2017**	**11/6/2017**
Sample Depth:		**12-14 ft BGS**	**2-4 ft BGS**	**12-14 ft BGS**	**8-10 ft BGS**	**12-14 ft BGS**	**2-4 ft BGS**	**8-10 ft BGS**	**4-6 ft BGS**
Parameters	**Units**								
Anthracene	ug/kg	**220**	-	**110**	**97**	**26 J**	**490**	-	-
Benzaldehyde	ug/kg	**200 J**	-	140 U	**130 J**	**65 J**	370 U	-	-
Benzo(a)anthracene	ug/kg	**770**	-	**130**	**930**	**86**	**430**	-	-
Benzo(a)pyrene	ug/kg	**810**	-	**130**	**950**	**71**	**230**	-	-
Benzo(b)fluoranthene	ug/kg	**1100**	-	**150**	**1300**	**110**	**350**	-	-
Benzo(g,h,i)perylene	ug/kg	**930**	-	4.2 U	**840**	**72**	**210**	-	-
Benzo(k)fluoranthene	ug/kg	**380**	-	8.1 U	**420**	**33**	**110 J**	-	-
Biphenyl (1,1-Biphenyl)	ug/kg	**100 J**	-	**290 J**	**54 J**	**32 J**	**1300 J**	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	**370 J**	-	400 U	**1300**	**170 J**	**5300**	-	-
Butyl benzylphthalate (BBP)	ug/kg	**160 J**	-	120 U	**180 J**	49 U	**1700 J**	-	-
Carbazole	ug/kg	160 U	-	320 U	140 U	130 U	840 U	-	-
Chrysene	ug/kg	**870**	-	**190**	**950**	**130**	**520**	-	-
Dibenz(a,h)anthracene	ug/kg	**210**	-	7.8 U	**220**	3.2 U	20 U	-	-
Dibenzofuran	ug/kg	**340**	-	**230 J**	**130 J**	**55 J**	**1000 J**	-	-
Diethyl phthalate	ug/kg	97 U	-	190 U	**95 J**	78 U	500 U	-	-
Dimethyl phthalate	ug/kg	100 U	-	200 U	86 U	83 U	530 U	-	-
Di-n-butylphthalate (DBP)	ug/kg	**260 J**	-	**540 J**	**95 J**	73 U	460 U	-	-
Di-n-octyl phthalate (DnOP)	ug/kg	48 U	-	94 U	40 U	39 U	240 U	-	-
Fluoranthene	ug/kg	**1400**	-	**320**	**1400**	**160**	**1500**	-	-
Fluorene	ug/kg	**88**	-	**280**	**20 J**	2.6 U	**1100**	-	-
Indeno(1,2,3-cd)pyrene	ug/kg	**620**	-	4.2 U	**720**	**46**	11 U	-	-
Naphthalene	ug/kg	**730**	-	**3300**	**290**	**110**	**3800**	-	-
N-Nitrosodiphenylamine	ug/kg	130 U	-	250 U	110 U	100 U	650 U	-	-
Phenanthrene	ug/kg	**1300**	-	**1000**	**520**	**230**	**3800**	-	-
Phenol	ug/kg	44 U	-	87 U	37 U	36 U	**1400 J**	-	-
Pyrene	ug/kg	**1200**	-	**260**	**1200**	**170**	**1600**	-	-
Metals									
Aluminum	mg/kg	**2700**	-	**2100 J**	**8200**	**6900**	**6900**	-	-
Antimony	mg/kg	**3.5**	-	**0.40 J**	**120**	**6.3**	**8.2**	-	-
Arsenic	mg/kg	**6.4**	-	**8.3**	**21**	**27**	**29**	-	-
Barium	mg/kg	**150**	-	**43**	**230**	**1300**	**1600**	-	-
Beryllium	mg/kg	**0.47**	-	**0.20**	**1.4**	**2.7**	**0.71**	-	-
Cadmium	mg/kg	**3.8**	-	**0.29**	**22**	**7.9**	**54**	-	-
Calcium	mg/kg	**27000**	-	**970**	**45000**	**20000**	**10000**	-	-
Chromium	mg/kg	**34**	-	**19**	**57**	**55**	**380**	-	-
Chromium III (trivalent)	mg/kg	-	-	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-	-	-
Cobalt	mg/kg	**4.8**	-	**2.4**	**35**	**17**	**240**	-	-
Copper	mg/kg	**310**	-	**44**	**2500**	**480**	**1300**	-	-
Iron	mg/kg	**18000**	-	**20000**	**78000**	**30000**	**210000**	-	-
Lead	mg/kg	**440**	-	**23**	**3500**	**590**	**920**	-	-
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-	-

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-32**	**TT-33**	**TT-33**	**TT-34**	**TT-35**	**TT-36**	**TT-36**	**TT-37**
Sample ID:		**S-38443-110717-BW-030**	**TT-33**	**S-38443-110317-BW-020**	**S-38443-110717-BW-027**	**S-38443-110617-BW-025**	**S-38443-110617-BW-024**	**TT-36**	**TT-37**
Sample Date:		**11/7/2017**	**11/3/2017**	**11/3/2017**	**11/7/2017**	**11/6/2017**	**11/6/2017**	**11/6/2017**	**11/6/2017**
Sample Depth:		**12-14 ft BGS**	**2-4 ft BGS**	**12-14 ft BGS**	**8-10 ft BGS**	**12-14 ft BGS**	**2-4 ft BGS**	**8-10 ft BGS**	**4-6 ft BGS**
Parameters	**Units**								
Magnesium	mg/kg	**9300**	-	**540**	**13000**	**7400**	**4300**	-	-
Manganese	mg/kg	**220**	-	**450**	**930**	**450**	**1600**	-	-
Mercury	mg/kg	**0.22**	-	0.019 U	**1.2**	**0.21**	**0.035 J**	-	-
Nickel	mg/kg	**29**	-	**15**	**360**	**73**	**420**	-	-
Potassium	mg/kg	**290**	-	180 U	**700**	**650**	**2600**	-	-
Selenium	mg/kg	**1.2**	-	**3.4**	**1.1**	**14**	**3.7**	-	-
Silver	mg/kg	**0.43**	-	**0.072 J**	**2.2**	**3.5**	**0.71**	-	-
Sodium	mg/kg	92 U	-	**240**	**240**	**280**	**3000**	-	-
Thallium	mg/kg	**0.15 J**	-	**0.11 J**	**0.24 J**	**0.93**	**0.46 J**	-	-
Vanadium	mg/kg	**10**	-	**4.5**	**21**	**51**	**36**	-	-
Zinc	mg/kg	**280**	-	**26**	**1700**	**610**	**1800**	-	-
PCBs									
Aroclor-1242 (PCB-1242)	ug/kg	**120 J**	-	24 U	12000 U	**51 J**	**620**	-	-
Aroclor-1248 (PCB-1248)	ug/kg	100 U	-	20 U	11000 U	20 U	21 U	-	-
Aroclor-1254 (PCB-1254)	ug/kg	**2600**	-	**50 J**	**450000**	**300**	**1000**	-	-
Aroclor-1260 (PCB-1260)	ug/kg	110 U	-	21 U	11000 U	22 U	22 U	-	-
Pesticides									
4,4'-DDD	ug/kg	78 U	-	40 U	2000 U	40 U	21 U	-	-
4,4'-DDE	ug/kg	29 U	-	14 U	740 U	15 U	7.5 U	-	-
4,4'-DDT	ug/kg	33 U	-	17 U	870 U	17 U	8.7 U	-	-
alpha-Chlordane	ug/kg	90 U	-	46 U	2400 U	46 U	24 U	-	-
Dieldrin	ug/kg	21 U	-	11 U	**560 NJ**	11 U	5.6 U	-	-
Endosulfan I	ug/kg	31 U	-	16 U	810 U	16 U	8.1 U	-	-
Endosulfan II	ug/kg	43 U	-	22 U	1100 U	22 U	11 U	-	-
Endosulfan sulfate	ug/kg	29 U	-	14 U	740 U	15 U	7.5 U	-	-
Endrin	ug/kg	**46 NJ**	-	17 U	1700 U	17 U	8.7 U	-	-
Endrin aldehyde	ug/kg	43 U	-	22 U	2200 U	22 UJ	**15 NJ**	-	-
Endrin ketone	ug/kg	26 U	-	13 U	680 U	13 U	6.8 U	-	-
gamma-BHC (lindane)	ug/kg	69 U	-	35 U	1800 U	35 U	18 U	-	-
gamma-Chlordane	ug/kg	36 U	-	18 U	930 U	18 U	9.3 U	-	-
Heptachlor epoxide	ug/kg	57 U	-	29 U	1500 U	29 U	15 U	-	-
Methoxychlor	ug/kg	29 U	-	14 U	740 U	15 U	**12 J**	-	-
Dioxin/Furans									
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	**250**	-	**21**	**280**	**200**	26 U	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	**1400**	-	**790 J**	**9400**	**3200**	**440**	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	**170**	-	**14**	**540**	**400**	15 U	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	**240**	-	**140 J**	**1600**	**480**	**140**	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	23 U	-	**0.87 J**	**64**	**19**	10 U	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	**74**	-	**3.9 J**	**440**	**250**	6.9 U	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	9.1 U	-	**1.3 J**	51 U	**22**	11 U	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	29 U	-	**1.5 J**	**150**	**74**	5.6 U	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	**16 J**	-	**18**	**110**	**54**	**42 J**	-	-

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-32**	**TT-33**	**TT-33**	**TT-34**	**TT-35**	**TT-36**	**TT-36**	**TT-37**
Sample ID:		**S-38443-110717-BW-030**	**TT-33**	**S-38443-110317-BW-020**	**S-38443-110717-BW-027**	**S-38443-110617-BW-025**	**S-38443-110617-BW-024**	**TT-36**	**TT-37**
Sample Date:		**11/7/2017**	**11/3/2017**	**11/3/2017**	**11/7/2017**	**11/6/2017**	**11/6/2017**	**11/6/2017**	**11/6/2017**
Sample Depth:		**12-14 ft BGS**	**2-4 ft BGS**	**12-14 ft BGS**	**8-10 ft BGS**	**12-14 ft BGS**	**2-4 ft BGS**	**8-10 ft BGS**	**4-6 ft BGS**
Parameters	**Units**								
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	4.3 U	-	0.078 U	12 U	3.6 U	5.1 U	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	20 U	-	**8.1**	**150**	**65**	**63**	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	**12 J**	-	**0.76 J**	**210**	**56**	**8.6 J**	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	2.3 U	-	**1.3 J**	4.2 U	**25**	**50 J**	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	29 U	-	**1.7 J**	**100**	**91**	8.2 U	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	**26 J**	-	**1.6 J**	**320**	**130**	**8.6 J**	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	**10 J**	-	**1.3 J**	**710**	**80**	**25 J**	-	-
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	3.0 U	-	**0.27 J**	**14**	**6.8**	2.0 U	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	**280 J**	-	**34 J**	**1000 J**	**580 J**	**36 J**	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	**470 J**	-	**250 J**	**3600 J**	**910 J**	**340 J**	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	**250 J**	-	**21 J**	**1700 J**	**860 J**	**51 J**	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	**170 J**	-	**130 J**	**1300 J**	**650 J**	**720 J**	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	**240 J**	-	**16 J**	**2800 J**	**1500 J**	**68 J**	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	**5200 J**	-	**68 J**	**270000 J**	**1300 J**	**670 J**	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	**280 J**	-	**26 J**	**7100 J**	**2600 J**	**120 J**	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	**16 J**	-	**6.9 J**	**430 J**	**400 J**	**140 J**	-	-
Asbestos									
Chrysotile asbestos	%	1 <	-	-	1 <	-	-	-	-
Geotechnical									
Coarse sand	%	-	-	-	-	-	-	-	-
Fine sand	%	-	-	-	-	-	-	-	-
Fines	%	-	-	-	-	-	-	-	-
Gravel	%	-	-	-	-	-	-	-	-
Medium sand	%	-	-	-	-	-	-	-	-
Sand	%	-	-	-	-	-	-	-	-
Sieve, #4	% passed	-	-	-	-	-	-	-	-
Sieve, #10	% passed	-	-	-	-	-	-	-	-
Sieve, #20	% passed	-	-	-	-	-	-	-	-
Sieve, #40	% passed	-	-	-	-	-	-	-	-
Sieve, #60	% passed	-	-	-	-	-	-	-	-
Sieve, #80	% passed	-	-	-	-	-	-	-	-
Sieve, #100	% passed	-	-	-	-	-	-	-	-
Sieve, #200	% passed	-	-	-	-	-	-	-	-
Sieve, 0.375 inch	% passed	-	-	-	-	-	-	-	-
Sieve, 0.75 inch	% passed	-	-	-	-	-	-	-	-
Sieve, 1 inch	% passed	-	-	-	-	-	-	-	-
Sieve, 1.5 inch	% passed	-	-	-	-	-	-	-	-
Sieve, 2 inch	% passed	-	-	-	-	-	-	-	-
Sieve, 3 inch	% passed	-	-	-	-	-	-	-	-
General Chemistry									
Cyanide (total)	mg/kg	**2.2 J**	-	0.58 U	0.52 UJ	0.59 UJ	**14 J**	-	-
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-	-

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-32**	**TT-33**	**TT-33**	**TT-34**	**TT-35**	**TT-36**	**TT-36**	**TT-37**
Sample ID:		**S-38443-110717-BW-030**	**TT-33**	**S-38443-110317-BW-020**	**S-38443-110717-BW-027**	**S-38443-110617-BW-025**	**S-38443-110617-BW-024**	**TT-36**	**TT-37**
Sample Date:		**11/7/2017**	**11/3/2017**	**11/3/2017**	**11/7/2017**	**11/6/2017**	**11/6/2017**	**11/6/2017**	**11/6/2017**
Sample Depth:		**12-14 ft BGS**	**2-4 ft BGS**	**12-14 ft BGS**	**8-10 ft BGS**	**12-14 ft BGS**	**2-4 ft BGS**	**8-10 ft BGS**	**4-6 ft BGS**
Parameters	**Units**								
Total solids	%	-	-	-	-	-	-	-	-

Notes
< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
D - Compounds at secondary dilution factor.
E - Estimated because of the presence of interference (Inorganics).
E - Exceed calibration range of GC/MS instrument (Organics).
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%. The
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-37**	**TT-38**	**TT-39**
Sample ID:		**S-38443-110617-BW-023**	**TT-38**	**S-38443-110217-BW-018**
Sample Date:		**11/6/2017**	**11/2/2017**	**11/2/2017**
Sample Depth:		**8-10 ft BGS**	**2-4 ft BGS**	**8-10 ft BGS**
Parameters	**Units**			
Volatiles				
1,1,1-Trichloroethane	ug/kg	0.45 U	-	0.34 U
1,1,2-Trichloroethane	ug/kg	0.77 U	-	0.58 U
1,1-Dichloroethane	ug/kg	0.65 U	-	0.49 U
1,1-Dichloroethene	ug/kg	1.1 U	-	0.81 U
1,2,4-Trichlorobenzene	ug/kg	R	-	0.36 U
1,2-Dichlorobenzene	ug/kg	R	-	0.33 U
1,2-Dichloroethene (total)	ug/kg	-	-	-
1,3-Dichlorobenzene	ug/kg	R	-	0.43 U
1,4-Dichlorobenzene	ug/kg	R	-	0.52 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	2.5 U	-	1.9 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	1.8 U	-	1.3 U
Acetone	ug/kg	17 U	-	4.6 U
Benzene	ug/kg	0.63 U	-	0.48 U
Carbon disulfide	ug/kg	0.41 U	-	0.31 U
Carbon tetrachloride	ug/kg	0.49 U	-	0.37 U
Chlorobenzene	ug/kg	0.65 U	-	0.49 U
Chloroethane	ug/kg	0.75 U	-	0.57 U
cis-1,2-Dichloroethene	ug/kg	0.55 U	-	0.42 U
Cyclohexane	ug/kg	0.41 U	-	0.31 U
Ethylbenzene	ug/kg	0.53 U	-	0.40 U
Isopropyl benzene	ug/kg	0.39 U	-	0.30 U
Methyl acetate	ug/kg	2.3 U	-	1.8 U
Methyl cyclohexane	ug/kg	**1.0 J**	-	0.34 U
Methyl tert butyl ether (MTBE)	ug/kg	0.53 U	-	0.40 U
Methylene chloride	ug/kg	5.1 U	-	0.36 U
Styrene	ug/kg	0.53 U	-	0.40 U
Tetrachloroethene	ug/kg	**0.96 J**	-	0.55 U
Toluene	ug/kg	**0.73 J**	-	0.51 U
trans-1,2-Dichloroethene	ug/kg	0.75 U	-	0.57 U
Trichloroethene	ug/kg	0.81 U	-	0.61 U
Trichlorofluoromethane (CFC-11)	ug/kg	0.47 U	-	0.36 U
Trifluorotrichloroethane (CFC-113)	ug/kg	0.97 U	-	0.73 U
Vinyl chloride	ug/kg	0.55 U	-	0.42 U
Xylenes (total)	ug/kg	0.79 U	-	0.60 U
Semi-Volatiles				
2,4-Dimethylphenol	ug/kg	**100 J**	-	23 U
2-Chlorophenol	ug/kg	24 U	-	9.6 U
2-Methylnaphthalene	ug/kg	**2200**	-	**5.3 J**
2-Methylphenol	ug/kg	**42 J**	-	13 U
3&4-Methylphenol	ug/kg	59 U	-	23 U
Acenaphthene	ug/kg	**84**	-	**23**
Acenaphthylene	ug/kg	**43**	-	**13**
Acetophenone	ug/kg	27 U	-	11 U

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-37**	**TT-38**	**TT-39**
Sample ID:		**S-38443-110617-BW-023**	**TT-38**	**S-38443-110217-BW-018**
Sample Date:		**11/6/2017**	**11/2/2017**	**11/2/2017**
Sample Depth:		**8-10 ft BGS**	**2-4 ft BGS**	**8-10 ft BGS**
Parameters	**Units**			
Anthracene	ug/kg	**110**	-	**91**
Benzaldehyde	ug/kg	**190 J**	-	14 U
Benzo(a)anthracene	ug/kg	**250**	-	**270**
Benzo(a)pyrene	ug/kg	**180**	-	**210**
Benzo(b)fluoranthene	ug/kg	**310**	-	**290**
Benzo(g,h,i)perylene	ug/kg	**280**	-	**150**
Benzo(k)fluoranthene	ug/kg	**55**	-	**100**
Biphenyl (1,1-Biphenyl)	ug/kg	**330**	-	4.1 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	56 U	-	58 U
Butyl benzylphthalate (BBP)	ug/kg	29 U	-	12 U
Carbazole	ug/kg	79 U	-	32 U
Chrysene	ug/kg	**330**	-	**270**
Dibenz(a,h)anthracene	ug/kg	1.9 U	-	**38**
Dibenzofuran	ug/kg	**590**	-	**16 J**
Diethyl phthalate	ug/kg	47 U	-	19 U
Dimethyl phthalate	ug/kg	50 U	-	20 U
Di-n-butylphthalate (DBP)	ug/kg	44 U	-	18 U
Di-n-octyl phthalate (DnOP)	ug/kg	23 U	-	9.3 U
Fluoranthene	ug/kg	**390**	-	**700**
Fluorene	ug/kg	**100**	-	**31**
Indeno(1,2,3-cd)pyrene	ug/kg	**97**	-	**130**
Naphthalene	ug/kg	**1500**	-	**6.4 J**
N-Nitrosodiphenylamine	ug/kg	62 U	-	25 U
Phenanthrene	ug/kg	**1500**	-	**400**
Phenol	ug/kg	21 U	-	8.6 U
Pyrene	ug/kg	**370**	-	**560**
Metals				
Aluminum	mg/kg	**6400**	-	**10000 J**
Antimony	mg/kg	**0.78**	-	0.18 UJ
Arsenic	mg/kg	**29**	-	**7.5**
Barium	mg/kg	**230**	-	**130**
Beryllium	mg/kg	**2.1**	-	**0.73**
Cadmium	mg/kg	**3.4**	-	**0.29**
Calcium	mg/kg	**8200**	-	**49000**
Chromium	mg/kg	**8.6**	-	**14**
Chromium III (trivalent)	mg/kg	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-
Cobalt	mg/kg	**8.3**	-	**6.7**
Copper	mg/kg	**180**	-	**20**
Iron	mg/kg	**21000**	-	**17000**
Lead	mg/kg	**79**	-	**47**
Lead - coarse fraction	mg/kg	-	-	-
Lead - fine fraction	mg/kg	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-37**	**TT-38**	**TT-39**
Sample ID:		**S-38443-110617-BW-023**	**TT-38**	**S-38443-110217-BW-018**
Sample Date:		**11/6/2017**	**11/2/2017**	**11/2/2017**
Sample Depth:		**8-10 ft BGS**	**2-4 ft BGS**	**8-10 ft BGS**
Parameters	**Units**			
Magnesium	mg/kg	**3100**	-	**21000**
Manganese	mg/kg	**120**	-	**450**
Mercury	mg/kg	0.025 U	-	**0.13**
Nickel	mg/kg	**27**	-	**16**
Potassium	mg/kg	**960**	-	**1100**
Selenium	mg/kg	**10**	-	**0.73 J**
Silver	mg/kg	0.067 U	-	**0.075 J**
Sodium	mg/kg	**270**	-	91 U
Thallium	mg/kg	**0.75**	-	**0.23 J**
Vanadium	mg/kg	**23**	-	**23**
Zinc	mg/kg	**44**	-	**150**
PCBs				
Aroclor-1242 (PCB-1242)	ug/kg	24 U	-	23 U
Aroclor-1248 (PCB-1248)	ug/kg	20 U	-	19 U
Aroclor-1254 (PCB-1254)	ug/kg	**19 J**	-	16 U
Aroclor-1260 (PCB-1260)	ug/kg	21 U	-	21 U
Pesticides				
4,4'-DDD	ug/kg	79 U	-	20 U
4,4'-DDE	ug/kg	29 U	-	7.3 U
4,4'-DDT	ug/kg	33 U	-	8.5 U
alpha-Chlordane	ug/kg	91 U	-	23 U
Dieldrin	ug/kg	21 U	-	5.5 U
Endosulfan I	ug/kg	31 U	-	7.9 U
Endosulfan II	ug/kg	43 U	-	11 U
Endosulfan sulfate	ug/kg	29 U	-	7.3 U
Endrin	ug/kg	33 U	-	8.5 U
Endrin aldehyde	ug/kg	43 U	-	11 U
Endrin ketone	ug/kg	26 U	-	6.7 U
gamma-BHC (lindane)	ug/kg	69 U	-	18 U
gamma-Chlordane	ug/kg	36 U	-	9.1 U
Heptachlor epoxide	ug/kg	57 U	-	15 U
Methoxychlor	ug/kg	29 U	-	7.3 U
Dioxin/Furans				
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	**13**	-	2.5 U
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	**92**	-	**28**
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	7.8 U	-	**4.7 J**
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	**17**	-	**4.8 J**
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	1.2 U	-	**0.61 J**
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	1.7 U	-	**4.2 J**
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	0.20 U	-	**0.41 J**
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	1.2 U	-	**1.9 J**
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	**1.1 J**	-	**1.5 J**

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-37**	**TT-38**	**TT-39**
Sample ID:		**S-38443-110617-BW-023**	**TT-38**	**S-38443-110217-BW-018**
Sample Date:		**11/6/2017**	**11/2/2017**	**11/2/2017**
Sample Depth:		**8-10 ft BGS**	**2-4 ft BGS**	**8-10 ft BGS**
Parameters	**Units**			
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	0.17 U	-	**0.21 J**
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	1.2 U	-	**1.8 J**
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	**0.39 J**	-	**0.80 J**
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	**0.71 J**	-	**1.2 J**
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	1.0 U	-	**2.1 J**
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	**0.69 J**	-	**2.2 J**
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	**1.3 J**	-	**0.61 J**
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	0.33 U	-	**0.23 J**
Total heptachlorodibenzofuran (HpCDF)	pg/g	**13 J**	-	**8.1 J**
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	**29 J**	-	**9.5 J**
Total hexachlorodibenzofuran (HxCDF)	pg/g	**12 J**	-	**19 J**
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	**9.1 J**	-	**14 J**
Total pentachlorodibenzofuran (PeCDF)	pg/g	**16 J**	-	**24 J**
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	**37 J**	-	**21 J**
Total tetrachlorodibenzofuran (TCDF)	pg/g	**19 J**	-	**22 J**
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	**3.1 J**	-	**5.8 J**
Asbestos				
Chrysotile asbestos	%	-	-	-
Geotechnical				
Coarse sand	%	-	-	-
Fine sand	%	-	-	-
Fines	%	-	-	-
Gravel	%	-	-	-
Medium sand	%	-	-	-
Sand	%	-	-	-
Sieve, #4	% passed	-	-	-
Sieve, #10	% passed	-	-	-
Sieve, #20	% passed	-	-	-
Sieve, #40	% passed	-	-	-
Sieve, #60	% passed	-	-	-
Sieve, #80	% passed	-	-	-
Sieve, #100	% passed	-	-	-
Sieve, #200	% passed	-	-	-
Sieve, 0.375 inch	% passed	-	-	-
Sieve, 0.75 inch	% passed	-	-	-
Sieve, 1 inch	% passed	-	-	-
Sieve, 1.5 inch	% passed	-	-	-
Sieve, 2 inch	% passed	-	-	-
Sieve, 3 inch	% passed	-	-	-
General Chemistry				
Cyanide (total)	mg/kg	0.53 UJ	-	0.54 U
Fraction organic carbon (FOC)	%	-	-	-

Table 16

Summary of Detections
Soil/Fill Samples - EU19
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**TT-37**	**TT-38**	**TT-39**
Sample ID:		**S-38443-110617-BW-023**	**TT-38**	**S-38443-110217-BW-018**
Sample Date:		**11/6/2017**	**11/2/2017**	**11/2/2017**
Sample Depth:		**8-10 ft BGS**	**2-4 ft BGS**	**8-10 ft BGS**
Parameters	**Units**			
Total solids	%	-	-	-

Notes
< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
D - Compounds at secondary dilution factor.
E - Estimated because of the presence of interference (Inorganics).
E - Exceed calibration range of GC/MS instrument (Organics).
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%. The
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Appendix E
Analytical Results – Floodplain Soil Samples

Table 1

Summary of Analytical Results
Floodplain Soil Samples - Adjacent to OU1
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-164**	**SS-164**	**SS-165**	**SS-165**	**SS-165**	**SS-166**	**SS-166**
Sample ID:		**S-38443-080618-JC-122**	**S-38443-080618-JC-123**	**S-38443-080618-JC-124**	**S-38443-080618-JC-125**	**S-38443-080618-JC-126**	**S-38443-080718-JC-127**	**S-38443-080718-JC-128**
Sample Date:		**8/6/2018**	**8/6/2018**	**8/6/2018**	**8/6/2018**	**8/6/2018**	**8/7/2018**	**8/7/2018**
Sample Depth:		**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.17-0.67 ft BGS**	**0.67-1.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**
					Duplicate			
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/kg	0.87 U	1.2 U	1.2 U	1.2 U	1.2 U	1.1 U	0.95 U
1,1,2,2-Tetrachloroethane	ug/kg	1.5 U	2.1 U	2.0 U	2.1 U	2.1 U	1.8 U	1.7 U
1,1,2-Trichloroethane	ug/kg	1.2 U	1.7 U	1.6 U	1.7 U	1.7 U	1.5 U	1.3 U
1,1-Dichloroethane	ug/kg	0.73 U	1.0 U	0.97 U	1.0 U	1.0 U	0.89 U	0.80 U
1,1-Dichloroethene	ug/kg	0.95 U	1.3 U	1.3 U	1.4 U	1.3 U	1.2 U	1.0 U
1,2,4-Trichlorobenzene	ug/kg	0.60 U	0.85 U	0.80 U	0.86 U	0.84 U	0.73 U	0.66 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	3.8 U	5.3 U	5.1 U	5.4 U	5.3 U	4.6 U	4.2 U
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	0.81 U	1.1 U	1.1 U	1.2 U	1.1 U	0.99 U	0.89 U
1,2-Dichlorobenzene	ug/kg	1.2 U	1.6 U	1.6 U	1.7 U	1.6 U	1.4 U	1.3 U
1,2-Dichloroethane	ug/kg	0.82 U	1.1 U	1.1 U	1.2 U	1.1 U	0.99 U	0.89 U
1,2-Dichloropropane	ug/kg	0.90 U	1.3 U	1.2 U	1.3 U	1.2 U	1.1 U	0.98 U
1,3-Dichlorobenzene	ug/kg	0.86 U	1.2 U	1.1 U	1.2 U	1.2 U	1.0 U	0.94 U
1,4-Dichlorobenzene	ug/kg	0.93 U	1.3 U	1.2 U	1.3 U	1.3 U	1.1 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	3.8 U	5.3 U	5.0 U	5.3 U	5.2 U	4.6 U	4.1 U
2-Hexanone	ug/kg	4.3 U	6.0 U	5.7 U	6.1 U	6.0 U	5.2 U	4.7 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	3.9 U	5.5 U	5.2 U	5.6 U	5.4 U	4.8 U	4.3 U
Acetone	ug/kg	92	31 U	29 U	32 U	31 U	27 U	24 U
Benzene	ug/kg	0.74 U	1.0 U	0.98 U	1.0 U	1.0 U	0.89 U	0.81 U
Bromodichloromethane	ug/kg	0.72 U	1.0 U	0.95 U	1.0 U	0.99 U	0.87 U	0.78 U
Bromoform	ug/kg	2.5 U	3.6 U	3.4 U	3.6 U	3.5 U	3.1 U	2.8 U
Bromomethane (Methyl bromide)	ug/kg	1.0 U	1.5 U	1.4 U	1.5 U	1.4 U	1.3 U	1.1 U
Carbon disulfide	ug/kg	1.2 U	1.7 U	1.6 U	1.7 U	1.7 U	1.5 U	1.3 U
Carbon tetrachloride	ug/kg	3.4 U	4.8 U	4.6 U	4.9 U	4.8 U	4.2 U	3.8 U
Chlorobenzene	ug/kg	0.97 U	1.4 U	1.3 U	1.4 U	1.3 U	1.2 U	1.1 U
Chloroethane	ug/kg	1.3 U	1.8 U	1.7 U	1.8 U	1.8 U	1.6 U	1.4 U
Chloroform (Trichloromethane)	ug/kg	0.83 U	1.2 U	1.1 U	1.2 U	1.2 U	1.0 U	0.91 U
Chloromethane (Methyl chloride)	ug/kg	1.1 U	1.5 U	1.5 U	1.6 U	1.5 U	1.3 U	1.2 U
cis-1,2-Dichloroethene	ug/kg	0.69 U	0.96 U	0.91 U	0.98 U	0.95 U	0.83 U	0.75 U
cis-1,3-Dichloropropene	ug/kg	1.5 U	2.1 U	2.0 U	2.2 U	2.1 U	1.8 U	1.7 U
Cyclohexane	ug/kg	1.5 U	2.0 U	1.9 U	2.1 U	2.0 U	1.8 U	1.6 U
Dibromochloromethane	ug/kg	2.9 U	4.1 U	3.9 U	4.2 U	4.1 U	3.6 U	3.2 U
Dichlorodifluoromethane (CFC-12)	ug/kg	1.0 U	1.4 U	1.3 U	1.4 U	1.4 U	1.2 U	1.1 U
Ethylbenzene	ug/kg	1.1 U	1.5 U	1.5 U	1.6 U	1.5 U	1.3 U	1.2 U
Isopropyl benzene	ug/kg	0.88 U	1.2 U	1.2 U	1.2 U	1.2 U	1.1 U	0.96 U
Methyl acetate	ug/kg	3.6 U	5.0 U	4.8 U	5.1 U	5.0 U	4.4 U	3.9 UJ
Methyl cyclohexane	ug/kg	1.3 U	1.8 U	1.7 U	1.8 U	1.8 U	1.6 U	1.4 U
Methyl tert butyl ether (MTBE)	ug/kg	0.87 U	1.2 U	1.2 U	1.2 U	1.2 U	1.1 U	0.95 U
Methylene chloride	ug/kg	13 U	18 U	17 U	18 U	18 U	15 U	14 U
Styrene	ug/kg	1.2 U	1.7 U	1.6 U	1.7 U	1.7 U	1.5 U	1.3 U
Tetrachloroethene	ug/kg	0.77 U	1.1 U	1.0 U	1.1 U	1.1 U	0.94 U	0.84 U
Toluene	ug/kg	0.82 U	1.1 U	1.3 J	1.2 U	1.1 U	0.99 U	0.89 U

Table 1

Summary of Analytical Results
Floodplain Soil Samples - Adjacent to OU1
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-164**	**SS-164**	**SS-165**	**SS-165**	**SS-165**	**SS-166**	**SS-166**
Sample ID:		**S-38443-080618-JC-122**	**S-38443-080618-JC-123**	**S-38443-080618-JC-124**	**S-38443-080618-JC-125**	**S-38443-080618-JC-126**	**S-38443-080718-JC-127**	**S-38443-080718-JC-128**
Sample Date:		**8/6/2018**	**8/6/2018**	**8/6/2018**	**8/6/2018**	**8/6/2018**	**8/7/2018**	**8/7/2018**
Sample Depth:		**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.17-0.67 ft BGS**	**0.67-1.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**
					Duplicate			
Parameters	**Units**							
trans-1,2-Dichloroethene	ug/kg	0.49 U	0.69 U	0.65 U	0.70 U	0.68 U	0.60 U	0.54 U
trans-1,3-Dichloropropene	ug/kg	1.1 U	1.5 U	1.5 U	1.6 U	1.5 U	1.3 U	1.2 U
Trichloroethene	ug/kg	0.67 U	0.94 U	0.89 U	0.95 U	0.93 U	0.81 U	0.73 U
Trichlorofluoromethane (CFC-11)	ug/kg	1.1 U	1.6 U	1.5 U	1.6 U	1.6 U	1.4 U	1.2 U
Trifluorotrichloroethane (CFC-113)	ug/kg	1.4 U	1.9 U	1.8 U	1.9 U	1.9 U	1.6 U	1.5 U
Vinyl chloride	ug/kg	0.89 U	1.2 U	1.2 U	1.3 U	1.2 U	1.1 U	0.97 U
Xylenes (total)	ug/kg	1.7 U	2.3 U	2.2 U	2.4 U	2.3 U	2.0 U	1.8 U
Semi-Volatiles								
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	11 U	14 U	12 U	11 U	12 U	13 U	12 U
2,4,5-Trichlorophenol	ug/kg	76 U	96 U	83 U	76 U	85 U	87 U	85 U
2,4,6-Trichlorophenol	ug/kg	71 U	89 U	77 U	70 U	79 U	80 U	79 U
2,4-Dichlorophenol	ug/kg	49 U	61 U	53 U	48 U	54 U	55 U	54 U
2,4-Dimethylphenol	ug/kg	44 U	56 U	48 U	44 U	49 U	50 U	49 U
2,4-Dinitrophenol	ug/kg	160 U	200 U	170 U	160 U	170 U	180 U	170 U
2,4-Dinitrotoluene	ug/kg	68 U	86 U	74 U	68 U	76 U	78 U	76 U
2,6-Dinitrotoluene	ug/kg	62 U	78 U	67 U	62 U	69 U	70 U	69 U
2-Chloronaphthalene	ug/kg	15 U	19 U	17 U	15 U	17 U	18 U	17 U
2-Chlorophenol	ug/kg	11 U	14 U	12 U	11 U	12 U	13 U	12 U
2-Methylnaphthalene	ug/kg	110	5.7 J	7.5 J	8.7	9.6	31	17
2-Methylphenol	ug/kg	34 U	43 U	37 U	34 U	38 U	39 U	38 U
2-Nitroaniline	ug/kg	44 U	56 U	48 U	44 U	49 U	50 U	49 U
2-Nitrophenol	ug/kg	14 U	18 U	16 U	14 U	16 U	16 U	16 U
3&4-Methylphenol	ug/kg	32 U	40 U	35 U	32 U	36 U	36 U	36 U
3,3'-Dichlorobenzidine	ug/kg	47 U	60 U	52 U	47 U	53 U	54 U	53 U
3-Nitroaniline	ug/kg	54 U	68 U	59 U	54 U	60 U	61 U	60 U
4,6-Dinitro-2-methylphenol	ug/kg	88 U	110 U	96 U	88 U	99 U	100 U	98 U
4-Bromophenyl phenyl ether	ug/kg	15 U	19 U	17 U	15 U	17 U	18 U	17 U
4-Chloro-3-methylphenol	ug/kg	50 U	63 U	54 U	49 U	55 U	56 U	55 U
4-Chloroaniline	ug/kg	33 U	42 U	36 U	33 U	37 U	38 U	37 U
4-Chlorophenyl phenyl ether	ug/kg	15 U	19 U	17 U	15 U	17 U	18 U	17 U
4-Nitroaniline	ug/kg	66 U	83 U	72 U	66 U	74 U	75 U	74 U
4-Nitrophenol	ug/kg	100 U	130 U	110 U	100 U	120 U	120 U	120 U
Acenaphthene	ug/kg	61	1.1 U	5.4 J	6.0 J	35	28	0.93 U
Acenaphthylene	ug/kg	46	6.2 J	11	11	12	40	23
Acetophenone	ug/kg	12 U	15 U	13 U	12 U	14 U	14 U	14 U
Anthracene	ug/kg	120	6.6 J	20	21	99	97	33
Atrazine	ug/kg	40 U	50 U	43 U	40 U	44 U	45 U	44 U
Benzaldehyde	ug/kg	25 U	32 U	28 U	25 U	28 U	49 J	28 U
Benzo(a)anthracene	ug/kg	570	39	100	110	270	410	200
Benzo(a)pyrene	ug/kg	590	50	120	120	230	450	210
Benzo(b)fluoranthene	ug/kg	1000	70	190	200	370	820	310
Benzo(g,h,i)perylene	ug/kg	440	36	86	80	140	260	180
Benzo(k)fluoranthene	ug/kg	410	28	76	73	150	260	160
Biphenyl (1,1-Biphenyl)	ug/kg	19 U	24 U	20 U	19 U	21 U	21 U	21 U
bis(2-Chloroethoxy)methane	ug/kg	13 U	17 U	14 U	13 U	15 U	15 U	15 U

Table 1

Summary of Analytical Results
Floodplain Soil Samples - Adjacent to OU1
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-164**	**SS-164**	**SS-165**	**SS-165**	**SS-165**	**SS-166**	**SS-166**
Sample ID:		**S-38443-080618-JC-122**	**S-38443-080618-JC-123**	**S-38443-080618-JC-124**	**S-38443-080618-JC-125**	**S-38443-080618-JC-126**	**S-38443-080718-JC-127**	**S-38443-080718-JC-128**
Sample Date:		**8/6/2018**	**8/6/2018**	**8/6/2018**	**8/6/2018**	**8/6/2018**	**8/7/2018**	**8/7/2018**
Sample Depth:		**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.17-0.67 ft BGS**	**0.67-1.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**
					Duplicate			
Parameters	**Units**							
bis(2-Chloroethyl)ether	ug/kg	13 U	17 U	14 U	13 U	15 U	15 U	15 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	130	89 J	61 U	56 U	63 U	110	63 U
Butyl benzylphthalate (BBP)	ug/kg	24 U	31 U	26 U	24 U	27 U	28 U	27 U
Caprolactam	ug/kg	83 U	100 U	90 U	82 U	92 U	94 U	92 U
Carbazole	ug/kg	120	26 U	23 U	21 U	84	64	23 U
Chrysene	ug/kg	660	47	120	120	270	470	230
Dibenz(a,h)anthracene	ug/kg	120	0.92 U	0.79 U	0.72 U	38	72	0.81 U
Dibenzofuran	ug/kg	68	18 U	16 U	14 U	30 J	31 J	16 U
Diethyl phthalate	ug/kg	34 U	43 U	37 U	34 U	38 U	39 U	38 U
Dimethyl phthalate	ug/kg	15 U	19 U	17 U	15 U	17 U	18 U	17 U
Di-n-butylphthalate (DBP)	ug/kg	36 J	59 J	37 J	24 U	34 J	34 J	27 U
Di-n-octyl phthalate (DnOP)	ug/kg	31 U	39 U	34 U	31 U	34 U	35 U	34 U
Fluoranthene	ug/kg	1300	79	220	220	650	930	350
Fluorene	ug/kg	48	0.74 U	6.4 J	4.7 J	42	33	7.2 J
Hexachlorobenzene	ug/kg	2.3 U	2.9 U	2.5 U	2.3 U	2.6 U	2.6 U	2.6 U
Hexachlorobutadiene	ug/kg	13 U	17 U	14 U	13 U	15 U	15 U	15 U
Hexachlorocyclopentadiene	ug/kg	68 U	86 U	74 U	68 U	76 U	78 U	R
Hexachloroethane	ug/kg	9.9 U	13 U	11 U	9.9 U	11 U	11 U	11 U
Indeno(1,2,3-cd)pyrene	ug/kg	390	29	77	72	130	240	150
Isophorone	ug/kg	13 U	17 U	14 U	13 U	15 U	15 U	15 U
Naphthalene	ug/kg	67	5.0 J	5.5 J	7.0 J	7.2 J	27	15
Nitrobenzene	ug/kg	14 U	18 U	16 U	14 U	16 U	16 U	16 U
N-Nitrosodi-n-propylamine	ug/kg	12 U	15 U	13 U	12 U	14 U	14 U	14 U
N-Nitrosodiphenylamine	ug/kg	13 U	17 U	14 U	13 U	15 U	15 U	15 U
Pentachlorophenol	ug/kg	64 U	81 U	70 U	64 U	71 U	73 U	71 U
Phenanthrene	ug/kg	830	34	87	79	500	450	110
Phenol	ug/kg	8.8 U	11 U	9.6 U	8.8 U	9.9 U	10 U	9.8 U
Pyrene	ug/kg	1100	73	200	200	560	820	340
Metals								
Aluminum	mg/kg	6200	6000	4800	5200	5000	7500	8500
Antimony	mg/kg	0.63 J	0.27 J	0.33 J	0.37 J	0.34 J	1.3 J	0.90 J
Arsenic	mg/kg	8.0	5.4	7.4	7.7	11	9.8	10
Barium	mg/kg	92	85	100	110	150	140	140
Beryllium	mg/kg	0.56	0.47	0.39	0.37	0.34	0.67	0.62
Cadmium	mg/kg	0.91	0.46	0.39	0.41	0.38	1.2	0.79
Calcium	mg/kg	74000	42000	85000	88000	100000	72000	78000
Chromium	mg/kg	19	12	10	11	11	18	16
Chromium III (trivalent)	mg/kg	19	11	10	11	11	18	16
Chromium VI (hexavalent)	mg/kg	0.53 U	0.52 J	0.58 U	0.53 U	0.59 U	1.5 U	0.30 U
Cobalt	mg/kg	5.4	4.6	4.1	4.4	4.4	5.8	6.6
Copper	mg/kg	35	15	14	15	14	42	33
Iron	mg/kg	14000	12000	11000	12000	12000	14000	16000
Lead	mg/kg	55	18	20	21	18	68	47
Magnesium	mg/kg	24000	18000	28000	27000	35000	24000	24000
Manganese	mg/kg	450	440	490	520	690	470	550

Table 1

Summary of Analytical Results
Floodplain Soil Samples - Adjacent to OU1
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-164**	**SS-164**	**SS-165**	**SS-165**	**SS-165**	**SS-166**	**SS-166**
Sample ID:		**S-38443-080618-JC-122**	**S-38443-080618-JC-123**	**S-38443-080618-JC-124**	**S-38443-080618-JC-125**	**S-38443-080618-JC-126**	**S-38443-080718-JC-127**	**S-38443-080718-JC-128**
Sample Date:		**8/6/2018**	**8/6/2018**	**8/6/2018**	**8/6/2018**	**8/6/2018**	**8/7/2018**	**8/7/2018**
Sample Depth:		**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.17-0.67 ft BGS**	**0.67-1.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**
					Duplicate			
Parameters	**Units**							
Mercury	mg/kg	0.079 J	0.028 U	0.036 J	0.040 J	0.035 J	0.13	0.10 J
Nickel	mg/kg	17	12	10	11	11	17	18
Potassium	mg/kg	940	850	1000	1100	950	1200	1100
Selenium	mg/kg	1.1	0.82 J	0.87 J	0.85 J	0.79 J	1.5	1.3
Silver	mg/kg	0.38	0.13 J	0.067 J	0.074 J	0.060 J	0.34	0.25
Sodium	mg/kg	93 J	82 J	95 J	94 J	130 J	93 J	89 J
Thallium	mg/kg	0.20	0.16 J	0.15 J	0.15 J	0.15 J	0.28	0.27
Vanadium	mg/kg	17	16	14	15	15	20	21
Zinc	mg/kg	91	49	55	59	50	140	110
PCBs								
Aroclor-1016 (PCB-1016)	ug/kg	25 U	30 U	25 U	25 U	27 U	28 U	26 U
Aroclor-1221 (PCB-1221)	ug/kg	27 U	33 U	28 U	27 U	29 U	31 U	28 U
Aroclor-1232 (PCB-1232)	ug/kg	26 U	31 U	26 U	26 U	28 U	30 U	27 U
Aroclor-1242 (PCB-1242)	ug/kg	22 U	26 U	22 U	22 U	23 U	24 U	23 U
Aroclor-1248 (PCB-1248)	ug/kg	27 U	33 U	28 U	27 U	29 U	31 U	28 U
Aroclor-1254 (PCB-1254)	ug/kg	280	57 J	26 U	26 U	28 U	95	39 J
Aroclor-1260 (PCB-1260)	ug/kg	25 U	30 U	25 U	25 U	27 U	28 U	26 U
Pesticides								
4,4'-DDD	ug/kg	8.5 U	2.0 U	1.7 U	1.7 U	1.8 U	1.9 U	R
4,4'-DDE	ug/kg	8.6 U	2.1 U	1.7 U	1.7 U	1.8 U	1.9 U	R
4,4'-DDT	ug/kg	6.5 U	1.5 U	1.3 U	1.3 U	1.4 U	1.4 U	R
Aldrin	ug/kg	4.4 U	1.0 U	0.89 U	0.88 U	0.94 U	0.99 U	0.91 UJ
alpha-BHC	ug/kg	5.2 U	1.2 U	1.0 U	1.0 U	1.1 U	1.2 U	1.1 UJ
alpha-Chlordane	ug/kg	8.6 U	2.0 U	1.7 U	1.7 U	1.8 U	1.9 U	1.8 UJ
beta-BHC	ug/kg	9.9 U	2.3 U	2.0 U	2.0 U	2.1 U	2.2 U	2.1 UJ
delta-BHC	ug/kg	9.7 U	2.3 U	1.9 U	1.9 U	2.1 U	2.2 U	2.0 UJ
Dieldrin	ug/kg	6.3 U	1.5 U	1.3 U	1.3 U	1.3 U	1.4 U	1.3 UJ
Endosulfan I	ug/kg	6.9 U	1.6 U	1.4 U	1.4 U	1.5 U	1.5 U	R
Endosulfan II	ug/kg	8.5 U	2.0 U	1.7 U	1.7 U	1.8 U	1.9 U	R
Endosulfan sulfate	ug/kg	7.3 U	1.7 U	1.5 U	1.5 U	1.6 U	1.6 U	R
Endrin	ug/kg	11 U	2.6 U	2.2 U	2.2 U	2.3 U	2.4 U	R
Endrin aldehyde	ug/kg	8.9 J	1.8 U	1.5 U	1.5 U	1.6 U	1.7 U	R
Endrin ketone	ug/kg	5.1 U	1.2 U	1.0 U	1.0 U	1.1 U	1.1 U	1.1 UJ
gamma-BHC (lindane)	ug/kg	10 U	2.4 U	2.1 U	2.0 U	2.2 U	2.3 U	R
gamma-Chlordane	ug/kg	7.0 U	1.7 U	1.4 U	1.4 U	1.5 U	1.6 U	R
Heptachlor	ug/kg	9.0 U	2.1 U	1.8 U	1.8 U	1.9 U	2.0 U	1.9 UJ
Heptachlor epoxide	ug/kg	8.2 U	2.0 U	1.7 U	1.6 U	1.8 U	1.8 U	1.7 UJ
Methoxychlor	ug/kg	37 U	8.9 U	7.6 U	7.5 U	8.0 U	8.4 U	R
Toxaphene	ug/kg	140 U	34 U	29 U	29 U	30 U	32 U	30 U

Table 1

Summary of Analytical Results
Floodplain Soil Samples - Adjacent to OU1
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-164**	**SS-164**	**SS-165**	**SS-165**	**SS-165**	**SS-166**	**SS-166**
Sample ID:		**S-38443-080618-JC-122**	**S-38443-080618-JC-123**	**S-38443-080618-JC-124**	**S-38443-080618-JC-125**	**S-38443-080618-JC-126**	**S-38443-080718-JC-127**	**S-38443-080718-JC-128**
Sample Date:		**8/6/2018**	**8/6/2018**	**8/6/2018**	**8/6/2018**	**8/6/2018**	**8/7/2018**	**8/7/2018**
Sample Depth:		**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.17-0.67 ft BGS**	**0.67-1.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**
					Duplicate			
Parameters	**Units**							
Herbicides								
2,4,5-T	ug/kg	15 U	18 U	16 U	15 U	17 U	16 U	16 U
2,4,5-TP (Silvex)	ug/kg	16 U	20 U	17 U	16 U	18 U	17 U	17 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	55 U	69 U	61 U	56 U	62 U	60 U	60 U
General Chemistry								
Cyanide (total)	mg/kg	0.19 U	0.26 U	0.22 U	0.22 U	0.24 U	0.27 J	0.24 U

Notes
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.

Table 1

Summary of Analytical Results
Floodplain Soil Samples - Adjacent to OU1
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-167**	**SS-167**	**SS-168**	**SS-168**	**SS-169**	**SS-169**	**SS-170**
Sample ID:		**S-38443-080718-JC-129**	**S-38443-080718-JC-130**	**S-38443-080718-JC-131**	**S-38443-080718-JC-132**	**S-38443-080718-JC-134**	**S-38443-080718-JC-135**	**S-38443-080718-JC-136**
Sample Date:		**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**
Sample Depth:		**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/kg	0.92 U	0.85 U	0.93 U	1.0 U	1.1 U	1.0 U	0.90 U
1,1,2,2-Tetrachloroethane	ug/kg	1.6 U	1.5 U	1.6 U	1.8 U	2.0 U	1.8 U	1.6 U
1,1,2-Trichloroethane	ug/kg	1.3 U	1.2 U	1.3 U	1.4 U	1.6 U	1.4 U	1.2 U
1,1-Dichloroethane	ug/kg	0.77 U	0.72 U	0.79 U	0.86 U	0.95 U	0.86 U	0.76 U
1,1-Dichloroethene	ug/kg	1.0 U	0.93 U	1.0 U	1.1 U	1.2 U	1.1 U	0.99 U
1,2,4-Trichlorobenzene	ug/kg	0.64 U	0.59 U	0.65 U	0.71 U	2.1 U	1.3 U	0.63 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	4.0 U	3.7 U	4.1 U	4.5 U	5.0 U	4.5 U	4.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	0.86 U	0.80 U	0.87 U	0.96 U	1.1 U	0.96 U	0.85 U
1,2-Dichlorobenzene	ug/kg	1.2 U	1.2 U	1.3 U	1.4 U	1.5 U	1.4 U	1.2 U
1,2-Dichloroethane	ug/kg	0.86 U	0.80 U	0.88 U	0.96 U	1.1 U	0.96 U	0.85 U
1,2-Dichloropropane	ug/kg	0.95 U	0.88 U	0.97 U	1.1 U	1.2 U	1.1 U	0.93 U
1,3-Dichlorobenzene	ug/kg	0.91 U	0.84 U	0.93 U	1.0 U	1.1 U	1.0 U	0.90 U
1,4-Dichlorobenzene	ug/kg	0.99 U	0.91 U	1.0 U	1.1 U	1.2 J	1.1 U	0.97 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	4.0 U	3.7 U	4.0 U	4.4 U	4.9 U	4.4 U	3.9 U
2-Hexanone	ug/kg	4.6 U	4.2 U	4.6 U	5.1 U	5.6 U	5.1 U	4.5 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	4.2 U	3.8 U	4.2 U	4.6 U	5.1 U	4.6 U	4.1 U
Acetone	ug/kg	45	140	24 U	26 U	29 U	26 U	23 U
Benzene	ug/kg	0.78 U	0.72 U	0.79 U	0.87 U	0.96 U	0.87 U	0.77 U
Bromodichloromethane	ug/kg	0.76 U	0.70 U	0.77 U	0.84 U	0.93 U	0.85 U	0.75 U
Bromoform	ug/kg	2.7 U	2.5 U	2.7 U	3.0 U	3.3 U	3.0 U	2.6 U
Bromomethane (Methyl bromide)	ug/kg	1.1 U	1.0 U	1.1 U	1.2 U	1.4 U	1.2 U	1.1 U
Carbon disulfide	ug/kg	1.3 U	1.2 U	1.3 U	1.4 U	1.6 U	1.4 U	1.3 U
Carbon tetrachloride	ug/kg	3.6 U	3.4 U	3.7 U	4.0 U	4.5 U	4.1 U	3.6 U
Chlorobenzene	ug/kg	1.0 U	0.95 U	1.0 U	1.1 U	1.3 U	1.1 U	1.0 U
Chloroethane	ug/kg	1.4 U	1.3 U	1.4 U	1.5 U	1.7 U	1.5 U	1.3 U
Chloroform (Trichloromethane)	ug/kg	0.88 U	0.82 U	0.89 U	0.98 U	1.1 U	0.98 U	0.87 U
Chloromethane (Methyl chloride)	ug/kg	1.2 U	1.1 U	1.2 U	1.3 U	1.4 U	1.3 U	1.1 U
cis-1,2-Dichloroethene	ug/kg	0.73 U	0.67 U	0.74 U	0.81 U	0.90 U	0.81 U	0.72 U
cis-1,3-Dichloropropene	ug/kg	1.6 U	1.5 U	1.6 U	1.8 U	2.0 U	1.8 U	1.6 U
Cyclohexane	ug/kg	1.5 U	1.4 U	1.6 U	1.7 U	1.9 U	1.7 U	1.5 U
Dibromochloromethane	ug/kg	3.1 U	2.9 U	3.2 U	3.5 U	3.8 U	3.5 U	3.1 U
Dichlorodifluoromethane (CFC-12)	ug/kg	1.1 U	0.98 U	1.1 U	1.2 U	1.3 U	1.2 U	1.0 U
Ethylbenzene	ug/kg	1.2 U	1.1 U	1.2 U	1.3 U	1.4 U	1.3 U	1.1 U
Isopropyl benzene	ug/kg	0.93 U	0.86 U	0.94 U	1.0 U	1.1 U	1.0 U	0.91 U
Methyl acetate	ug/kg	3.8 U	3.5 U	3.9 U	4.2 U	4.7 U	4.2 U	3.7 U
Methyl cyclohexane	ug/kg	1.4 U	1.3 U	1.4 U	1.5 U	1.7 U	1.5 U	1.3 U
Methyl tert butyl ether (MTBE)	ug/kg	0.92 U	0.85 U	0.93 U	1.0 U	1.1 U	1.0 U	0.90 U
Methylene chloride	ug/kg	13 U	12 U	14 U	15 U	17 U	15 U	13 U
Styrene	ug/kg	1.3 U	1.2 U	1.3 U	1.4 U	1.6 U	1.4 U	1.3 U
Tetrachloroethene	ug/kg	0.82 U	0.76 U	0.83 U	0.91 U	1.0 U	0.91 U	0.80 U
Toluene	ug/kg	0.86 U	0.80 U	0.88 U	0.96 U	1.1 U	0.96 U	0.85 U

Table 1

Summary of Analytical Results
Floodplain Soil Samples - Adjacent to OU1
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-167**	**SS-167**	**SS-168**	**SS-168**	**SS-169**	**SS-169**	**SS-170**
Sample ID:		**S-38443-080718-JC-129**	**S-38443-080718-JC-130**	**S-38443-080718-JC-131**	**S-38443-080718-JC-132**	**S-38443-080718-JC-134**	**S-38443-080718-JC-135**	**S-38443-080718-JC-136**
Sample Date:		**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**
Sample Depth:		**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**
Parameters	**Units**							
trans-1,2-Dichloroethene	ug/kg	0.52 U	0.48 U	0.53 U	0.58 U	0.64 U	0.58 U	0.51 U
trans-1,3-Dichloropropene	ug/kg	1.2 U	1.1 U	1.2 U	1.3 U	1.4 U	1.3 U	1.1 U
Trichloroethene	ug/kg	0.71 U	0.66 U	0.72 U	0.79 U	0.87 U	0.79 U	0.70 U
Trichlorofluoromethane (CFC-11)	ug/kg	1.2 U	1.1 U	1.2 U	1.3 U	1.5 U	1.3 U	1.2 U
Trifluorotrichloroethane (CFC-113)	ug/kg	1.4 U	1.3 U	1.5 U	1.6 U	1.8 U	1.6 U	1.4 U
Vinyl chloride	ug/kg	0.94 U	0.87 U	0.95 U	1.0 U	1.2 U	1.0 U	0.92 U
Xylenes (total)	ug/kg	1.8 U	1.6 U	1.8 U	2.0 U	2.2 U	2.0 U	1.7 U
Semi-Volatiles								
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	11 U	11 U	13 U	13 U	12 U	13 U	12 U
2,4,5-Trichlorophenol	ug/kg	74 U	74 U	90 U	87 U	85 U	87 U	86 U
2,4,6-Trichlorophenol	ug/kg	69 U	69 U	83 U	81 U	79 U	81 U	80 U
2,4-Dichlorophenol	ug/kg	47 U	47 U	57 U	56 U	54 U	55 U	55 U
2,4-Dimethylphenol	ug/kg	43 U	43 U	52 U	51 U	49 U	50 U	50 U
2,4-Dinitrophenol	ug/kg	150 U	150 U	180 U	180 U	170 U	180 U	180 U
2,4-Dinitrotoluene	ug/kg	67 U	67 U	81 U	79 U	76 U	78 U	77 U
2,6-Dinitrotoluene	ug/kg	60 U	60 U	73 U	71 U	69 U	70 U	70 U
2-Chloronaphthalene	ug/kg	15 U	15 U	18 U	18 U	17 U	18 U	17 U
2-Chlorophenol	ug/kg	11 U	11 U	13 U	13 U	12 U	13 U	12 U
2-Methylnaphthalene	ug/kg	6.8 J	0.54 U	13	32	18	35	26
2-Methylphenol	ug/kg	33 U	33 U	40 U	39 U	38 U	39 U	39 U
2-Nitroaniline	ug/kg	43 U	43 U	52 U	51 U	49 U	50 U	50 U
2-Nitrophenol	ug/kg	14 U	14 U	17 U	16 U	16 U	16 U	16 U
3&4-Methylphenol	ug/kg	31 U	31 U	38 U	37 U	36 U	36 U	36 U
3,3'-Dichlorobenzidine	ug/kg	46 U	46 U	56 U	55 U	53 U	54 U	54 U
3-Nitroaniline	ug/kg	53 U	53 U	64 U	62 U	60 U	62 U	61 U
4,6-Dinitro-2-methylphenol	ug/kg	86 U	86 U	100 U	100 U	98 U	100 U	100 U
4-Bromophenyl phenyl ether	ug/kg	15 U	15 U	18 U	18 U	17 U	18 U	17 U
4-Chloro-3-methylphenol	ug/kg	48 U	48 U	59 U	57 U	55 U	57 U	56 U
4-Chloroaniline	ug/kg	32 U	32 U	39 U	38 U	37 U	38 U	37 U
4-Chlorophenyl phenyl ether	ug/kg	15 U	15 U	18 U	18 U	17 U	18 U	17 U
4-Nitroaniline	ug/kg	65 U	65 U	78 U	76 U	74 U	75 U	75 U
4-Nitrophenol	ug/kg	100 U	100 U	120 U	120 U	120 U	120 U	120 U
Acenaphthene	ug/kg	8.5	0.82 U	10	12	26	60	31
Acenaphthylene	ug/kg	11	5.5 J	37	44	46	50	35
Acetophenone	ug/kg	12 U	12 U	14 U	14 U	14 U	14 U	14 U
Anthracene	ug/kg	51	8.3	37	44	90	100	85
Atrazine	ug/kg	39 U	39 U	47 U	46 U	44 U	45 U	45 U
Benzaldehyde	ug/kg	25 U	25 U	30 U	29 U	28 U	29 U	29 U
Benzo(a)anthracene	ug/kg	130	38	260	290	520	500	540
Benzo(a)pyrene	ug/kg	110	43	320	340	590	570	610
Benzo(b)fluoranthene	ug/kg	160	50	630	600	1100	1000	1100
Benzo(g,h,i)perylene	ug/kg	54	20	210	230	340	300	300
Benzo(k)fluoranthene	ug/kg	71	23	290	280	410	400	410
Biphenyl (1,1-Biphenyl)	ug/kg	18 U	18 U	22 U	22 U	21 U	21 U	21 U
bis(2-Chloroethoxy)methane	ug/kg	13 U	13 U	16 U	15 U	15 U	15 U	15 U

Table 1

Summary of Analytical Results
Floodplain Soil Samples - Adjacent to OU1
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-167**	**SS-167**	**SS-168**	**SS-168**	**SS-169**	**SS-169**	**SS-170**
Sample ID:		**S-38443-080718-JC-129**	**S-38443-080718-JC-130**	**S-38443-080718-JC-131**	**S-38443-080718-JC-132**	**S-38443-080718-JC-134**	**S-38443-080718-JC-135**	**S-38443-080718-JC-136**
Sample Date:		**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**
Sample Depth:		**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**
Parameters	**Units**							
bis(2-Chloroethyl)ether	ug/kg	13 U	13 U	16 U	15 U	15 U	15 U	15 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	68 J	55 U	76 J	130	80 J	150	79 J
Butyl benzylphthalate (BBP)	ug/kg	24 U	24 U	29 U	28 J	27 U	28 U	27 U
Caprolactam	ug/kg	81 U	81 U	98 U	95 U	92 U	94 U	93 U
Carbazole	ug/kg	20 U	20 U	34 J	32 J	72	85	77
Chrysene	ug/kg	120	40	380	360	680	610	700
Dibenz(a,h)anthracene	ug/kg	0.71 U	0.71 U	50	59	88	0.83 U	86
Dibenzofuran	ug/kg	14 U	14 U	17 U	16 U	22 J	30 J	25 J
Diethyl phthalate	ug/kg	33 U	33 U	40 U	39 U	38 U	39 U	39 U
Dimethyl phthalate	ug/kg	15 U	15 U	18 U	18 U	17 U	18 U	17 U
Di-n-butylphthalate (DBP)	ug/kg	41 J	43 J	30 J	44 J	27 U	29 J	36 J
Di-n-octyl phthalate (DnOP)	ug/kg	30 U	30 U	36 U	35 U	34 U	35 U	35 U
Fluoranthene	ug/kg	230	54	620	520	1300	1200	1300
Fluorene	ug/kg	8.7	0.57 U	11	12	28	46	31
Hexachlorobenzene	ug/kg	2.3 U	2.3 U	2.7 U	2.7 U	2.6 U	2.6 U	2.6 U
Hexachlorobutadiene	ug/kg	13 U	13 U	16 U	15 U	15 U	15 U	15 U
Hexachlorocyclopentadiene	ug/kg	67 U	67 U	81 U	79 U	76 U	78 U	77 U
Hexachloroethane	ug/kg	9.7 U	9.7 U	12 U	11 U	11 U	11 U	11 U
Indeno(1,2,3-cd)pyrene	ug/kg	47	17	200	200	330	290	300
Isophorone	ug/kg	13 U	13 U	16 U	15 U	15 U	15 U	15 U
Naphthalene	ug/kg	10	8.6 U	11	23	19	29	25
Nitrobenzene	ug/kg	14 U	14 U	17 U	16 U	16 U	16 U	16 U
N-Nitrosodi-n-propylamine	ug/kg	12 U	12 U	14 U	14 U	14 U	14 U	14 U
N-Nitrosodiphenylamine	ug/kg	13 U	13 U	16 U	15 U	15 U	15 U	15 U
Pentachlorophenol	ug/kg	63 U	62 U	75 U	74 U	71 U	73 U	72 U
Phenanthrene	ug/kg	120	18	180	190	480	560	510
Phenol	ug/kg	8.6 U	8.6 U	10 U	10 U	9.8 U	10 U	10 U
Pyrene	ug/kg	250	68	550	480	1100	1000	1100
Metals								
Aluminum	mg/kg	4900	3900	12000	14000	8600	11000	7600
Antimony	mg/kg	0.29 J	0.15 J	0.33 J	0.71 J	0.24 J	0.39 J	0.40 J
Arsenic	mg/kg	8.9	6.3	10	12	7.7	10	9.2
Barium	mg/kg	88	62	150	160	120	160	110
Beryllium	mg/kg	0.30	0.24 U	0.66	0.83	0.46	0.64	0.45
Cadmium	mg/kg	0.27	0.20	0.78	1.5	0.74	2.5	0.61
Calcium	mg/kg	85000	78000	58000	50000	76000	68000	88000
Chromium	mg/kg	9.3	7.6	23	36	21	54	19
Chromium III (trivalent)	mg/kg	9.3	7.3	23	36	21	53	19
Chromium VI (hexavalent)	mg/kg	0.26 U	0.36 J	0.62 U	0.61 U	0.59 U	0.76 J	0.60 U
Cobalt	mg/kg	3.9	3.3	9.1	9.7	6.6	8.5	6.2
Copper	mg/kg	13	9.7	31	46	26	60	23
Iron	mg/kg	11000	8700	24000	25000	17000	22000	16000
Lead	mg/kg	14	11	41	64	36	92	34
Magnesium	mg/kg	23000	27000	20000	18000	24000	22000	25000
Manganese	mg/kg	390	320	650	610	520	610	500

Table 1

Summary of Analytical Results
Floodplain Soil Samples - Adjacent to OU1
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-167**	**SS-167**	**SS-168**	**SS-168**	**SS-169**	**SS-169**	**SS-170**
Sample ID:		**S-38443-080718-JC-129**	**S-38443-080718-JC-130**	**S-38443-080718-JC-131**	**S-38443-080718-JC-132**	**S-38443-080718-JC-134**	**S-38443-080718-JC-135**	**S-38443-080718-JC-136**
Sample Date:		**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**
Sample Depth:		**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**
Parameters	**Units**							
Mercury	mg/kg	0.054 J	0.048 J	0.086 J	0.14	0.078 J	0.16	0.068 J
Nickel	mg/kg	10	9.1	26	32	20	32	18
Potassium	mg/kg	780	530	1900	1800	1200	1400	1100
Selenium	mg/kg	0.65 J	0.49 J	1.6	1.6	1.3	1.4	1.2
Silver	mg/kg	0.059 J	0.036 J	0.42	0.74	0.39	1.3	0.28
Sodium	mg/kg	87 J	89 J	89 J	88 J	100 J	96 J	100 J
Thallium	mg/kg	0.11 J	0.18 J	0.40	0.49	0.30	0.40	0.28
Vanadium	mg/kg	13	12	28	33	21	27	21
Zinc	mg/kg	35	28	120	150	100	180	91
PCBs								
Aroclor-1016 (PCB-1016)	ug/kg	25 U	23 U	29 U	27 U	27 U	270 U	27 U
Aroclor-1221 (PCB-1221)	ug/kg	27 U	25 U	32 U	30 U	30 U	300 U	29 U
Aroclor-1232 (PCB-1232)	ug/kg	26 U	24 U	30 U	28 U	29 U	290 U	28 U
Aroclor-1242 (PCB-1242)	ug/kg	21 U	20 U	25 U	23 U	24 U	240 U	23 U
Aroclor-1248 (PCB-1248)	ug/kg	27 U	25 U	32 U	30 U	30 U	4600	29 U
Aroclor-1254 (PCB-1254)	ug/kg	26 U	24 U	56 J	440	110	290 U	79
Aroclor-1260 (PCB-1260)	ug/kg	25 U	23 U	29 U	27 U	27 U	270 U	27 U
Pesticides								
4,4'-DDD	ug/kg	1.7 U	1.6 U	2.0 U	1.8 U	1.8 U	18 U	1.8 U
4,4'-DDE	ug/kg	1.7 U	1.6 U	2.0 U	2.4 NJ	1.9 U	19 U	1.8 U
4,4'-DDT	ug/kg	1.3 U	1.2 U	1.5 U	1.4 U	1.4 U	14 U	1.4 U
Aldrin	ug/kg	0.86 U	0.81 U	1.0 U	0.95 U	0.96 U	9.6 U	0.94 U
alpha-BHC	ug/kg	1.0 U	0.96 U	1.2 U	1.1 U	1.1 U	11 U	1.1 U
alpha-Chlordane	ug/kg	1.7 U	1.6 U	2.0 U	1.8 U	1.9 U	19 U	1.8 U
beta-BHC	ug/kg	1.9 U	1.8 U	2.3 U	2.1 U	2.2 U	22 U	2.1 U
delta-BHC	ug/kg	1.9 U	1.8 U	2.2 U	2.1 U	2.1 U	21 U	2.1 U
Dieldrin	ug/kg	1.2 U	1.2 U	1.5 U	1.4 U	1.4 U	14 U	1.3 U
Endosulfan I	ug/kg	1.3 U	1.3 U	1.6 U	1.5 U	1.5 U	15 U	1.5 U
Endosulfan II	ug/kg	1.7 U	1.6 U	2.0 U	1.8 U	1.8 U	18 U	1.8 U
Endosulfan sulfate	ug/kg	1.4 U	1.4 U	1.7 U	2.9 J	1.6 U	16 U	1.6 U
Endrin	ug/kg	2.1 U	2.0 U	2.5 U	2.3 U	2.4 U	24 U	2.3 U
Endrin aldehyde	ug/kg	1.5 U	1.4 U	2.0 NJ	1.6 U	1.6 U	16 U	1.6 U
Endrin ketone	ug/kg	1.0 U	0.94 U	1.2 U	1.1 U	1.1 U	11 U	1.1 U
gamma-BHC (lindane)	ug/kg	2.0 U	1.9 U	2.4 U	2.2 U	2.2 U	29 J	2.2 U
gamma-Chlordane	ug/kg	1.4 U	1.3 U	1.6 U	1.5 U	1.5 U	15 U	1.5 U
Heptachlor	ug/kg	1.8 U	1.7 U	2.1 U	1.9 U	2.0 U	20 U	1.9 U
Heptachlor epoxide	ug/kg	1.6 U	1.5 U	1.9 U	2.8 NJ	1.8 U	18 U	1.8 U
Methoxychlor	ug/kg	7.3 U	6.9 U	8.7 U	8.1 U	8.2 U	82 U	8.0 U
Toxaphene	ug/kg	28 U	26 U	33 U	31 U	31 U	310 U	30 U

Table 1

Summary of Analytical Results
Floodplain Soil Samples - Adjacent to OU1
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-167**	**SS-167**	**SS-168**	**SS-168**	**SS-169**	**SS-169**	**SS-170**
Sample ID:		**S-38443-080718-JC-129**	**S-38443-080718-JC-130**	**S-38443-080718-JC-131**	**S-38443-080718-JC-132**	**S-38443-080718-JC-134**	**S-38443-080718-JC-135**	**S-38443-080718-JC-136**
Sample Date:		**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**
Sample Depth:		**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**
Parameters	**Units**							
Herbicides								
2,4,5-T	ug/kg	14 U	14 U	17 U	17 U	17 U	16 U	16 U
2,4,5-TP (Silvex)	ug/kg	15 U	15 U	18 U	19 U	18 U	73 J	17 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	52 U	52 U	64 U	65 U	63 U	61 U	60 U
General Chemistry								
Cyanide (total)	mg/kg	0.19 U	0.20 U	0.23 U	0.25 U	0.22 U	0.22 U	0.22 U

Notes
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.

Table 1

Summary of Analytical Results
Floodplain Soil Samples - Adjacent to OU1
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-170**	**SS-171**	**SS-171**	**SS-172**	**SS-172**	**SS-173**	**SS-173**
Sample ID:		**S-38443-080718-JC-137**	**S-38443-080718-JC-138**	**S-38443-080718-JC-139**	**S-38443-080718-JC-141**	**S-38443-080718-JC-142**	**S-38443-080818-JC-143**	**S-38443-080818-JC-144**
Sample Date:		**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/8/2018**	**8/8/2018**
Sample Depth:		**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/kg	0.82 U	0.97 U	1.0 U	0.99 U	0.89 U	0.87 U	0.94 U
1,1,2,2-Tetrachloroethane	ug/kg	1.4 U	1.7 U	1.8 U	1.7 U	1.5 U	1.5 U	1.6 U
1,1,2-Trichloroethane	ug/kg	1.1 U	1.3 U	1.4 U	1.4 U	1.2 U	1.2 U	1.3 U
1,1-Dichloroethane	ug/kg	0.69 U	0.82 U	0.85 U	0.84 U	0.75 U	0.73 U	0.80 U
1,1-Dichloroethene	ug/kg	0.90 U	1.1 U	1.1 U	1.1 U	0.98 U	0.95 U	1.0 U
1,2,4-Trichlorobenzene	ug/kg	0.57 U	0.68 U	0.71 U	0.69 U	0.62 U	0.60 U	0.66 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	3.6 U	4.3 U	4.4 U	4.4 U	3.9 U	3.8 U	4.2 U
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	0.77 U	0.91 U	0.95 U	0.93 U	0.83 U	0.81 U	0.89 U
1,2-Dichlorobenzene	ug/kg	1.1 U	1.3 U	1.4 U	1.3 U	1.2 U	1.2 U	1.3 U
1,2-Dichloroethane	ug/kg	0.77 U	0.92 U	0.95 U	0.93 U	0.84 U	0.81 U	0.89 U
1,2-Dichloropropane	ug/kg	0.85 U	1.0 U	1.0 U	1.0 U	0.92 U	0.90 U	0.98 U
1,3-Dichlorobenzene	ug/kg	0.81 U	0.97 U	1.0 U	0.99 U	0.88 U	0.86 U	0.94 U
1,4-Dichlorobenzene	ug/kg	0.88 U	1.0 U	1.1 U	1.1 U	0.96 U	0.93 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	3.5 U	4.2 U	4.4 U	4.3 U	3.8 U	3.8 U	4.1 U
2-Hexanone	ug/kg	4.1 U	4.9 U	5.0 U	4.9 U	4.4 U	4.3 U	4.7 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	3.7 U	4.4 U	4.6 U	4.5 U	4.0 U	3.9 U	4.3 U
Acetone	ug/kg	21 U	25 U	26 U	25 U	23 U	22 J	64
Benzene	ug/kg	0.70 U	0.83 U	0.86 U	0.84 U	0.76 U	0.74 U	0.80 U
Bromodichloromethane	ug/kg	0.68 U	0.81 U	0.84 U	0.82 U	0.74 U	0.72 U	0.78 U
Bromoform	ug/kg	2.4 U	2.9 U	3.0 U	2.9 U	2.6 U	2.5 U	2.8 U
Bromomethane (Methyl bromide)	ug/kg	0.99 U	1.2 U	1.2 U	1.2 U	1.1 U	1.0 U	1.1 U
Carbon disulfide	ug/kg	1.2 U	1.4 U	1.4 U	1.4 U	1.3 U	1.2 U	1.3 U
Carbon tetrachloride	ug/kg	3.2 U	3.9 U	4.0 U	3.9 U	3.5 U	3.4 U	3.7 U
Chlorobenzene	ug/kg	0.91 U	1.1 U	1.1 U	1.1 U	0.99 U	0.97 U	1.1 U
Chloroethane	ug/kg	1.2 U	1.4 U	1.5 U	1.5 U	1.3 U	1.3 U	1.4 U
Chloroform (Trichloromethane)	ug/kg	0.79 U	0.94 U	0.97 U	0.95 U	0.85 U	0.83 U	0.91 U
Chloromethane (Methyl chloride)	ug/kg	1.0 U	1.2 U	1.3 U	1.3 U	1.1 U	1.1 U	1.2 U
cis-1,2-Dichloroethene	ug/kg	0.65 U	0.77 U	0.80 U	0.79 U	0.70 U	0.69 U	0.75 U
cis-1,3-Dichloropropene	ug/kg	1.4 U	1.7 U	1.8 U	1.7 U	1.6 U	1.5 U	1.7 U
Cyclohexane	ug/kg	1.4 U	1.6 U	1.7 U	1.7 U	1.5 U	1.5 U	1.6 U
Dibromochloromethane	ug/kg	2.8 U	3.3 U	3.4 U	3.4 U	3.0 U	2.9 U	3.2 U
Dichlorodifluoromethane (CFC-12)	ug/kg	0.94 U	1.1 U	1.2 U	1.1 U	1.0 U	1.0 U	1.1 U
Ethylbenzene	ug/kg	1.0 U	1.2 U	1.3 U	1.3 U	1.1 U	1.1 U	1.2 U
Isopropyl benzene	ug/kg	0.83 U	0.99 U	1.0 U	1.0 U	0.90 U	0.88 U	0.96 U
Methyl acetate	ug/kg	3.4 U	4.0 U	4.2 U	4.1 U	3.7 U	3.6 U	3.9 U
Methyl cyclohexane	ug/kg	1.2 U	1.5 U	1.5 U	1.5 U	1.3 U	1.3 U	1.4 U
Methyl tert butyl ether (MTBE)	ug/kg	0.82 U	0.97 U	1.0 U	0.99 U	0.89 U	0.87 U	0.94 U
Methylene chloride	ug/kg	12 U	14 U	15 U	15 U	21 J	13 U	14 U
Styrene	ug/kg	1.2 U	1.4 U	1.4 U	1.4 U	1.3 U	1.2 U	1.3 U
Tetrachloroethene	ug/kg	0.73 U	0.87 U	0.90 U	0.88 U	0.79 U	0.77 U	0.84 U
Toluene	ug/kg	0.77 U	0.92 U	0.95 U	0.93 U	0.84 U	0.82 U	0.89 U

Table 1

Summary of Analytical Results
Floodplain Soil Samples - Adjacent to OU1
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-170**	**SS-171**	**SS-171**	**SS-172**	**SS-172**	**SS-173**	**SS-173**
Sample ID:		**S-38443-080718-JC-137**	**S-38443-080718-JC-138**	**S-38443-080718-JC-139**	**S-38443-080718-JC-141**	**S-38443-080718-JC-142**	**S-38443-080818-JC-143**	**S-38443-080818-JC-144**
Sample Date:		**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/8/2018**	**8/8/2018**
Sample Depth:		**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**
Parameters	**Units**							
trans-1,2-Dichloroethene	ug/kg	0.46 U	0.55 U	0.57 U	0.56 U	0.50 U	0.49 U	0.54 U
trans-1,3-Dichloropropene	ug/kg	1.0 U	1.2 U	1.3 U	1.3 U	1.1 U	1.1 U	1.2 U
Trichloroethene	ug/kg	0.63 U	0.75 U	0.78 U	0.77 U	0.69 U	0.67 U	0.73 U
Trichlorofluoromethane (CFC-11)	ug/kg	1.1 U	1.3 U	1.3 U	1.3 U	1.2 U	1.1 U	1.2 U
Trifluorotrichloroethane (CFC-113)	ug/kg	1.3 U	1.5 U	1.6 U	1.6 U	1.4 U	1.4 U	1.5 U
Vinyl chloride	ug/kg	0.84 U	0.99 U	1.0 U	1.0 U	0.91 U	0.88 U	0.96 U
Xylenes (total)	ug/kg	1.6 U	1.9 U	2.0 U	1.9 U	1.7 U	1.7 U	1.8 U
Semi-Volatiles								
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	24 U	25 U	46 U	12 U	12 U	24 U	11 U
2,4,5-Trichlorophenol	ug/kg	160 U	170 U	320 U	84 U	83 U	160 U	76 U
2,4,6-Trichlorophenol	ug/kg	150 U	160 U	290 U	77 U	77 U	150 U	70 U
2,4-Dichlorophenol	ug/kg	100 U	110 U	200 U	53 U	53 U	100 U	48 U
2,4-Dimethylphenol	ug/kg	95 U	98 U	180 U	48 U	48 U	94 U	44 U
2,4-Dinitrophenol	ug/kg	340 U	350 U	650 U	170 U	170 U	330 U	160 U
2,4-Dinitrotoluene	ug/kg	150 U	150 U	280 U	75 U	75 U	150 U	68 U
2,6-Dinitrotoluene	ug/kg	130 U	140 U	260 U	68 U	68 U	130 U	62 U
2-Chloronaphthalene	ug/kg	33 U	34 U	64 U	17 U	17 U	33 U	15 U
2-Chlorophenol	ug/kg	24 U	25 U	46 U	12 U	12 U	24 U	11 U
2-Methylnaphthalene	ug/kg	62	29	42	13	24	33	34
2-Methylphenol	ug/kg	73 U	76 U	140 U	38 U	38 U	73 U	34 U
2-Nitroaniline	ug/kg	95 U	98 U	180 U	48 U	48 U	94 U	44 U
2-Nitrophenol	ug/kg	31 U	32 U	59 U	16 U	16 U	31 U	14 U
3&4-Methylphenol	ug/kg	69 U	71 U	130 U	35 U	35 U	68 U	32 U
3,3'-Dichlorobenzidine	ug/kg	100 U	110 U	200 U	52 U	52 U	100 U	47 U
3-Nitroaniline	ug/kg	120 U	120 U	220 U	59 U	59 U	120 U	54 U
4,6-Dinitro-2-methylphenol	ug/kg	190 U	200 U	370 U	97 U	97 U	190 U	88 U
4-Bromophenyl phenyl ether	ug/kg	33 U	34 U	64 U	17 U	17 U	33 U	15 U
4-Chloro-3-methylphenol	ug/kg	110 U	110 U	210 U	54 U	54 U	110 U	49 U
4-Chloroaniline	ug/kg	71 U	74 U	140 U	36 U	36 U	71 U	33 U
4-Chlorophenyl phenyl ether	ug/kg	33 U	34 U	64 U	17 U	17 U	33 U	15 U
4-Nitroaniline	ug/kg	140 U	150 U	270 U	73 U	73 U	140 U	66 U
4-Nitrophenol	ug/kg	220 U	230 U	430 U	110 U	110 U	220 U	100 U
Acenaphthene	ug/kg	120	45	120	16	21	150	22
Acenaphthylene	ug/kg	56	55	80	32	41	38	42
Acetophenone	ug/kg	26 U	27 U	50 U	13 U	13 U	26 U	12 U
Anthracene	ug/kg	170	150	1500	60	69	270	150
Atrazine	ug/kg	85 U	88 U	160 U	44 U	44 U	85 U	40 U
Benzaldehyde	ug/kg	54 U	56 U	110 U	28 U	28 U	54 U	25 U
Benzo(a)anthracene	ug/kg	820	690	1900	380	390	960	510
Benzo(a)pyrene	ug/kg	850	750	1600	430	430	1000	580
Benzo(b)fluoranthene	ug/kg	1400	1400	2700	870	860	1500	790
Benzo(g,h,i)perylene	ug/kg	810	380	630	240	210	490	300
Benzo(k)fluoranthene	ug/kg	560	570	1100	280	290	350	220
Biphenyl (1,1-Biphenyl)	ug/kg	40 U	42 U	78 U	21 U	21 U	40 U	19 U
bis(2-Chloroethoxy)methane	ug/kg	28 U	29 U	55 U	15 U	15 U	28 U	13 U

Table 1

Summary of Analytical Results
Floodplain Soil Samples - Adjacent to OU1
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-170**	**SS-171**	**SS-171**	**SS-172**	**SS-172**	**SS-173**	**SS-173**
Sample ID:		**S-38443-080718-JC-137**	**S-38443-080718-JC-138**	**S-38443-080718-JC-139**	**S-38443-080718-JC-141**	**S-38443-080718-JC-142**	**S-38443-080818-JC-143**	**S-38443-080818-JC-144**
Sample Date:		**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/8/2018**	**8/8/2018**
Sample Depth:		**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**
Parameters	**Units**							
bis(2-Chloroethyl)ether	ug/kg	28 U	29 U	55 U	15 U	15 U	28 U	13 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	150 J	130 U	230 U	100	120	120 J	160
Butyl benzylphthalate (BBP)	ug/kg	52 U	54 U	100 U	27 U	49 J	52 U	24 U
Caprolactam	ug/kg	180 U	180 U	340 U	91 U	91 U	180 U	82 U
Carbazole	ug/kg	180	110 J	280	56 J	54 J	250	57
Chrysene	ug/kg	1000	900	1900	520	480	1100	540
Dibenz(a,h)anthracene	ug/kg	190	110	190	0.80 U	0.80 U	110	76
Dibenzofuran	ug/kg	94 J	39 J	89 J	16 J	17 J	100 J	29 J
Diethyl phthalate	ug/kg	73 U	76 U	140 U	38 U	38 U	73 U	34 U
Dimethyl phthalate	ug/kg	33 U	34 U	64 U	17 U	17 U	33 U	15 U
Di-n-butylphthalate (DBP)	ug/kg	52 U	54 U	100 U	27 U	33 J	52 U	26 J
Di-n-octyl phthalate (DnOP)	ug/kg	66 U	69 U	130 U	34 U	34 U	66 U	31 U
Fluoranthene	ug/kg	2100	1800	4600	950	900	2800	1400
Fluorene	ug/kg	83	60	260	18	23	150	35
Hexachlorobenzene	ug/kg	5.0 U	5.2 U	9.6 U	2.5 U	2.5 U	4.9 U	2.3 U
Hexachlorobutadiene	ug/kg	28 U	29 U	55 U	15 U	15 U	28 U	13 U
Hexachlorocyclopentadiene	ug/kg	150 U	150 U	280 U	75 U	75 U	150 U	68 U
Hexachloroethane	ug/kg	21 U	22 U	41 U	11 U	11 U	21 U	9.9 U
Indeno(1,2,3-cd)pyrene	ug/kg	690	360	640	230	210	470	290
Isophorone	ug/kg	28 U	29 U	55 U	15 U	15 U	28 U	13 U
Naphthalene	ug/kg	99	29	37	10	16	54	40
Nitrobenzene	ug/kg	31 U	32 U	59 U	16 U	16 U	31 U	14 U
N-Nitrosodi-n-propylamine	ug/kg	26 U	27 U	50 U	13 U	13 U	26 U	12 U
N-Nitrosodiphenylamine	ug/kg	28 U	29 U	55 U	15 U	15 U	28 U	13 U
Pentachlorophenol	ug/kg	140 U	140 U	270 U	70 U	70 U	140 U	64 U
Phenanthrene	ug/kg	1400	800	2500	350	350	1900	630
Phenol	ug/kg	19 U	20 U	37 U	15 J	9.7 U	19 U	8.8 U
Pyrene	ug/kg	1800	1600	3900	830	790	1700	890
Metals								
Aluminum	mg/kg	9000	7400	6900	7900	9700	8100	4300
Antimony	mg/kg	0.30 J	0.22 J	0.28 J	0.21 J	0.24 J	0.26 J	0.20 J
Arsenic	mg/kg	8.9	7.3	7.2	6.8	8.6	7.2	4.8
Barium	mg/kg	130	110	97	110	130	110	61
Beryllium	mg/kg	0.55	0.44	0.39	0.44	0.53	0.73	0.30
Cadmium	mg/kg	1.9	0.54	0.78	0.49	0.84	0.93	0.82
Calcium	mg/kg	69000	83000	90000	79000	68000	72000	96000
Chromium	mg/kg	43	16	22	17	23	24	19
Chromium III (trivalent)	mg/kg	43	16	21	17	23	24	18
Chromium VI (hexavalent)	mg/kg	0.43 J	0.59 U	0.42 J	0.58 U	0.58 U	0.57 U	0.55 J
Cobalt	mg/kg	7.3	6.3	5.8	6.1	7.5	5.9	3.5 J
Copper	mg/kg	45	23	31	21	28	25	21 J
Iron	mg/kg	18000	17000	16000	16000	19000	15000	9300 J
Lead	mg/kg	92	29	44	27	46	46	52 J
Magnesium	mg/kg	21000	25000	28000	25000	23000	24000	29000 J
Manganese	mg/kg	550	520	470	460	560	500	350 J

Table 1

Summary of Analytical Results
Floodplain Soil Samples - Adjacent to OU1
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-170**	**SS-171**	**SS-171**	**SS-172**	**SS-172**	**SS-173**	**SS-173**
Sample ID:		**S-38443-080718-JC-137**	**S-38443-080718-JC-138**	**S-38443-080718-JC-139**	**S-38443-080718-JC-141**	**S-38443-080718-JC-142**	**S-38443-080818-JC-143**	**S-38443-080818-JC-144**
Sample Date:		**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/8/2018**	**8/8/2018**
Sample Depth:		**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**
Parameters	**Units**							
Mercury	mg/kg	0.15	0.062 J	0.075 J	0.060 J	0.094 J	0.093 J	0.057 J
Nickel	mg/kg	28	17	20	17	23	19 J	12 J
Potassium	mg/kg	1000	1100	1000	1300	1500	1000 J	520 J
Selenium	mg/kg	1.3	1.3	1.1	1.1	1.3	0.97 J	0.53 J
Silver	mg/kg	0.97	0.20 J	0.41	0.19 J	0.52	0.55 J	0.31 J
Sodium	mg/kg	94 J	110 J	120 J	100 J	97 J	110 J	130 J
Thallium	mg/kg	0.33	0.28	0.23	0.26	0.34	0.27	0.15 J
Vanadium	mg/kg	22	19	18	20	23	19	12
Zinc	mg/kg	140	90	110	85	110	97	69
PCBs								
Aroclor-1016 (PCB-1016)	ug/kg	130 U	28 U	25 U	25 U	28 U	27 U	24 U
Aroclor-1221 (PCB-1221)	ug/kg	150 U	31 U	28 U	28 U	30 U	30 U	26 U
Aroclor-1232 (PCB-1232)	ug/kg	140 U	29 U	26 U	27 U	29 U	28 U	25 U
Aroclor-1242 (PCB-1242)	ug/kg	120 U	24 U	22 U	22 U	24 U	23 U	20 U
Aroclor-1248 (PCB-1248)	ug/kg	150 U	31 U	28 U	28 U	30 U	30 U	26 U
Aroclor-1254 (PCB-1254)	ug/kg	860	65	150	60	70	110	360
Aroclor-1260 (PCB-1260)	ug/kg	130 U	28 U	25 U	25 U	28 U	27 U	24 U
Pesticides								
4,4'-DDD	ug/kg	9.0 U	1.9 U	1.7 U	1.7 U	1.9 U	1.8 U	7.9 U
4,4'-DDE	ug/kg	9.2 U	2.5 J	1.7 U	1.7 U	1.9 U	1.9 U	8.1 U
4,4'-DDT	ug/kg	6.9 U	1.4 U	1.3 U	1.3 U	1.4 U	17 J	6.1 U
Aldrin	ug/kg	4.7 U	0.98 U	0.88 U	0.89 U	0.96 U	0.95 U	4.1 U
alpha-BHC	ug/kg	5.5 U	1.2 U	1.0 U	1.1 U	1.1 U	1.1 U	4.9 U
alpha-Chlordane	ug/kg	9.1 U	1.9 U	1.7 U	1.7 U	1.9 U	2.5 J	11 J
beta-BHC	ug/kg	11 U	2.2 U	2.0 U	2.0 U	2.2 U	2.1 U	9.3 U
delta-BHC	ug/kg	10 U	2.2 U	1.9 U	2.0 U	2.1 U	2.1 U	9.1 U
Dieldrin	ug/kg	6.7 U	1.4 U	1.3 U	1.3 U	1.4 U	1.4 U	5.9 U
Endosulfan I	ug/kg	7.3 U	1.5 U	1.4 U	1.4 U	1.5 U	1.5 U	6.4 U
Endosulfan II	ug/kg	9.0 U	1.9 U	1.7 U	1.7 U	1.9 U	1.8 U	7.9 U
Endosulfan sulfate	ug/kg	7.8 U	1.6 U	1.5 U	1.5 U	1.6 U	1.6 U	6.9 U
Endrin	ug/kg	12 U	2.4 U	2.2 U	2.2 U	2.4 U	2.3 U	10 U
Endrin aldehyde	ug/kg	8.0 U	1.7 U	1.5 U	1.5 U	1.6 U	1.6 U	7.0 U
Endrin ketone	ug/kg	5.4 U	1.1 U	1.0 U	1.0 U	1.1 U	1.1 U	4.8 U
gamma-BHC (lindane)	ug/kg	11 U	2.3 U	2.1 U	2.1 U	2.2 U	2.2 U	9.6 U
gamma-Chlordane	ug/kg	7.5 U	1.6 U	1.4 U	1.4 U	1.5 U	1.5 NJ	6.6 U
Heptachlor	ug/kg	9.6 U	2.0 U	1.8 U	1.8 U	2.0 U	1.9 U	8.5 U
Heptachlor epoxide	ug/kg	8.8 U	1.8 U	1.7 U	1.7 U	1.8 U	1.8 U	7.7 U
Methoxychlor	ug/kg	40 U	8.4 U	7.5 U	7.6 U	8.2 U	8.1 U	35 U
Toxaphene	ug/kg	150 U	32 U	29 U	51 J	31 U	31 U	130 U

Table 1

Summary of Analytical Results
Floodplain Soil Samples - Adjacent to OU1
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-170**	**SS-171**	**SS-171**	**SS-172**	**SS-172**	**SS-173**	**SS-173**
Sample ID:		**S-38443-080718-JC-137**	**S-38443-080718-JC-138**	**S-38443-080718-JC-139**	**S-38443-080718-JC-141**	**S-38443-080718-JC-142**	**S-38443-080818-JC-143**	**S-38443-080818-JC-144**
Sample Date:		**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/8/2018**	**8/8/2018**
Sample Depth:		**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**
Parameters	**Units**							
Herbicides								
2,4,5-T	ug/kg	16 U	16 U	15 U	16 U	16 U	15 U	14 U
2,4,5-TP (Silvex)	ug/kg	17 U	18 U	16 U	17 U	17 U	16 U	15 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	58 U	62 U	56 U	60 U	60 U	57 U	54 U
General Chemistry								
Cyanide (total)	mg/kg	0.22 U	0.24 U	0.19 U	0.22 U	0.23 U	0.22 U	0.19 U

Notes
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.

Table 1

Summary of Analytical Results
Floodplain Soil Samples - Adjacent to OU1
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-174**	**SS-174**	**SS-174**	**SS-175**	**SS-175**
Sample ID:		**S-38443-080818-JC-145**	**S-38443-080818-JC-146**	**S-38443-080818-JC-147**	**S-38443-080818-JC-148**	**S-38443-080818-JC-149**
Sample Date:		**8/8/2018**	**8/8/2018**	**8/8/2018**	**8/8/2018**	**8/8/2018**
Sample Depth:		**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**
				Duplicate		
Parameters	**Units**					
Volatiles						
1,1,1-Trichloroethane	ug/kg	0.92 U	0.83 U	0.88 U	0.98 U	0.88 U
1,1,2,2-Tetrachloroethane	ug/kg	1.6 U	1.5 U	1.5 U	1.7 U	1.5 U
1,1,2-Trichloroethane	ug/kg	1.3 U	1.1 U	1.2 U	1.4 U	1.2 U
1,1-Dichloroethane	ug/kg	0.78 U	0.70 U	0.74 U	0.83 U	0.74 U
1,1-Dichloroethene	ug/kg	1.0 U	0.92 U	0.97 U	1.1 U	0.97 U
1,2,4-Trichlorobenzene	ug/kg	0.64 U	0.58 U	0.61 U	0.68 U	0.61 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	4.1 U	3.7 U	3.9 U	4.3 U	3.9 U
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	0.87 U	0.78 U	0.83 U	0.92 U	0.82 U
1,2-Dichlorobenzene	ug/kg	1.3 U	1.1 U	1.2 U	1.3 U	1.2 U
1,2-Dichloroethane	ug/kg	0.87 U	0.78 U	0.83 U	0.92 U	0.83 U
1,2-Dichloropropane	ug/kg	0.96 U	0.86 U	0.91 U	1.0 U	0.91 U
1,3-Dichlorobenzene	ug/kg	0.92 U	0.83 U	0.87 U	0.98 U	0.87 U
1,4-Dichlorobenzene	ug/kg	0.99 U	0.89 U	0.95 U	1.1 U	0.94 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	4.0 U	3.6 U	3.8 U	4.3 U	3.8 U
2-Hexanone	ug/kg	4.6 U	4.1 U	4.4 U	4.9 U	4.4 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	4.2 U	3.8 U	4.0 U	4.4 U	4.0 U
Acetone	ug/kg	24 U	21 U	38	25 U	22 U
Benzene	ug/kg	0.79 U	0.71 U	0.75 U	0.83 U	0.75 U
Bromodichloromethane	ug/kg	0.77 U	0.69 U	0.73 U	0.81 U	0.73 U
Bromoform	ug/kg	2.7 U	2.4 U	2.6 U	2.9 U	2.6 U
Bromomethane (Methyl bromide)	ug/kg	1.1 U	1.0 U	1.1 U	1.2 U	1.1 U
Carbon disulfide	ug/kg	1.3 U	1.2 U	1.2 U	1.4 U	1.2 U
Carbon tetrachloride	ug/kg	3.7 U	3.3 U	3.5 U	3.9 U	3.5 U
Chlorobenzene	ug/kg	1.0 U	0.93 U	0.98 U	1.1 U	0.98 U
Chloroethane	ug/kg	1.4 U	1.2 U	1.3 U	1.5 U	1.3 U
Chloroform (Trichloromethane)	ug/kg	0.89 U	0.80 U	0.84 U	0.94 U	0.84 U
Chloromethane (Methyl chloride)	ug/kg	1.2 U	1.1 U	1.1 U	1.2 U	1.1 U
cis-1,2-Dichloroethene	ug/kg	0.73 U	0.66 U	0.70 U	0.78 U	0.70 U
cis-1,3-Dichloropropene	ug/kg	1.6 U	1.5 U	1.5 U	1.7 U	1.5 U
Cyclohexane	ug/kg	1.5 U	1.4 U	1.5 U	1.6 U	1.5 U
Dibromochloromethane	ug/kg	3.1 U	2.8 U	3.0 U	3.3 U	3.0 U
Dichlorodifluoromethane (CFC-12)	ug/kg	1.1 U	0.96 U	1.0 U	1.1 U	1.0 U
Ethylbenzene	ug/kg	1.2 U	1.1 U	1.1 U	1.3 U	1.1 U
Isopropyl benzene	ug/kg	0.94 U	0.84 U	0.89 U	0.99 U	0.89 U
Methyl acetate	ug/kg	3.8 U	3.4 U	3.6 U	4.1 U	3.6 U
Methyl cyclohexane	ug/kg	1.4 U	1.2 U	1.3 U	1.5 U	1.3 U
Methyl tert butyl ether (MTBE)	ug/kg	0.92 U	0.83 U	0.88 U	0.98 U	0.88 U
Methylene chloride	ug/kg	14 U	12 U	13 U	14 U	13 U
Styrene	ug/kg	1.3 U	1.2 U	1.2 U	1.4 U	1.2 U
Tetrachloroethene	ug/kg	0.82 U	0.74 U	0.78 U	0.87 U	0.78 U
Toluene	ug/kg	0.87 U	0.78 U	0.83 U	0.92 U	0.83 U

Table 1

Summary of Analytical Results
Floodplain Soil Samples - Adjacent to OU1
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-174**	**SS-174**	**SS-174**	**SS-175**	**SS-175**
Sample ID:		**S-38443-080818-JC-145**	**S-38443-080818-JC-146**	**S-38443-080818-JC-147**	**S-38443-080818-JC-148**	**S-38443-080818-JC-149**
Sample Date:		**8/8/2018**	**8/8/2018**	**8/8/2018**	**8/8/2018**	**8/8/2018**
Sample Depth:		**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**
				Duplicate		
Parameters	**Units**					
trans-1,2-Dichloroethene	ug/kg	0.52 U	0.47 U	0.50 U	0.56 U	0.50 U
trans-1,3-Dichloropropene	ug/kg	1.2 U	1.0 U	1.1 U	1.2 U	1.1 U
Trichloroethene	ug/kg	0.71 U	0.64 U	0.68 U	0.76 U	0.68 U
Trichlorofluoromethane (CFC-11)	ug/kg	1.2 U	1.1 U	1.2 U	1.3 U	1.2 U
Trifluorotrichloroethane (CFC-113)	ug/kg	1.4 U	1.3 U	1.4 U	1.5 U	1.4 U
Vinyl chloride	ug/kg	0.94 U	0.85 U	0.90 U	1.0 U	0.90 U
Xylenes (total)	ug/kg	1.8 U	1.6 U	1.7 U	1.9 U	1.7 U
Semi-Volatiles						
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	25 U	24 U	24 U	50 U	12 U
2,4,5-Trichlorophenol	ug/kg	170 U	160 U	160 U	340 U	84 U
2,4,6-Trichlorophenol	ug/kg	160 U	150 U	150 U	320 U	77 U
2,4-Dichlorophenol	ug/kg	110 U	100 U	100 U	220 U	53 U
2,4-Dimethylphenol	ug/kg	98 U	94 U	94 U	200 U	48 U
2,4-Dinitrophenol	ug/kg	350 U	330 U	330 U	710 U	170 U
2,4-Dinitrotoluene	ug/kg	150 U	150 U	150 U	310 U	75 U
2,6-Dinitrotoluene	ug/kg	140 U	130 U	130 U	280 U	68 U
2-Chloronaphthalene	ug/kg	34 U	33 U	33 U	70 U	17 U
2-Chlorophenol	ug/kg	25 U	24 U	24 U	50 U	12 U
2-Methylnaphthalene	ug/kg	15 J	16	21	27 J	11
2-Methylphenol	ug/kg	76 U	73 U	73 U	150 U	38 U
2-Nitroaniline	ug/kg	98 U	94 U	94 U	200 U	48 U
2-Nitrophenol	ug/kg	32 U	31 U	31 U	65 U	16 U
3&4-Methylphenol	ug/kg	71 U	68 U	68 U	140 U	35 U
3,3'-Dichlorobenzidine	ug/kg	110 U	100 U	100 U	210 U	52 U
3-Nitroaniline	ug/kg	120 U	120 U	120 U	240 U	59 U
4,6-Dinitro-2-methylphenol	ug/kg	200 U	190 U	190 U	400 U	97 U
4-Bromophenyl phenyl ether	ug/kg	34 U	33 U	33 U	70 U	17 U
4-Chloro-3-methylphenol	ug/kg	110 U	110 U	110 U	220 U	54 U
4-Chloroaniline	ug/kg	74 U	71 U	71 U	150 U	36 U
4-Chlorophenyl phenyl ether	ug/kg	34 U	33 U	33 U	70 U	17 U
4-Nitroaniline	ug/kg	150 U	140 U	140 U	300 U	73 U
4-Nitrophenol	ug/kg	230 U	220 U	220 U	470 U	110 U
Acenaphthene	ug/kg	31	36	54	45	4.5 J
Acenaphthylene	ug/kg	38	37	37	32 J	11
Acetophenone	ug/kg	27 U	26 U	26 U	55 U	13 U
Anthracene	ug/kg	91	110	160	100	18
Atrazine	ug/kg	88 U	85 U	85 U	180 U	44 U
Benzaldehyde	ug/kg	56 U	54 U	54 U	110 U	28 U
Benzo(a)anthracene	ug/kg	590	580	780	520	100
Benzo(a)pyrene	ug/kg	820	750	940	610	130
Benzo(b)fluoranthene	ug/kg	1200	1200	1500	980	190
Benzo(g,h,i)perylene	ug/kg	560	440	530	380	110
Benzo(k)fluoranthene	ug/kg	350	360	440	210	67
Biphenyl (1,1-Biphenyl)	ug/kg	42 U	40 U	40 U	85 U	21 U
bis(2-Chloroethoxy)methane	ug/kg	29 U	28 U	28 U	60 U	15 U

Table 1

Summary of Analytical Results
Floodplain Soil Samples - Adjacent to OU1
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-174**	**SS-174**	**SS-174**	**SS-175**	**SS-175**
Sample ID:		**S-38443-080818-JC-145**	**S-38443-080818-JC-146**	**S-38443-080818-JC-147**	**S-38443-080818-JC-148**	**S-38443-080818-JC-149**
Sample Date:		**8/8/2018**	**8/8/2018**	**8/8/2018**	**8/8/2018**	**8/8/2018**
Sample Depth:		**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**
				Duplicate		
Parameters	**Units**					
bis(2-Chloroethyl)ether	ug/kg	29 U	28 U	28 U	60 U	15 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	150 J	140 J	140 J	250 U	120
Butyl benzylphthalate (BBP)	ug/kg	54 U	52 U	52 U	110 J	27 U
Caprolactam	ug/kg	180 U	180 U	180 U	370 U	91 U
Carbazole	ug/kg	81 J	86 J	110 J	95 U	23 U
Chrysene	ug/kg	840	760	1000	630	140
Dibenz(a,h)anthracene	ug/kg	110	89	140	3.3 U	17
Dibenzofuran	ug/kg	32 U	31 U	47 J	65 U	16 U
Diethyl phthalate	ug/kg	76 U	73 U	73 U	150 U	38 U
Dimethyl phthalate	ug/kg	34 U	33 U	33 U	70 U	17 U
Di-n-butylphthalate (DBP)	ug/kg	54 U	52 U	52 U	110 U	27 U
Di-n-octyl phthalate (DnOP)	ug/kg	69 U	66 U	66 U	140 U	34 U
Fluoranthene	ug/kg	1600	1700	2400	1300	200
Fluorene	ug/kg	35	42	75	42	5.3 J
Hexachlorobenzene	ug/kg	5.1 U	4.9 U	4.9 U	10 U	2.5 U
Hexachlorobutadiene	ug/kg	29 U	28 U	28 U	60 U	15 U
Hexachlorocyclopentadiene	ug/kg	150 U	150 U	150 U	310 U	R
Hexachloroethane	ug/kg	22 U	21 U	21 U	45 U	11 U
Indeno(1,2,3-cd)pyrene	ug/kg	510	390	500	370	90
Isophorone	ug/kg	29 U	28 U	28 U	60 U	15 U
Naphthalene	ug/kg	20	21	24	31 J	37 U
Nitrobenzene	ug/kg	32 U	31 U	31 U	65 U	16 U
N-Nitrosodi-n-propylamine	ug/kg	27 U	26 U	26 U	55 U	13 U
N-Nitrosodiphenylamine	ug/kg	29 U	28 U	28 U	60 U	15 U
Pentachlorophenol	ug/kg	140 U	140 U	140 U	290 U	70 U
Phenanthrene	ug/kg	610	730	1300	690	83
Phenol	ug/kg	20 U	19 U	19 U	40 U	9.7 U
Pyrene	ug/kg	1200	1100	1500	940	190
Metals						
Aluminum	mg/kg	7000	5000	4800	7300	4300
Antimony	mg/kg	0.17 J	0.14 J	0.13 J	0.18 J	0.17 J
Arsenic	mg/kg	6.2	4.8	4.7	6.1	5.1
Barium	mg/kg	110	74	77	100	89
Beryllium	mg/kg	0.45	0.31	0.31	0.48	0.31
Cadmium	mg/kg	0.49	0.42	0.39	0.89	0.56
Calcium	mg/kg	83000	90000	93000	73000	100000
Chromium	mg/kg	15	13	13	24	12
Chromium III (trivalent)	mg/kg	15	13	13	24	12
Chromium VI (hexavalent)	mg/kg	0.59 U	0.56 U	0.57 U	0.60 U	0.29 U
Cobalt	mg/kg	5.2	3.7	3.9	5.0	3.6
Copper	mg/kg	20	16	15	27	16
Iron	mg/kg	14000	10000	10000	13000	9300
Lead	mg/kg	25	27	22	54	19
Magnesium	mg/kg	25000	27000	27000	22000	22000
Manganese	mg/kg	510	370	390	410	360

Table 1

Summary of Analytical Results
Floodplain Soil Samples - Adjacent to OU1
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-174**	**SS-174**	**SS-174**	**SS-175**	**SS-175**
Sample ID:		**S-38443-080818-JC-145**	**S-38443-080818-JC-146**	**S-38443-080818-JC-147**	**S-38443-080818-JC-148**	**S-38443-080818-JC-149**
Sample Date:		**8/8/2018**	**8/8/2018**	**8/8/2018**	**8/8/2018**	**8/8/2018**
Sample Depth:		**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**
				Duplicate		
Parameters	**Units**					
Mercury	mg/kg	0.071 J	0.056 J	0.049 J	0.10 J	0.038 J
Nickel	mg/kg	14 J	11 J	11 J	17 J	10 J
Potassium	mg/kg	910 J	610 J	610 J	810 J	460 J
Selenium	mg/kg	0.92 J	0.73 J	0.66 J	0.80 J	0.59 J
Silver	mg/kg	0.19 J	0.20 J	0.21 J	0.49 J	0.18 J
Sodium	mg/kg	120 J	130 J	120 J	110 J	130 J
Thallium	mg/kg	0.24	0.17 J	0.17 J	0.23	0.13 J
Vanadium	mg/kg	17	14	14	18	12 J
Zinc	mg/kg	75	59	59	89	40 J
PCBs						
Aroclor-1016 (PCB-1016)	ug/kg	28 U	27 U	27 U	28 U	27 U
Aroclor-1221 (PCB-1221)	ug/kg	30 U	29 U	30 U	30 U	29 U
Aroclor-1232 (PCB-1232)	ug/kg	29 U	28 U	29 U	29 U	28 U
Aroclor-1242 (PCB-1242)	ug/kg	24 U	23 U	24 U	24 U	23 U
Aroclor-1248 (PCB-1248)	ug/kg	30 U	29 U	30 U	30 U	29 U
Aroclor-1254 (PCB-1254)	ug/kg	51 J	63	53 J	300	120
Aroclor-1260 (PCB-1260)	ug/kg	28 U	27 U	27 U	28 U	27 U
Pesticides						
4,4'-DDD	ug/kg	9.4 U	9.0 U	9.2 U	9.4 U	9.0 U
4,4'-DDE	ug/kg	9.6 U	9.2 U	9.4 U	9.5 U	9.2 U
4,4'-DDT	ug/kg	7.2 U	6.9 U	7.0 U	7.1 U	6.9 U
Aldrin	ug/kg	4.9 U	4.7 U	4.8 U	4.9 U	4.7 U
alpha-BHC	ug/kg	5.8 U	5.5 U	5.6 U	5.7 U	5.5 U
alpha-Chlordane	ug/kg	9.5 U	9.1 U	9.3 U	9.5 U	9.1 U
beta-BHC	ug/kg	11 U	10 U	11 U	11 U	11 U
delta-BHC	ug/kg	11 U	10 U	10 U	11 U	10 U
Dieldrin	ug/kg	7.0 U	6.7 U	6.8 U	6.9 U	6.7 U
Endosulfan I	ug/kg	7.6 U	7.3 U	7.4 U	7.6 U	7.3 U
Endosulfan II	ug/kg	9.4 U	9.0 U	9.2 U	9.4 U	9.0 U
Endosulfan sulfate	ug/kg	8.1 U	7.8 U	7.9 U	8.1 U	7.8 U
Endrin	ug/kg	12 U	12 U	12 U	12 U	12 U
Endrin aldehyde	ug/kg	8.3 U	7.9 U	8.1 U	8.3 U	8.0 U
Endrin ketone	ug/kg	5.6 U	5.4 U	5.5 U	5.6 U	5.4 U
gamma-BHC (lindane)	ug/kg	11 U	11 U	11 U	11 U	11 U
gamma-Chlordane	ug/kg	7.8 U	7.5 U	7.6 U	7.8 U	7.5 U
Heptachlor	ug/kg	10 U	9.6 U	9.8 U	10 U	9.6 U
Heptachlor epoxide	ug/kg	9.1 U	8.7 U	8.9 U	9.1 U	8.8 U
Methoxychlor	ug/kg	42 U	40 U	41 U	41 U	40 U
Toxaphene	ug/kg	160 U	150 U	160 U	160 U	150 U

Table 1

Summary of Analytical Results
Floodplain Soil Samples - Adjacent to OU1
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-174**	**SS-174**	**SS-174**	**SS-175**	**SS-175**
Sample ID:		**S-38443-080818-JC-145**	**S-38443-080818-JC-146**	**S-38443-080818-JC-147**	**S-38443-080818-JC-148**	**S-38443-080818-JC-149**
Sample Date:		**8/8/2018**	**8/8/2018**	**8/8/2018**	**8/8/2018**	**8/8/2018**
Sample Depth:		**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**
				Duplicate		
Parameters	**Units**					
Herbicides						
2,4,5-T	ug/kg	16 U	16 U	15 U	16 U	16 U
2,4,5-TP (Silvex)	ug/kg	17 U	17 U	16 U	17 U	17 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	61 U	59 U	57 U	59 U	59 U
General Chemistry						
Cyanide (total)	mg/kg	0.22 U	0.24 U	0.21 U	0.25 U	0.23 U

Notes
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.

Table 2

Summary of Detections
Floodplain Soil Samples - Adjacent to OU1
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:							**SS-164**	**SS-164**	**SS-165**	**SS-165**
Sample ID:							**S-38443-080618-JC-122**	**S-38443-080618-JC-123**	**S-38443-080618-JC-124**	**S-38443-080618-JC-125**
Sample Date:							**8/6/2018**	**8/6/2018**	**8/6/2018**	**8/6/2018**
Sample Depth:							**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.17-0.67 ft BGS**
										Duplicate
Parameters	**Units**	**Samples**	**Detects**	**Min Detect**	**Max Detect**	**Average (Detects)**				
Volatiles										
1,4-Dichlorobenzene	ug/kg	26	1	1.2	1.2	1.200	0.93 U	1.3 U	1.2 U	1.3 U
Acetone	ug/kg	26	6	22	140	66.833	**92**	31 U	29 U	32 U
Methylene chloride	ug/kg	26	1	21	21	21.000	13 U	18 U	17 U	18 U
Toluene	ug/kg	26	1	1.3	1.3	1.300	0.82 U	1.1 U	**1.3 J**	1.2 U
Semi-Volatiles										
2-Methylnaphthalene	ug/kg	26	25	5.7	110	25.892	**110**	**5.7 J**	**7.5 J**	**8.7**
Acenaphthene	ug/kg	26	23	4.5	150	41.191	**61**	1.1 U	**5.4 J**	**6.0 J**
Acenaphthylene	ug/kg	26	26	5.5	80	33.719	**46**	**6.2 J**	**11**	**11**
Anthracene	ug/kg	26	26	6.6	1500	140.765	**120**	**6.6 J**	**20**	**21**
Benzaldehyde	ug/kg	26	1	49	49	49.000	25 U	32 U	28 U	25 U
Benzo(a)anthracene	ug/kg	26	26	38	1900	469.115	**570**	**39**	**100**	**110**
Benzo(a)pyrene	ug/kg	26	26	43	1600	509.346	**590**	**50**	**120**	**120**
Benzo(b)fluoranthene	ug/kg	26	26	50	2700	853.462	**1000**	**70**	**190**	**200**
Benzo(g,h,i)perylene	ug/kg	26	26	20	810	298.308	**440**	**36**	**86**	**80**
Benzo(k)fluoranthene	ug/kg	26	26	23	1100	301.462	**410**	**28**	**76**	**73**
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	26	18	68	160	117.333	**130**	**89 J**	61 U	56 U
Butyl benzylphthalate (BBP)	ug/kg	26	3	28	110	62.333	24 U	31 U	26 U	24 U
Carbazole	ug/kg	26	18	32	280	101.778	**120**	26 U	23 U	21 U
Chrysene	ug/kg	26	26	40	1900	562.192	**660**	**47**	**120**	**120**
Dibenz(a,h)anthracene	ug/kg	26	16	17	190	96.563	**120**	0.92 U	0.79 U	0.72 U
Dibenzofuran	ug/kg	26	14	16	100	45.500	**68**	18 U	16 U	14 U
Di-n-butylphthalate (DBP)	ug/kg	26	13	26	59	37.077	**36 J**	**59 J**	**37 J**	24 U
Fluoranthene	ug/kg	26	26	54	4600	1181.654	**1300**	**79**	**220**	**220**
Fluorene	ug/kg	26	24	4.7	260	46.096	**48**	0.74 U	**6.4 J**	**4.7 J**
Indeno(1,2,3-cd)pyrene	ug/kg	26	26	17	690	277.769	**390**	**29**	**77**	**72**
Naphthalene	ug/kg	26	24	5	99	26.321	**67**	**5.0 J**	**5.5 J**	**7.0 J**
Phenanthrene	ug/kg	26	26	18	2500	595.808	**830**	**34**	**87**	**79**
Phenol	ug/kg	26	1	15	15	15.000	8.8 U	11 U	9.6 U	8.8 U
Pyrene	ug/kg	26	26	68	3900	933.885	**1100**	**73**	**200**	**200**
Metals										
Aluminum	mg/kg	26	26	3900	14000	7188.462	**6200**	**6000**	**4800**	**5200**
Antimony	mg/kg	26	26	0.13	1.3	0.352	**0.63 J**	**0.27 J**	**0.33 J**	**0.37 J**
Arsenic	mg/kg	26	26	4.7	12	7.735	**8.0**	**5.4**	**7.4**	**7.7**
Barium	mg/kg	26	26	61	160	110.192	**92**	**85**	**100**	**110**
Beryllium	mg/kg	26	25	0.3	0.83	0.480	**0.56**	**0.47**	**0.39**	**0.37**
Cadmium	mg/kg	26	26	0.2	2.5	0.777	**0.91**	**0.46**	**0.39**	**0.41**
Calcium	mg/kg	26	26	42000	100000	78384.615	**74000**	**42000**	**85000**	**88000**
Chromium	mg/kg	26	26	7.6	54	19.535	**19**	**12**	**10**	**11**
Chromium III (trivalent)	mg/kg	26	26	7.3	53	19.369	**19**	**11**	**10**	**11**
Chromium VI (hexavalent)	mg/kg	26	6	0.36	0.76	0.507	0.53 U	**0.52 J**	0.58 U	0.53 U
Cobalt	mg/kg	26	26	3.3	9.7	5.631	**5.4**	**4.6**	**4.1**	**4.4**
Copper	mg/kg	26	26	9.7	60	25.565	**35**	**15**	**14**	**15**
Iron	mg/kg	26	26	8700	25000	14665.385	**14000**	**12000**	**11000**	**12000**

Table 2

Summary of Detections
Floodplain Soil Samples - Adjacent to OU1
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:							**SS-164**	**SS-164**	**SS-165**	**SS-165**
Sample ID:							**S-38443-080618-JC-122**	**S-38443-080618-JC-123**	**S-38443-080618-JC-124**	**S-38443-080618-JC-125**
Sample Date:							**8/6/2018**	**8/6/2018**	**8/6/2018**	**8/6/2018**
Sample Depth:							**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.17-0.67 ft BGS**
										Duplicate
Parameters	**Units**	**Samples**	**Detects**	**Min Detect**	**Max Detect**	**Average (Detects)**				
Lead	mg/kg	26	26	11	92	39.308	**55**	**18**	**20**	**21**
Magnesium	mg/kg	26	26	18000	35000	24500.000	**24000**	**18000**	**28000**	**27000**
Manganese	mg/kg	26	26	320	690	486.923	**450**	**440**	**490**	**520**
Mercury	mg/kg	26	25	0.035	0.16	0.078	**0.079 J**	0.028 U	**0.036 J**	**0.040 J**
Nickel	mg/kg	26	26	9.1	32	17.004	**17**	**12**	**10**	**11**
Potassium	mg/kg	26	26	460	1900	1025.769	**940**	**850**	**1000**	**1100**
Selenium	mg/kg	26	26	0.49	1.6	1.030	**1.1**	**0.82 J**	**0.87 J**	**0.85 J**
Silver	mg/kg	26	26	0.036	1.3	0.344	**0.38**	**0.13 J**	**0.067 J**	**0.074 J**
Sodium	mg/kg	26	26	82	130	103.692	**93 J**	**82 J**	**95 J**	**94 J**
Thallium	mg/kg	26	26	0.11	0.49	0.243	**0.20**	**0.16 J**	**0.15 J**	**0.15 J**
Vanadium	mg/kg	26	26	12	33	18.500	**17**	**16**	**14**	**15**
Zinc	mg/kg	26	26	28	180	87.731	**91**	**49**	**55**	**59**
PCBs										
Aroclor-1248 (PCB-1248)	ug/kg	26	1	4600	4600	4600.000	27 U	33 U	28 U	27 U
Aroclor-1254 (PCB-1254)	ug/kg	26	20	39	860	170.900	**280**	**57 J**	26 U	26 U
Pesticides										
4,4'-DDE	ug/kg	25	2	2.4	2.5	2.450	8.6 U	2.1 U	1.7 U	1.7 U
4,4'-DDT	ug/kg	25	1	17	17	17.000	6.5 U	1.5 U	1.3 U	1.3 U
alpha-Chlordane	ug/kg	26	2	2.5	11	6.750	8.6 U	2.0 U	1.7 U	1.7 U
Endosulfan sulfate	ug/kg	25	1	2.9	2.9	2.900	7.3 U	1.7 U	1.5 U	1.5 U
Endrin aldehyde	ug/kg	25	2	2	8.9	5.450	**8.9 J**	1.8 U	1.5 U	1.5 U
gamma-BHC (lindane)	ug/kg	25	1	29	29	29.000	10 U	2.4 U	2.1 U	2.0 U
gamma-Chlordane	ug/kg	25	1	1.5	1.5	1.500	7.0 U	1.7 U	1.4 U	1.4 U
Heptachlor epoxide	ug/kg	26	1	2.8	2.8	2.800	8.2 U	2.0 U	1.7 U	1.6 U
Toxaphene	ug/kg	26	1	51	51	51.000	140 U	34 U	29 U	29 U
Herbicides										
2,4,5-TP (Silvex)	ug/kg	26	1	73	73	73.000	16 U	20 U	17 U	16 U
General Chemistry										
Cyanide (total)	mg/kg	26	1	0.27	0.27	0.270	0.19 U	0.26 U	0.22 U	0.22 U

Notes
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.

Table 2

Summary of Detections
Floodplain Soil Samples - Adjacent to OU1
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-165**	**SS-166**	**SS-166**	**SS-167**	**SS-167**	**SS-168**	**SS-168**
Sample ID:		**S-38443-080618-JC-126**	**S-38443-080718-JC-127**	**S-38443-080718-JC-128**	**S-38443-080718-JC-129**	**S-38443-080718-JC-130**	**S-38443-080718-JC-131**	**S-38443-080718-JC-132**
Sample Date:		**8/6/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**
Sample Depth:		**0.67-1.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**
Parameters	**Units**							
Volatiles								
1,4-Dichlorobenzene	ug/kg	1.3 U	1.1 U	1.0 U	0.99 U	0.91 U	1.0 U	1.1 U
Acetone	ug/kg	31 U	27 U	24 U	**45**	**140**	24 U	26 U
Methylene chloride	ug/kg	18 U	15 U	14 U	13 U	12 U	14 U	15 U
Toluene	ug/kg	1.1 U	0.99 U	0.89 U	0.86 U	0.80 U	0.88 U	0.96 U
Semi-Volatiles								
2-Methylnaphthalene	ug/kg	**9.6**	**31**	**17**	**6.8 J**	0.54 U	**13**	**32**
Acenaphthene	ug/kg	**35**	**28**	0.93 U	**8.5**	0.82 U	**10**	**12**
Acenaphthylene	ug/kg	**12**	**40**	**23**	**11**	**5.5 J**	**37**	**44**
Anthracene	ug/kg	**99**	**97**	**33**	**51**	**8.3**	**37**	**44**
Benzaldehyde	ug/kg	28 U	**49 J**	28 U	25 U	25 U	30 U	29 U
Benzo(a)anthracene	ug/kg	**270**	**410**	**200**	**130**	**38**	**260**	**290**
Benzo(a)pyrene	ug/kg	**230**	**450**	**210**	**110**	**43**	**320**	**340**
Benzo(b)fluoranthene	ug/kg	**370**	**820**	**310**	**160**	**50**	**630**	**600**
Benzo(g,h,i)perylene	ug/kg	**140**	**260**	**180**	**54**	**20**	**210**	**230**
Benzo(k)fluoranthene	ug/kg	**150**	**260**	**160**	**71**	**23**	**290**	**280**
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	63 U	**110**	63 U	**68 J**	55 U	**76 J**	**130**
Butyl benzylphthalate (BBP)	ug/kg	27 U	28 U	27 U	24 U	24 U	29 U	**28 J**
Carbazole	ug/kg	**84**	**64**	23 U	20 U	20 U	**34 J**	**32 J**
Chrysene	ug/kg	**270**	**470**	**230**	**120**	**40**	**380**	**360**
Dibenz(a,h)anthracene	ug/kg	**38**	**72**	0.81 U	0.71 U	0.71 U	**50**	**59**
Dibenzofuran	ug/kg	**30 J**	**31 J**	16 U	14 U	14 U	17 U	16 U
Di-n-butylphthalate (DBP)	ug/kg	**34 J**	**34 J**	27 U	**41 J**	**43 J**	**30 J**	**44 J**
Fluoranthene	ug/kg	**650**	**930**	**350**	**230**	**54**	**620**	**520**
Fluorene	ug/kg	**42**	**33**	**7.2 J**	**8.7**	0.57 U	**11**	**12**
Indeno(1,2,3-cd)pyrene	ug/kg	**130**	**240**	**150**	**47**	**17**	**200**	**200**
Naphthalene	ug/kg	**7.2 J**	**27**	**15**	**10**	8.6 U	**11**	**23**
Phenanthrene	ug/kg	**500**	**450**	**110**	**120**	**18**	**180**	**190**
Phenol	ug/kg	9.9 U	10 U	9.8 U	8.6 U	8.6 U	10 U	10 U
Pyrene	ug/kg	**560**	**820**	**340**	**250**	**68**	**550**	**480**
Metals								
Aluminum	mg/kg	**5000**	**7500**	**8500**	**4900**	**3900**	**12000**	**14000**
Antimony	mg/kg	**0.34 J**	**1.3 J**	**0.90 J**	**0.29 J**	**0.15 J**	**0.33 J**	**0.71 J**
Arsenic	mg/kg	**11**	**9.8**	**10**	**8.9**	**6.3**	**10**	**12**
Barium	mg/kg	**150**	**140**	**140**	**88**	**62**	**150**	**160**
Beryllium	mg/kg	**0.34**	**0.67**	**0.62**	**0.30**	0.24 U	**0.66**	**0.83**
Cadmium	mg/kg	**0.38**	**1.2**	**0.79**	**0.27**	**0.20**	**0.78**	**1.5**
Calcium	mg/kg	**100000**	**72000**	**78000**	**85000**	**78000**	**58000**	**50000**
Chromium	mg/kg	**11**	**18**	**16**	**9.3**	**7.6**	**23**	**36**
Chromium III (trivalent)	mg/kg	**11**	**18**	**16**	**9.3**	**7.3**	**23**	**36**
Chromium VI (hexavalent)	mg/kg	0.59 U	1.5 U	0.30 U	0.26 U	**0.36 J**	0.62 U	0.61 U
Cobalt	mg/kg	**4.4**	**5.8**	**6.6**	**3.9**	**3.3**	**9.1**	**9.7**
Copper	mg/kg	**14**	**42**	**33**	**13**	**9.7**	**31**	**46**
Iron	mg/kg	**12000**	**14000**	**16000**	**11000**	**8700**	**24000**	**25000**

Table 2

Summary of Detections
Floodplain Soil Samples - Adjacent to OU1
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-165**	**SS-166**	**SS-166**	**SS-167**	**SS-167**	**SS-168**	**SS-168**
Sample ID:		**S-38443-080618-JC-126**	**S-38443-080718-JC-127**	**S-38443-080718-JC-128**	**S-38443-080718-JC-129**	**S-38443-080718-JC-130**	**S-38443-080718-JC-131**	**S-38443-080718-JC-132**
Sample Date:		**8/6/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**
Sample Depth:		**0.67-1.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**
Parameters	**Units**							
Lead	mg/kg	**18**	**68**	**47**	**14**	**11**	**41**	**64**
Magnesium	mg/kg	**35000**	**24000**	**24000**	**23000**	**27000**	**20000**	**18000**
Manganese	mg/kg	**690**	**470**	**550**	**390**	**320**	**650**	**610**
Mercury	mg/kg	**0.035 J**	**0.13**	**0.10 J**	**0.054 J**	**0.048 J**	**0.086 J**	**0.14**
Nickel	mg/kg	**11**	**17**	**18**	**10**	**9.1**	**26**	**32**
Potassium	mg/kg	**950**	**1200**	**1100**	**780**	**530**	**1900**	**1800**
Selenium	mg/kg	**0.79 J**	**1.5**	**1.3**	**0.65 J**	**0.49 J**	**1.6**	**1.6**
Silver	mg/kg	**0.060 J**	**0.34**	**0.25**	**0.059 J**	**0.036 J**	**0.42**	**0.74**
Sodium	mg/kg	**130 J**	**93 J**	**89 J**	**87 J**	**89 J**	**89 J**	**88 J**
Thallium	mg/kg	**0.15 J**	**0.28**	**0.27**	**0.11 J**	**0.18 J**	**0.40**	**0.49**
Vanadium	mg/kg	**15**	**20**	**21**	**13**	**12**	**28**	**33**
Zinc	mg/kg	**50**	**140**	**110**	**35**	**28**	**120**	**150**
PCBs								
Aroclor-1248 (PCB-1248)	ug/kg	29 U	31 U	28 U	27 U	25 U	32 U	30 U
Aroclor-1254 (PCB-1254)	ug/kg	28 U	**95**	**39 J**	26 U	24 U	**56 J**	**440**
Pesticides								
4,4'-DDE	ug/kg	1.8 U	1.9 U	R	1.7 U	1.6 U	2.0 U	**2.4 NJ**
4,4'-DDT	ug/kg	1.4 U	1.4 U	R	1.3 U	1.2 U	1.5 U	1.4 U
alpha-Chlordane	ug/kg	1.8 U	1.9 U	1.8 UJ	1.7 U	1.6 U	2.0 U	1.8 U
Endosulfan sulfate	ug/kg	1.6 U	1.6 U	R	1.4 U	1.4 U	1.7 U	**2.9 J**
Endrin aldehyde	ug/kg	1.6 U	1.7 U	R	1.5 U	1.4 U	**2.0 NJ**	1.6 U
gamma-BHC (lindane)	ug/kg	2.2 U	2.3 U	R	2.0 U	1.9 U	2.4 U	2.2 U
gamma-Chlordane	ug/kg	1.5 U	1.6 U	R	1.4 U	1.3 U	1.6 U	1.5 U
Heptachlor epoxide	ug/kg	1.8 U	1.8 U	1.7 UJ	1.6 U	1.5 U	1.9 U	**2.8 NJ**
Toxaphene	ug/kg	30 U	32 U	30 U	28 U	26 U	33 U	31 U
Herbicides								
2,4,5-TP (Silvex)	ug/kg	18 U	17 U	17 U	15 U	15 U	18 U	19 U
General Chemistry								
Cyanide (total)	mg/kg	0.24 U	**0.27 J**	0.24 U	0.19 U	0.20 U	0.23 U	0.25 U

Notes
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.

Table 2

Summary of Detections
Floodplain Soil Samples - Adjacent to OU1
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-169**	**SS-169**	**SS-170**	**SS-170**	**SS-171**	**SS-171**	**SS-172**
Sample ID:		**S-38443-080718-JC-134**	**S-38443-080718-JC-135**	**S-38443-080718-JC-136**	**S-38443-080718-JC-137**	**S-38443-080718-JC-138**	**S-38443-080718-JC-139**	**S-38443-080718-JC-141**
Sample Date:		**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**
Sample Depth:		**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**
Parameters	**Units**							
Volatiles								
1,4-Dichlorobenzene	ug/kg	**1.2 J**	1.1 U	0.97 U	0.88 U	1.0 U	1.1 U	1.1 U
Acetone	ug/kg	29 U	26 U	23 U	21 U	25 U	26 U	25 U
Methylene chloride	ug/kg	17 U	15 U	13 U	12 U	14 U	15 U	15 U
Toluene	ug/kg	1.1 U	0.96 U	0.85 U	0.77 U	0.92 U	0.95 U	0.93 U
Semi-Volatiles								
2-Methylnaphthalene	ug/kg	**18**	**35**	**26**	**62**	**29**	**42**	**13**
Acenaphthene	ug/kg	**26**	**60**	**31**	**120**	**45**	**120**	**16**
Acenaphthylene	ug/kg	**46**	**50**	**35**	**56**	**55**	**80**	**32**
Anthracene	ug/kg	**90**	**100**	**85**	**170**	**150**	**1500**	**60**
Benzaldehyde	ug/kg	28 U	29 U	29 U	54 U	56 U	110 U	28 U
Benzo(a)anthracene	ug/kg	**520**	**500**	**540**	**820**	**690**	**1900**	**380**
Benzo(a)pyrene	ug/kg	**590**	**570**	**610**	**850**	**750**	**1600**	**430**
Benzo(b)fluoranthene	ug/kg	**1100**	**1000**	**1100**	**1400**	**1400**	**2700**	**870**
Benzo(g,h,i)perylene	ug/kg	**340**	**300**	**300**	**810**	**380**	**630**	**240**
Benzo(k)fluoranthene	ug/kg	**410**	**400**	**410**	**560**	**570**	**1100**	**280**
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	**80 J**	**150**	**79 J**	**150 J**	130 U	230 U	**100**
Butyl benzylphthalate (BBP)	ug/kg	27 U	28 U	27 U	52 U	54 U	100 U	27 U
Carbazole	ug/kg	**72**	**85**	**77**	**180**	**110 J**	**280**	**56 J**
Chrysene	ug/kg	**680**	**610**	**700**	**1000**	**900**	**1900**	**520**
Dibenz(a,h)anthracene	ug/kg	**88**	0.83 U	**86**	**190**	**110**	**190**	0.80 U
Dibenzofuran	ug/kg	**22 J**	**30 J**	**25 J**	**94 J**	**39 J**	**89 J**	**16 J**
Di-n-butylphthalate (DBP)	ug/kg	27 U	**29 J**	**36 J**	52 U	54 U	100 U	27 U
Fluoranthene	ug/kg	**1300**	**1200**	**1300**	**2100**	**1800**	**4600**	**950**
Fluorene	ug/kg	**28**	**46**	**31**	**83**	**60**	**260**	**18**
Indeno(1,2,3-cd)pyrene	ug/kg	**330**	**290**	**300**	**690**	**360**	**640**	**230**
Naphthalene	ug/kg	**19**	**29**	**25**	**99**	**29**	**37**	**10**
Phenanthrene	ug/kg	**480**	**560**	**510**	**1400**	**800**	**2500**	**350**
Phenol	ug/kg	9.8 U	10 U	10 U	19 U	20 U	37 U	**15 J**
Pyrene	ug/kg	**1100**	**1000**	**1100**	**1800**	**1600**	**3900**	**830**
Metals								
Aluminum	mg/kg	**8600**	**11000**	**7600**	**9000**	**7400**	**6900**	**7900**
Antimony	mg/kg	**0.24 J**	**0.39 J**	**0.40 J**	**0.30 J**	**0.22 J**	**0.28 J**	**0.21 J**
Arsenic	mg/kg	**7.7**	**10**	**9.2**	**8.9**	**7.3**	**7.2**	**6.8**
Barium	mg/kg	**120**	**160**	**110**	**130**	**110**	**97**	**110**
Beryllium	mg/kg	**0.46**	**0.64**	**0.45**	**0.55**	**0.44**	**0.39**	**0.44**
Cadmium	mg/kg	**0.74**	**2.5**	**0.61**	**1.9**	**0.54**	**0.78**	**0.49**
Calcium	mg/kg	**76000**	**68000**	**88000**	**69000**	**83000**	**90000**	**79000**
Chromium	mg/kg	**21**	**54**	**19**	**43**	**16**	**22**	**17**
Chromium III (trivalent)	mg/kg	**21**	**53**	**19**	**43**	**16**	**21**	**17**
Chromium VI (hexavalent)	mg/kg	0.59 U	**0.76 J**	0.60 U	**0.43 J**	0.59 U	**0.42 J**	0.58 U
Cobalt	mg/kg	**6.6**	**8.5**	**6.2**	**7.3**	**6.3**	**5.8**	**6.1**
Copper	mg/kg	**26**	**60**	**23**	**45**	**23**	**31**	**21**
Iron	mg/kg	**17000**	**22000**	**16000**	**18000**	**17000**	**16000**	**16000**

Table 2

Summary of Detections
Floodplain Soil Samples - Adjacent to OU1
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-169**	**SS-169**	**SS-170**	**SS-170**	**SS-171**	**SS-171**	**SS-172**
Sample ID:		**S-38443-080718-JC-134**	**S-38443-080718-JC-135**	**S-38443-080718-JC-136**	**S-38443-080718-JC-137**	**S-38443-080718-JC-138**	**S-38443-080718-JC-139**	**S-38443-080718-JC-141**
Sample Date:		**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**
Sample Depth:		**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**
Parameters	**Units**							
Lead	mg/kg	**36**	**92**	**34**	**92**	**29**	**44**	**27**
Magnesium	mg/kg	**24000**	**22000**	**25000**	**21000**	**25000**	**28000**	**25000**
Manganese	mg/kg	**520**	**610**	**500**	**550**	**520**	**470**	**460**
Mercury	mg/kg	**0.078 J**	**0.16**	**0.068 J**	**0.15**	**0.062 J**	**0.075 J**	**0.060 J**
Nickel	mg/kg	**20**	**32**	**18**	**28**	**17**	**20**	**17**
Potassium	mg/kg	**1200**	**1400**	**1100**	**1000**	**1100**	**1000**	**1300**
Selenium	mg/kg	**1.3**	**1.4**	**1.2**	**1.3**	**1.3**	**1.1**	**1.1**
Silver	mg/kg	**0.39**	**1.3**	**0.28**	**0.97**	**0.20 J**	**0.41**	**0.19 J**
Sodium	mg/kg	**100 J**	**96 J**	**100 J**	**94 J**	**110 J**	**120 J**	**100 J**
Thallium	mg/kg	**0.30**	**0.40**	**0.28**	**0.33**	**0.28**	**0.23**	**0.26**
Vanadium	mg/kg	**21**	**27**	**21**	**22**	**19**	**18**	**20**
Zinc	mg/kg	**100**	**180**	**91**	**140**	**90**	**110**	**85**
PCBs								
Aroclor-1248 (PCB-1248)	ug/kg	30 U	**4600**	29 U	150 U	31 U	28 U	28 U
Aroclor-1254 (PCB-1254)	ug/kg	**110**	290 U	**79**	**860**	**65**	**150**	**60**
Pesticides								
4,4'-DDE	ug/kg	1.9 U	19 U	1.8 U	9.2 U	**2.5 J**	1.7 U	1.7 U
4,4'-DDT	ug/kg	1.4 U	14 U	1.4 U	6.9 U	1.4 U	1.3 U	1.3 U
alpha-Chlordane	ug/kg	1.9 U	19 U	1.8 U	9.1 U	1.9 U	1.7 U	1.7 U
Endosulfan sulfate	ug/kg	1.6 U	16 U	1.6 U	7.8 U	1.6 U	1.5 U	1.5 U
Endrin aldehyde	ug/kg	1.6 U	16 U	1.6 U	8.0 U	1.7 U	1.5 U	1.5 U
gamma-BHC (lindane)	ug/kg	2.2 U	**29 J**	2.2 U	11 U	2.3 U	2.1 U	2.1 U
gamma-Chlordane	ug/kg	1.5 U	15 U	1.5 U	7.5 U	1.6 U	1.4 U	1.4 U
Heptachlor epoxide	ug/kg	1.8 U	18 U	1.8 U	8.8 U	1.8 U	1.7 U	1.7 U
Toxaphene	ug/kg	31 U	310 U	30 U	150 U	32 U	29 U	**51 J**
Herbicides								
2,4,5-TP (Silvex)	ug/kg	18 U	**73 J**	17 U	17 U	18 U	16 U	17 U
General Chemistry								
Cyanide (total)	mg/kg	0.22 U	0.22 U	0.22 U	0.22 U	0.24 U	0.19 U	0.22 U

Notes
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.

Table 2

Summary of Detections
Floodplain Soil Samples - Adjacent to OU1
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-172**	**SS-173**	**SS-173**	**SS-174**	**SS-174**	**SS-174**	**SS-175**
Sample ID:		**S-38443-080718-JC-142**	**S-38443-080818-JC-143**	**S-38443-080818-JC-144**	**S-38443-080818-JC-145**	**S-38443-080818-JC-146**	**S-38443-080818-JC-147**	**S-38443-080818-JC-148**
Sample Date:		**8/7/2018**	**8/8/2018**	**8/8/2018**	**8/8/2018**	**8/8/2018**	**8/8/2018**	**8/8/2018**
Sample Depth:		**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**
							Duplicate	
Parameters	**Units**							
Volatiles								
1,4-Dichlorobenzene	ug/kg	0.96 U	0.93 U	1.0 U	0.99 U	0.89 U	0.95 U	1.1 U
Acetone	ug/kg	23 U	**22 J**	**64**	24 U	21 U	**38**	25 U
Methylene chloride	ug/kg	**21 J**	13 U	14 U	14 U	12 U	13 U	14 U
Toluene	ug/kg	0.84 U	0.82 U	0.89 U	0.87 U	0.78 U	0.83 U	0.92 U
Semi-Volatiles								
2-Methylnaphthalene	ug/kg	**24**	**33**	**34**	**15 J**	**16**	**21**	**27 J**
Acenaphthene	ug/kg	**21**	**150**	**22**	**31**	**36**	**54**	**45**
Acenaphthylene	ug/kg	**41**	**38**	**42**	**38**	**37**	**37**	**32 J**
Anthracene	ug/kg	**69**	**270**	**150**	**91**	**110**	**160**	**100**
Benzaldehyde	ug/kg	28 U	54 U	25 U	56 U	54 U	54 U	110 U
Benzo(a)anthracene	ug/kg	**390**	**960**	**510**	**590**	**580**	**780**	**520**
Benzo(a)pyrene	ug/kg	**430**	**1000**	**580**	**820**	**750**	**940**	**610**
Benzo(b)fluoranthene	ug/kg	**860**	**1500**	**790**	**1200**	**1200**	**1500**	**980**
Benzo(g,h,i)perylene	ug/kg	**210**	**490**	**300**	**560**	**440**	**530**	**380**
Benzo(k)fluoranthene	ug/kg	**290**	**350**	**220**	**350**	**360**	**440**	**210**
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	**120**	**120 J**	**160**	**150 J**	**140 J**	**140 J**	250 U
Butyl benzylphthalate (BBP)	ug/kg	**49 J**	52 U	24 U	54 U	52 U	52 U	**110 J**
Carbazole	ug/kg	**54 J**	**250**	**57**	**81 J**	**86 J**	**110 J**	95 U
Chrysene	ug/kg	**480**	**1100**	**540**	**840**	**760**	**1000**	**630**
Dibenz(a,h)anthracene	ug/kg	0.80 U	**110**	**76**	**110**	**89**	**140**	3.3 U
Dibenzofuran	ug/kg	**17 J**	**100 J**	**29 J**	32 U	31 U	**47 J**	65 U
Di-n-butylphthalate (DBP)	ug/kg	**33 J**	52 U	**26 J**	54 U	52 U	52 U	110 U
Fluoranthene	ug/kg	**900**	**2800**	**1400**	**1600**	**1700**	**2400**	**1300**
Fluorene	ug/kg	**23**	**150**	**35**	**35**	**42**	**75**	**42**
Indeno(1,2,3-cd)pyrene	ug/kg	**210**	**470**	**290**	**510**	**390**	**500**	**370**
Naphthalene	ug/kg	**16**	**54**	**40**	**20**	**21**	**24**	**31 J**
Phenanthrene	ug/kg	**350**	**1900**	**630**	**610**	**730**	**1300**	**690**
Phenol	ug/kg	9.7 U	19 U	8.8 U	20 U	19 U	19 U	40 U
Pyrene	ug/kg	**790**	**1700**	**890**	**1200**	**1100**	**1500**	**940**
Metals								
Aluminum	mg/kg	**9700**	**8100**	**4300**	**7000**	**5000**	**4800**	**7300**
Antimony	mg/kg	**0.24 J**	**0.26 J**	**0.20 J**	**0.17 J**	**0.14 J**	**0.13 J**	**0.18 J**
Arsenic	mg/kg	**8.6**	**7.2**	**4.8**	**6.2**	**4.8**	**4.7**	**6.1**
Barium	mg/kg	**130**	**110**	**61**	**110**	**74**	**77**	**100**
Beryllium	mg/kg	**0.53**	**0.73**	**0.30**	**0.45**	**0.31**	**0.31**	**0.48**
Cadmium	mg/kg	**0.84**	**0.93**	**0.82**	**0.49**	**0.42**	**0.39**	**0.89**
Calcium	mg/kg	**68000**	**72000**	**96000**	**83000**	**90000**	**93000**	**73000**
Chromium	mg/kg	**23**	**24**	**19**	**15**	**13**	**13**	**24**
Chromium III (trivalent)	mg/kg	**23**	**24**	**18**	**15**	**13**	**13**	**24**
Chromium VI (hexavalent)	mg/kg	0.58 U	0.57 U	**0.55 J**	0.59 U	0.56 U	0.57 U	0.60 U
Cobalt	mg/kg	**7.5**	**5.9**	**3.5 J**	**5.2**	**3.7**	**3.9**	**5.0**
Copper	mg/kg	**28**	**25**	**21 J**	**20**	**16**	**15**	**27**
Iron	mg/kg	**19000**	**15000**	**9300 J**	**14000**	**10000**	**10000**	**13000**

Table 2

Summary of Detections
Floodplain Soil Samples - Adjacent to OU1
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-172**	**SS-173**	**SS-173**	**SS-174**	**SS-174**	**SS-174**	**SS-175**
Sample ID:		**S-38443-080718-JC-142**	**S-38443-080818-JC-143**	**S-38443-080818-JC-144**	**S-38443-080818-JC-145**	**S-38443-080818-JC-146**	**S-38443-080818-JC-147**	**S-38443-080818-JC-148**
Sample Date:		**8/7/2018**	**8/8/2018**	**8/8/2018**	**8/8/2018**	**8/8/2018**	**8/8/2018**	**8/8/2018**
Sample Depth:		**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**
							Duplicate	
Parameters	**Units**							
Lead	mg/kg	**46**	**46**	**52 J**	**25**	**27**	**22**	**54**
Magnesium	mg/kg	**23000**	**24000**	**29000 J**	**25000**	**27000**	**27000**	**22000**
Manganese	mg/kg	**560**	**500**	**350 J**	**510**	**370**	**390**	**410**
Mercury	mg/kg	**0.094 J**	**0.093 J**	**0.057 J**	**0.071 J**	**0.056 J**	**0.049 J**	**0.10 J**
Nickel	mg/kg	**23**	**19 J**	**12 J**	**14 J**	**11 J**	**11 J**	**17 J**
Potassium	mg/kg	**1500**	**1000 J**	**520 J**	**910 J**	**610 J**	**610 J**	**810 J**
Selenium	mg/kg	**1.3**	**0.97 J**	**0.53 J**	**0.92 J**	**0.73 J**	**0.66 J**	**0.80 J**
Silver	mg/kg	**0.52**	**0.55 J**	**0.31 J**	**0.19 J**	**0.20 J**	**0.21 J**	**0.49 J**
Sodium	mg/kg	**97 J**	**110 J**	**130 J**	**120 J**	**130 J**	**120 J**	**110 J**
Thallium	mg/kg	**0.34**	**0.27**	**0.15 J**	**0.24**	**0.17 J**	**0.17 J**	**0.23**
Vanadium	mg/kg	**23**	**19**	**12**	**17**	**14**	**14**	**18**
Zinc	mg/kg	**110**	**97**	**69**	**75**	**59**	**59**	**89**
PCBs								
Aroclor-1248 (PCB-1248)	ug/kg	30 U	30 U	26 U	30 U	29 U	30 U	30 U
Aroclor-1254 (PCB-1254)	ug/kg	**70**	**110**	**360**	**51 J**	**63**	**53 J**	**300**
Pesticides								
4,4'-DDE	ug/kg	1.9 U	1.9 U	8.1 U	9.6 U	9.2 U	9.4 U	9.5 U
4,4'-DDT	ug/kg	1.4 U	**17 J**	6.1 U	7.2 U	6.9 U	7.0 U	7.1 U
alpha-Chlordane	ug/kg	1.9 U	**2.5 J**	**11 J**	9.5 U	9.1 U	9.3 U	9.5 U
Endosulfan sulfate	ug/kg	1.6 U	1.6 U	6.9 U	8.1 U	7.8 U	7.9 U	8.1 U
Endrin aldehyde	ug/kg	1.6 U	1.6 U	7.0 U	8.3 U	7.9 U	8.1 U	8.3 U
gamma-BHC (lindane)	ug/kg	2.2 U	2.2 U	9.6 U	11 U	11 U	11 U	11 U
gamma-Chlordane	ug/kg	1.5 U	**1.5 NJ**	6.6 U	7.8 U	7.5 U	7.6 U	7.8 U
Heptachlor epoxide	ug/kg	1.8 U	1.8 U	7.7 U	9.1 U	8.7 U	8.9 U	9.1 U
Toxaphene	ug/kg	31 U	31 U	130 U	160 U	150 U	160 U	160 U
Herbicides								
2,4,5-TP (Silvex)	ug/kg	17 U	16 U	15 U	17 U	17 U	16 U	17 U
General Chemistry								
Cyanide (total)	mg/kg	0.23 U	0.22 U	0.19 U	0.22 U	0.24 U	0.21 U	0.25 U

Notes
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.

Table 2

Summary of Detections
Floodplain Soil Samples - Adjacent to OU1
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-175**
Sample ID:		**S-38443-080818-JC-149**
Sample Date:		**8/8/2018**
Sample Depth:		**0.67-2.17 ft BGS**
Parameters	**Units**	
Volatiles		
1,4-Dichlorobenzene	ug/kg	0.94 U
Acetone	ug/kg	22 U
Methylene chloride	ug/kg	13 U
Toluene	ug/kg	0.83 U
Semi-Volatiles		
2-Methylnaphthalene	ug/kg	**11**
Acenaphthene	ug/kg	**4.5 J**
Acenaphthylene	ug/kg	**11**
Anthracene	ug/kg	**18**
Benzaldehyde	ug/kg	28 U
Benzo(a)anthracene	ug/kg	**100**
Benzo(a)pyrene	ug/kg	**130**
Benzo(b)fluoranthene	ug/kg	**190**
Benzo(g,h,i)perylene	ug/kg	**110**
Benzo(k)fluoranthene	ug/kg	**67**
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	**120**
Butyl benzylphthalate (BBP)	ug/kg	27 U
Carbazole	ug/kg	23 U
Chrysene	ug/kg	**140**
Dibenz(a,h)anthracene	ug/kg	**17**
Dibenzofuran	ug/kg	16 U
Di-n-butylphthalate (DBP)	ug/kg	27 U
Fluoranthene	ug/kg	**200**
Fluorene	ug/kg	**5.3 J**
Indeno(1,2,3-cd)pyrene	ug/kg	**90**
Naphthalene	ug/kg	37 U
Phenanthrene	ug/kg	**83**
Phenol	ug/kg	9.7 U
Pyrene	ug/kg	**190**
Metals		
Aluminum	mg/kg	**4300**
Antimony	mg/kg	**0.17 J**
Arsenic	mg/kg	**5.1**
Barium	mg/kg	**89**
Beryllium	mg/kg	**0.31**
Cadmium	mg/kg	**0.56**
Calcium	mg/kg	**100000**
Chromium	mg/kg	**12**
Chromium III (trivalent)	mg/kg	**12**
Chromium VI (hexavalent)	mg/kg	0.29 U
Cobalt	mg/kg	**3.6**
Copper	mg/kg	**16**
Iron	mg/kg	**9300**

Table 2

Summary of Detections
Floodplain Soil Samples - Adjacent to OU1
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-175**
Sample ID:		**S-38443-080818-JC-149**
Sample Date:		**8/8/2018**
Sample Depth:		**0.67-2.17 ft BGS**
Parameters	**Units**	
Lead	mg/kg	**19**
Magnesium	mg/kg	**22000**
Manganese	mg/kg	**360**
Mercury	mg/kg	**0.038 J**
Nickel	mg/kg	**10 J**
Potassium	mg/kg	**460 J**
Selenium	mg/kg	**0.59 J**
Silver	mg/kg	**0.18 J**
Sodium	mg/kg	**130 J**
Thallium	mg/kg	**0.13 J**
Vanadium	mg/kg	**12 J**
Zinc	mg/kg	**40 J**
PCBs		
Aroclor-1248 (PCB-1248)	ug/kg	29 U
Aroclor-1254 (PCB-1254)	ug/kg	**120**
Pesticides		
4,4'-DDE	ug/kg	9.2 U
4,4'-DDT	ug/kg	6.9 U
alpha-Chlordane	ug/kg	9.1 U
Endosulfan sulfate	ug/kg	7.8 U
Endrin aldehyde	ug/kg	8.0 U
gamma-BHC (lindane)	ug/kg	11 U
gamma-Chlordane	ug/kg	7.5 U
Heptachlor epoxide	ug/kg	8.8 U
Toxaphene	ug/kg	150 U
Herbicides		
2,4,5-TP (Silvex)	ug/kg	17 U
General Chemistry		
Cyanide (total)	mg/kg	0.23 U

Notes
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.

Table 3

Summary of Analytical Results
Floodplain Soil Samples - Upstream
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-201**	**SS-201**	**SS-202**	**SS-202**	**SS-203**	**SS-203**	**SS-204**
Sample ID:		**SS-38443-121018-JC-201**	**SS-38443-121018-JC-218**	**SS-38443-121018-JC-202**	**SS-38443-121018-JC-219**	**SS-38443-121018-JC-203**	**SS-38443-121018-JC-220**	**SS-38443-121018-JC-204**
Sample Date:		**12/10/2018**	**12/10/2018**	**12/10/2018**	**12/10/2018**	**12/10/2018**	**12/10/2018**	**12/10/2018**
Sample Depth:		**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/kg	0.72 U	0.74 U	1.1 U	0.87 U	0.98 U	0.91 U	0.99 U
1,1,2,2-Tetrachloroethane	ug/kg	1.3 U	1.3 U	1.9 U	1.5 U	1.7 U	1.6 U	1.7 U
1,1,2-Trichloroethane	ug/kg	1.0 U	1.0 U	1.5 U	1.2 U	1.3 U	1.3 U	1.4 U
1,1-Dichloroethane	ug/kg	0.61 U	0.62 U	0.92 U	0.73 U	0.83 U	0.77 U	0.84 U
1,1-Dichloroethene	ug/kg	0.79 U	0.81 U	1.2 U	0.96 U	1.1 U	1.0 U	1.1 U
1,2,4-Trichlorobenzene	ug/kg	0.50 U	0.51 U	0.76 U	0.61 U	0.68 U	0.63 U	0.69 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	3.2 U	3.2 U	4.8 U	3.8 U	4.3 U	4.0 U	4.4 U
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	0.68 U	0.69 U	1.0 U	0.82 U	0.92 U	0.85 U	0.93 U
1,2-Dichlorobenzene	ug/kg	0.98 U	1.0 U	1.5 U	1.2 U	1.3 U	1.2 U	1.3 U
1,2-Dichloroethane	ug/kg	0.68 U	0.69 U	1.0 U	0.82 U	0.92 U	0.85 U	0.93 U
1,2-Dichloropropane	ug/kg	0.75 U	0.76 U	1.1 U	0.90 U	1.0 U	0.94 U	1.0 U
1,3-Dichlorobenzene	ug/kg	0.72 U	0.73 U	1.1 U	0.86 U	0.97 U	0.90 U	0.99 U
1,4-Dichlorobenzene	ug/kg	0.78 U	0.79 U	1.2 U	0.93 U	1.1 U	0.97 U	1.1 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	3.1 U	3.2 U	4.7 U	3.8 U	4.2 U	3.9 U	4.3 U
2-Hexanone	ug/kg	3.6 U	3.7 U	5.4 U	4.3 U	4.9 U	4.5 U	4.9 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	3.3 U	3.3 U	4.9 U	3.9 U	4.4 U	4.1 U	4.5 U
Acetone	ug/kg	18 U	19 U	28 U	22 U	25 U	23 U	25 U
Benzene	ug/kg	0.61 U	0.63 U	0.93 U	0.74 U	0.83 U	0.77 U	0.84 U
Bromodichloromethane	ug/kg	0.60 U	0.61 U	0.90 U	0.72 U	0.81 U	0.75 U	0.82 U
Bromoform	ug/kg	2.1 U	2.2 U	3.2 U	2.5 U	2.9 U	2.7 U	2.9 U
Bromomethane (Methyl bromide)	ug/kg	0.87 U	0.89 U	1.3 U	1.0 U	1.2 U	1.1 U	1.2 U
Carbon disulfide	ug/kg	1.0 U	1.0 U	1.5 U	1.2 U	1.4 U	1.3 U	1.4 U
Carbon tetrachloride	ug/kg	2.9 U	2.9 U	4.3 U	3.4 U	3.9 U	3.6 U	3.9 U
Chlorobenzene	ug/kg	0.81 U	0.82 U	1.2 U	0.97 U	1.1 U	1.0 U	1.1 U
Chloroethane	ug/kg	1.1 U	1.1 U	1.6 U	1.3 U	1.5 U	1.3 U	1.5 U
Chloroform (Trichloromethane)	ug/kg	0.69 U	0.71 U	1.0 U	0.83 U	0.94 U	0.87 U	0.95 U
Chloromethane (Methyl chloride)	ug/kg	0.92 U	0.94 U	1.4 U	1.1 U	1.2 U	1.2 U	1.3 U
cis-1,2-Dichloroethene	ug/kg	0.57 U	0.58 U	0.86 U	0.69 U	0.78 U	0.72 U	0.79 U
cis-1,3-Dichloropropene	ug/kg	1.3 U	1.3 U	1.9 U	1.5 U	1.7 U	1.6 U	1.7 U
Cyclohexane	ug/kg	1.2 U	1.2 U	1.8 U	1.5 U	1.6 U	1.5 U	1.7 U
Dibromochloromethane	ug/kg	2.4 U	2.5 U	3.7 U	2.9 U	3.3 U	3.1 U	3.4 U
Dichlorodifluoromethane (CFC-12)	ug/kg	0.83 U	0.85 U	1.3 U	1.0 U	1.1 U	1.0 U	1.1 U
Ethylbenzene	ug/kg	0.92 U	0.94 U	1.4 U	1.1 U	1.2 U	1.2 U	1.3 U
Isopropyl benzene	ug/kg	0.73 U	0.75 U	1.1 U	0.88 U	0.99 U	0.92 U	1.0 U
Methyl acetate	ug/kg	3.0 U	3.1 U	4.5 U	3.6 U	4.1 U	3.8 U	4.1 U
Methyl cyclohexane	ug/kg	1.1 U	1.1 U	1.6 U	1.3 U	1.5 U	1.4 U	1.5 U
Methyl tert butyl ether (MTBE)	ug/kg	0.72 U	0.74 U	1.1 U	0.87 U	0.98 U	0.91 U	0.99 U
Methylene chloride	ug/kg	11 U	11 U	16 U	13 U	14 U	13 U	15 U
Styrene	ug/kg	1.0 U	1.0 U	1.5 U	1.2 U	1.4 U	1.3 U	1.4 U
Tetrachloroethene	ug/kg	0.64 U	0.66 U	0.97 U	0.77 U	0.87 U	0.81 U	0.88 U
Toluene	ug/kg	0.68 U	0.69 U	1.0 U	0.82 U	0.92 U	0.85 U	0.94 U
trans-1,2-Dichloroethene	ug/kg	0.41 U	0.42 U	0.62 U	0.49 U	0.55 U	0.51 U	0.56 U
trans-1,3-Dichloropropene	ug/kg	0.91 U	0.93 U	1.4 U	1.1 U	1.2 U	1.1 U	1.3 U

Table 3

Summary of Analytical Results
Floodplain Soil Samples - Upstream
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-201**	**SS-201**	**SS-202**	**SS-202**	**SS-203**	**SS-203**	**SS-204**
Sample ID:		**SS-38443-121018-JC-201**	**SS-38443-121018-JC-218**	**SS-38443-121018-JC-202**	**SS-38443-121018-JC-219**	**SS-38443-121018-JC-203**	**SS-38443-121018-JC-220**	**SS-38443-121018-JC-204**
Sample Date:		**12/10/2018**	**12/10/2018**	**12/10/2018**	**12/10/2018**	**12/10/2018**	**12/10/2018**	**12/10/2018**
Sample Depth:		**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**
Parameters	**Units**							
Trichloroethene	ug/kg	0.56 U	0.57 U	0.84 U	0.67 U	0.75 U	0.70 U	0.77 U
Trichlorofluoromethane (CFC-11)	ug/kg	0.95 U	0.97 U	1.4 U	1.1 U	1.3 U	1.2 U	1.3 U
Trifluorotrichloroethane (CFC-113)	ug/kg	1.1 U	1.2 U	1.7 U	1.4 U	1.5 U	1.4 U	1.6 U
Vinyl chloride	ug/kg	0.74 U	0.75 U	1.1 U	0.89 U	1.0 U	0.92 U	1.0 U
Xylenes (total)	ug/kg	1.4 U	1.4 U	2.1 U	1.7 U	1.9 U	1.8 U	1.9 U
Semi-Volatiles								
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	11 U	11 U	13 U	13 U	13 U	13 U	13 U
2,4,5-Trichlorophenol	ug/kg	79 U	78 U	90 U	87 U	92 U	89 U	91 U
2,4,6-Trichlorophenol	ug/kg	73 U	73 U	83 U	81 U	86 U	82 U	84 U
2,4-Dichlorophenol	ug/kg	50 U	50 U	57 U	56 U	59 U	57 U	58 U
2,4-Dimethylphenol	ug/kg	46 U	45 U	52 U	51 U	53 U	52 U	53 U
2,4-Dinitrophenol	ug/kg	160 U	160 U	180 U	180 U	190 U	180 U	190 U
2,4-Dinitrotoluene	ug/kg	71 U	70 U	81 U	78 U	83 U	80 U	81 U
2,6-Dinitrotoluene	ug/kg	64 U	63 U	73 U	71 U	75 U	72 U	74 U
2-Chloronaphthalene	ug/kg	16 U	16 U	18 U	18 U	19 U	18 U	18 U
2-Chlorophenol	ug/kg	11 U	11 U	13 U	13 U	13 U	13 U	13 U
2-Methylnaphthalene	ug/kg	7.9 J	15 J	16 J	27	10 J	16 J	9.6 J
2-Methylphenol	ug/kg	36 U	35 U	40 U	39 U	41 U	40 U	41 U
2-Nitroaniline	ug/kg	46 U	45 U	52 U	51 U	53 U	52 U	53 U
2-Nitrophenol	ug/kg	15 U	15 U	17 U	16 U	17 U	17 U	17 U
3&4-Methylphenol	ug/kg	33 U	33 U	38 U	37 U	39 U	37 U	38 U
3,3'-Dichlorobenzidine	ug/kg	49 U	49 U	56 U	54 U	57 U	55 U	56 U
3-Nitroaniline	ug/kg	56 U	56 U	64 U	62 U	65 U	63 U	64 U
4,6-Dinitro-2-methylphenol	ug/kg	92 U	91 U	100 U	100 U	110 U	100 U	110 U
4-Bromophenyl phenyl ether	ug/kg	16 U	16 U	18 U	18 U	19 U	18 U	18 U
4-Chloro-3-methylphenol	ug/kg	52 U	51 U	59 U	57 U	60 U	58 U	59 U
4-Chloroaniline	ug/kg	34 U	34 U	39 U	38 U	40 U	39 U	39 U
4-Chlorophenyl phenyl ether	ug/kg	16 U	16 U	18 U	18 U	19 U	18 U	18 U
4-Nitroaniline	ug/kg	69 U	68 U	78 U	76 U	80 U	77 U	79 U
4-Nitrophenol	ug/kg	110 U	110 U	120 U	120 U	130 U	120 U	120 U
Acenaphthene	ug/kg	22	38	19 J	29	14 J	14 J	9.6 J
Acenaphthylene	ug/kg	16 J	23	36	48	25	28	25
Acetophenone	ug/kg	13 U	12 U	14 U	14 U	15 U	14 U	14 U
Anthracene	ug/kg	71	130	65	79	40	39	36
Atrazine	ug/kg	41 U	41 U	47 U	45 U	48 U	46 U	47 U
Benzaldehyde	ug/kg	26 U	26 U	34 J	29 U	31 U	30 U	30 U
Benzo(a)anthracene	ug/kg	280	500	420	440	270	280	270
Benzo(a)pyrene	ug/kg	280	490	540	540	350	330	310
Benzo(b)fluoranthene	ug/kg	480	720	990	880	540	560	510
Benzo(g,h,i)perylene	ug/kg	190	350	300	300	270	310	240
Benzo(k)fluoranthene	ug/kg	170	340	380	380	180	140	190
Biphenyl (1,1-Biphenyl)	ug/kg	19 U	19 U	22 U	21 U	23 U	22 U	22 U
bis(2-Chloroethoxy)methane	ug/kg	14 U	14 U	16 U	15 U	16 U	15 U	16 U

Table 3

Summary of Analytical Results
Floodplain Soil Samples - Upstream
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-201**	**SS-201**	**SS-202**	**SS-202**	**SS-203**	**SS-203**	**SS-204**
Sample ID:		**SS-38443-121018-JC-201**	**SS-38443-121018-JC-218**	**SS-38443-121018-JC-202**	**SS-38443-121018-JC-219**	**SS-38443-121018-JC-203**	**SS-38443-121018-JC-220**	**SS-38443-121018-JC-204**
Sample Date:		**12/10/2018**	**12/10/2018**	**12/10/2018**	**12/10/2018**	**12/10/2018**	**12/10/2018**	**12/10/2018**
Sample Depth:		**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**
Parameters	**Units**							
bis(2-Chloroethyl)ether	ug/kg	14 U	14 U	16 U	15 U	16 U	15 U	16 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	240	93 U	160	140	84 J	150	78 J
Butyl benzylphthalate (BBP)	ug/kg	25 U	25 U	29 U	28 U	29 U	28 U	29 U
Caprolactam	ug/kg	86 U	85 U	98 U	95 U	100 U	97 U	99 U
Carbazole	ug/kg	39 J	84	57 J	54 J	33 J	29 J	30 J
Chrysene	ug/kg	330	590	600	560	400	360	360
Dibenz(a,h)anthracene	ug/kg	7.9 U	7.8 U	9.0 U	8.7 U	66	58	64
Dibenzofuran	ug/kg	15 U	22 J	22 J	16 J	17 U	17 U	17 U
Diethyl phthalate	ug/kg	36 U	35 U	40 U	39 U	41 U	40 U	41 U
Dimethyl phthalate	ug/kg	16 U	16 U	18 U	18 U	19 U	18 U	18 U
Di-n-butylphthalate (DBP)	ug/kg	25 U	25 U	29 U	28 U	29 U	28 J	29 U
Di-n-octyl phthalate (DnOP)	ug/kg	32 U	32 U	36 U	35 U	37 U	36 U	37 U
Fluoranthene	ug/kg	760	1300	1300	1100	640	560	570
Fluorene	ug/kg	21	37	20	26	12 J	14 J	10 J
Hexachlorobenzene	ug/kg	3.3 U	3.2 U	3.7 U	3.6 U	3.8 U	3.7 U	3.7 U
Hexachlorobutadiene	ug/kg	14 U	14 U	16 U	15 U	16 U	15 U	16 U
Hexachlorocyclopentadiene	ug/kg	71 U	R	81 U	78 U	83 U	R	81 U
Hexachloroethane	ug/kg	10 U	10 U	12 U	11 U	12 U	12 U	12 U
Indeno(1,2,3-cd)pyrene	ug/kg	170	290	270	270	240	250	220
Isophorone	ug/kg	14 U	14 U	16 U	15 U	16 U	15 U	16 U
Naphthalene	ug/kg	2.8 U	11 J	16 J	22	11 J	16 J	9.3 J
Nitrobenzene	ug/kg	15 U	15 U	17 U	16 U	17 U	17 U	17 U
N-Nitrosodi-n-propylamine	ug/kg	13 U	12 U	14 U	14 U	15 U	14 U	14 U
N-Nitrosodiphenylamine	ug/kg	14 U	14 U	16 U	15 U	16 U	15 U	16 U
Pentachlorophenol	ug/kg	66 U	66 U	75 U	73 U	77 U	75 U	76 UJ
Phenanthrene	ug/kg	340	610	350	400	210	200	190
Phenol	ug/kg	9.2 U	9.1 U	10 U	10 U	11 U	10 U	11 U
Pyrene	ug/kg	490	820	780	630	480	470	480
Metals								
Aluminum	mg/kg	6400	7200	9600	11000	9800	11000	10000
Antimony	mg/kg	0.19 J	0.21 J	0.26 J	0.29 J	0.26 J	0.31 J	0.25 J
Arsenic	mg/kg	6.7	7.1	8.2	9.5	8.6	10	8.5
Barium	mg/kg	73	75	130	140	130	150	130
Beryllium	mg/kg	0.32	0.37	0.51	0.57	0.51	0.74	0.51
Cadmium	mg/kg	0.45	0.52	0.70	1.4	0.69	1.7	0.64
Calcium	mg/kg	82000	74000	63000	59000	66000	57000	65000
Chromium	mg/kg	15	16	20	37	21	40	20
Cobalt	mg/kg	5.0	5.1	7.1	7.9	7.4	8.4	7.4
Copper	mg/kg	20	21	27	39	27	44	26
Iron	mg/kg	13000	14000	19000	20000	19000	21000	19000
Lead	mg/kg	29	39	34	73	34	75	32
Magnesium	mg/kg	31000	32000	22000	22000	24000	22000	24000
Manganese	mg/kg	350	370	540	560	580	590	560

Table 3

Summary of Analytical Results
Floodplain Soil Samples - Upstream
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-201**	**SS-201**	**SS-202**	**SS-202**	**SS-203**	**SS-203**	**SS-204**
Sample ID:		**SS-38443-121018-JC-201**	**SS-38443-121018-JC-218**	**SS-38443-121018-JC-202**	**SS-38443-121018-JC-219**	**SS-38443-121018-JC-203**	**SS-38443-121018-JC-220**	**SS-38443-121018-JC-204**
Sample Date:		**12/10/2018**	**12/10/2018**	**12/10/2018**	**12/10/2018**	**12/10/2018**	**12/10/2018**	**12/10/2018**
Sample Depth:		**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**
Parameters	**Units**							
Mercury	mg/kg	0.058 J	0.057 J	0.12	0.14 J	0.090 J	0.14	0.086 J
Nickel	mg/kg	15	16	21	28	21	29	21
Potassium	mg/kg	870	1000	1500	1400	1500	1300	1400
Selenium	mg/kg	0.38 J	0.34 J	0.68 J	0.70 J	0.70 J	0.81 J	0.71 J
Silver	mg/kg	0.23	0.28	0.33	0.80	0.37	0.92	0.33
Sodium	mg/kg	110 J	100 J	92 J	94 J	93 J	91 J	97 J
Thallium	mg/kg	0.19	0.21	0.31	0.35	0.32	0.37	0.33
Vanadium	mg/kg	17	18	22	25	22	25	23
Zinc	mg/kg	68	76	110	130	110	140	100
PCBs								
Aroclor-1016 (PCB-1016)	ug/kg	25 U	24 U	28 U	27 U	30 U	280 U	29 U
Aroclor-1221 (PCB-1221)	ug/kg	27 U	27 U	30 U	29 U	33 U	300 U	31 U
Aroclor-1232 (PCB-1232)	ug/kg	26 U	25 U	29 U	28 U	32 U	290 U	30 U
Aroclor-1242 (PCB-1242)	ug/kg	21 U	21 U	24 U	23 U	26 U	240 U	25 U
Aroclor-1248 (PCB-1248)	ug/kg	27 U	27 U	30 U	29 U	33 U	300 U	31 U
Aroclor-1254 (PCB-1254)	ug/kg	72	93 J	210	330	150	2800	160 J
Aroclor-1260 (PCB-1260)	ug/kg	25 U	24 U	28 U	27 U	30 U	280 U	29 U
Pesticides								
4,4'-DDD	ug/kg	1.7 U	1.7 U	9.6 U	9.4 U	1.9 U	1.9 U	4.1 NJ
4,4'-DDE	ug/kg	1.8 U	2.0 J	9.8 U	9.6 U	4.5 J	1.9 U	2.0 U
4,4'-DDT	ug/kg	2.0 J	1.9 NJ	7.3 U	7.2 U	3.6 NJ	1.4 U	2.7 NJ
Aldrin	ug/kg	0.91 U	0.87 U	5.0 U	4.9 U	0.99 U	0.99 U	1.0 U
alpha-BHC	ug/kg	1.1 U	1.0 U	5.9 U	5.8 U	1.2 U	1.2 U	1.2 U
alpha-Chlordane	ug/kg	1.8 U	1.7 U	9.7 U	9.5 U	1.9 U	1.9 U	2.0 U
beta-BHC	ug/kg	2.0 U	1.9 U	11 U	11 U	2.2 U	2.2 U	2.3 U
delta-BHC	ug/kg	2.0 U	1.9 U	11 U	11 U	2.2 U	2.2 U	2.2 U
Dieldrin	ug/kg	1.3 U	1.2 U	7.1 U	7.0 U	1.4 U	1.4 U	1.5 U
Endosulfan I	ug/kg	1.4 U	1.4 U	7.8 U	7.6 U	1.5 U	1.5 U	1.6 U
Endosulfan II	ug/kg	1.7 U	1.7 U	9.6 U	9.4 U	1.9 U	1.9 U	2.0 U
Endosulfan sulfate	ug/kg	1.5 U	1.4 U	8.3 U	8.1 U	1.6 U	1.6 U	1.7 U
Endrin	ug/kg	2.2 U	2.1 U	12 U	12 U	2.4 U	2.4 U	2.5 U
Endrin aldehyde	ug/kg	1.5 U	1.5 U	8.5 U	8.3 U	1.7 U	2.0 NJ	1.7 U
Endrin ketone	ug/kg	1.0 U	1.0 U	5.8 U	5.7 U	1.1 U	1.1 U	1.2 U
gamma-BHC (lindane)	ug/kg	2.1 U	2.0 U	12 U	11 U	2.3 U	2.3 U	2.4 U
gamma-Chlordane	ug/kg	1.5 U	1.4 U	8.0 U	7.8 U	1.6 U	1.6 U	1.6 U
Heptachlor	ug/kg	1.9 U	1.8 U	10 U	10 U	2.0 U	2.0 U	2.1 U
Heptachlor epoxide	ug/kg	1.7 U	1.6 U	9.3 U	9.2 U	1.9 U	1.8 U	1.9 U
Methoxychlor	ug/kg	7.7 U	7.4 U	43 U	42 U	8.4 U	8.4 U	8.7 U
Toxaphene	ug/kg	29 U	28 U	160 U	160 U	32 U	32 U	33 U

Table 3

Summary of Analytical Results
Floodplain Soil Samples - Upstream
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-201**	**SS-201**	**SS-202**	**SS-202**	**SS-203**	**SS-203**	**SS-204**
Sample ID:		**SS-38443-121018-JC-201**	**SS-38443-121018-JC-218**	**SS-38443-121018-JC-202**	**SS-38443-121018-JC-219**	**SS-38443-121018-JC-203**	**SS-38443-121018-JC-220**	**SS-38443-121018-JC-204**
Sample Date:		**12/10/2018**	**12/10/2018**	**12/10/2018**	**12/10/2018**	**12/10/2018**	**12/10/2018**	**12/10/2018**
Sample Depth:		**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**
Parameters	**Units**							
Herbicides								
2,4,5-T	ug/kg	14 U	14 U	17 U	16 U	17 U	17 U	17 U
2,4,5-TP (Silvex)	ug/kg	15 U	16 U	18 U	17 U	19 U	18 U	19 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	54 U	54 U	63 U	59 U	65 U	64 U	66 U
General Chemistry								
Cyanide (total)	mg/kg	0.24 U	0.20 U	0.26 U	0.24 U	0.23 U	0.23 U	0.29 J

Notes
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.

Table 3

Summary of Analytical Results
Floodplain Soil Samples - Upstream
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-204**	**SS-204**	**SS-205**	**SS-205**	**SS-206**	**SS-206**	**SS-207**
Sample ID:		**SS-38443-121018-JC-221**	**SS-38443-121018-JC-200**	**SS-38443-121018-JC-205**	**SS-38443-121018-JC-222**	**SS-38443-121018-JC-206**	**SS-38443-121018-JC-223**	**SS-38443-121018-JC-207**
Sample Date:		**12/10/2018**	**12/10/2018**	**12/10/2018**	**12/10/2018**	**12/10/2018**	**12/10/2018**	**12/10/2018**
Sample Depth:		**0.5-2 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**
			Duplicate					
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/kg	0.89 U	0.89 U	0.98 U	0.90 U	0.85 U	0.86 U	0.90 U
1,1,2,2-Tetrachloroethane	ug/kg	1.5 U	R	R	1.6 U	1.5 U	1.5 U	1.6 U
1,1,2-Trichloroethane	ug/kg	1.2 U	1.2 U	1.4 U	1.2 U	1.2 U	1.2 U	1.2 U
1,1-Dichloroethane	ug/kg	0.75 U	0.75 U	0.83 U	0.76 U	0.72 U	0.73 U	0.76 U
1,1-Dichloroethene	ug/kg	0.97 U	0.98 U	1.1 U	1.0 U	0.94 U	0.95 U	0.99 U
1,2,4-Trichlorobenzene	ug/kg	0.62 U	R	R	0.63 U	0.59 U	0.60 U	0.62 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	3.9 U	R	R	4.0 U	3.7 U	3.8 U	3.9 U
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	0.83 U	0.84 U	0.92 U	0.85 U	0.80 U	0.81 U	0.84 U
1,2-Dichlorobenzene	ug/kg	1.2 U	R	R	1.2 U	1.2 U	1.2 U	1.2 U
1,2-Dichloroethane	ug/kg	0.83 U	0.84 U	0.92 U	0.85 U	0.80 U	0.81 U	0.84 U
1,2-Dichloropropane	ug/kg	0.92 U	0.92 U	1.0 U	0.94 U	0.88 U	0.89 U	0.93 U
1,3-Dichlorobenzene	ug/kg	0.88 U	R	R	0.90 U	0.85 U	0.86 U	0.89 U
1,4-Dichlorobenzene	ug/kg	0.95 U	R	R	0.97 U	0.92 U	0.93 U	0.96 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	3.8 U	3.9 U	4.2 U	3.9 U	3.7 U	3.7 U	3.9 U
2-Hexanone	ug/kg	4.4 U	4.4 U	4.9 U	4.5 U	4.2 U	4.3 U	4.5 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	4.0 U	4.0 U	4.4 U	4.1 U	3.9 U	3.9 U	4.1 U
Acetone	ug/kg	23 U	23 U	25 U	23 U	22 U	22 U	23 U
Benzene	ug/kg	0.75 U	0.76 U	0.83 U	0.77 U	0.73 U	0.73 U	0.76 U
Bromodichloromethane	ug/kg	0.73 U	0.74 U	0.81 U	0.75 U	0.71 U	0.71 U	0.74 U
Bromoform	ug/kg	2.6 U	2.6 U	2.9 U	2.6 U	2.5 U	2.5 U	2.6 U
Bromomethane (Methyl bromide)	ug/kg	1.1 U	1.1 U	1.2 U	1.1 U	1.0 U	1.0 U	1.1 U
Carbon disulfide	ug/kg	1.3 U	1.3 U	1.4 U	1.3 U	1.2 U	1.2 U	1.3 U
Carbon tetrachloride	ug/kg	3.5 U	3.5 U	3.9 U	3.6 U	3.4 U	3.4 U	3.6 U
Chlorobenzene	ug/kg	0.99 U	0.99 U	1.1 U	1.0 U	0.95 U	0.96 U	1.0 U
Chloroethane	ug/kg	1.3 U	1.3 U	1.5 U	1.3 U	1.3 U	1.3 U	1.3 U
Chloroform (Trichloromethane)	ug/kg	0.85 U	0.86 U	0.94 U	0.87 U	0.82 U	0.83 U	0.86 U
Chloromethane (Methyl chloride)	ug/kg	1.1 U	1.1 U	1.2 U	1.1 U	1.1 U	1.1 U	1.1 U
cis-1,2-Dichloroethene	ug/kg	0.70 U	0.71 U	0.78 U	0.72 U	0.68 U	0.68 U	0.71 U
cis-1,3-Dichloropropene	ug/kg	1.6 U	1.6 U	1.7 U	1.6 U	1.5 U	1.5 U	1.6 U
Cyclohexane	ug/kg	1.5 U	1.5 U	1.6 U	1.5 U	1.4 U	1.4 U	1.5 U
Dibromochloromethane	ug/kg	3.0 U	3.0 U	3.3 U	3.1 U	2.9 U	2.9 U	3.0 U
Dichlorodifluoromethane (CFC-12)	ug/kg	1.0 U	1.0 U	1.1 U	1.0 U	0.98 U	0.99 U	1.0 U
Ethylbenzene	ug/kg	1.1 U	1.1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.1 U
Isopropyl benzene	ug/kg	0.90 U	0.90 U	0.99 U	0.92 U	0.87 U	0.87 U	0.91 U
Methyl acetate	ug/kg	3.7 U	3.7 U	4.1 U	3.8 U	3.5 U	3.6 U	3.7 U
Methyl cyclohexane	ug/kg	1.3 U	1.3 U	1.5 U	1.4 U	1.3 U	1.3 U	1.3 U
Methyl tert butyl ether (MTBE)	ug/kg	0.89 U	0.89 U	0.98 U	0.90 U	0.85 U	0.86 U	0.90 U
Methylene chloride	ug/kg	13 U	13 U	14 U	13 U	12 U	13 U	13 U
Styrene	ug/kg	1.3 U	1.3 U	1.4 U	1.3 U	1.2 U	1.2 U	1.3 U
Tetrachloroethene	ug/kg	0.79 U	0.79 U	0.87 U	0.80 U	0.76 U	0.77 U	0.80 U
Toluene	ug/kg	0.83 U	0.84 U	0.92 U	0.85 U	0.80 U	0.81 U	0.84 U
trans-1,2-Dichloroethene	ug/kg	0.50 U	0.50 U	0.55 U	0.51 U	0.48 U	0.49 U	0.51 U
trans-1,3-Dichloropropene	ug/kg	1.1 U	1.1 U	1.2 U	1.1 U	1.1 U	1.1 U	1.1 U

Table 3

Summary of Analytical Results
Floodplain Soil Samples - Upstream
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-204**	**SS-204**	**SS-205**	**SS-205**	**SS-206**	**SS-206**	**SS-207**
Sample ID:		**SS-38443-121018-JC-221**	**SS-38443-121018-JC-200**	**SS-38443-121018-JC-205**	**SS-38443-121018-JC-222**	**SS-38443-121018-JC-206**	**SS-38443-121018-JC-223**	**SS-38443-121018-JC-207**
Sample Date:		**12/10/2018**	**12/10/2018**	**12/10/2018**	**12/10/2018**	**12/10/2018**	**12/10/2018**	**12/10/2018**
Sample Depth:		**0.5-2 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**
			Duplicate					
Parameters	**Units**							
Trichloroethene	ug/kg	0.68 U	0.69 U	0.76 U	0.70 U	0.66 U	0.66 U	0.69 U
Trichlorofluoromethane (CFC-11)	ug/kg	1.2 U	1.2 U	1.3 U	1.2 U	1.1 U	1.1 U	1.2 U
Trifluorotrichloroethane (CFC-113)	ug/kg	1.4 U	1.4 U	1.5 U	1.4 U	1.3 U	1.3 U	1.4 U
Vinyl chloride	ug/kg	0.90 U	0.91 U	1.0 U	0.92 U	0.87 U	0.88 U	0.91 U
Xylenes (total)	ug/kg	1.7 U	1.7 U	1.9 U	1.7 U	1.6 U	1.7 U	1.7 U
Semi-Volatiles								
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	13 U	13 U	14 U	13 U	13 U	12 U	13 U
2,4,5-Trichlorophenol	ug/kg	89 U	90 U	96 U	88 U	87 U	86 U	91 U
2,4,6-Trichlorophenol	ug/kg	82 U	83 U	89 U	82 U	80 U	80 U	85 U
2,4-Dichlorophenol	ug/kg	57 U	57 U	61 U	56 U	55 U	55 U	58 U
2,4-Dimethylphenol	ug/kg	51 U	52 U	56 U	51 U	50 U	50 U	53 U
2,4-Dinitrophenol	ug/kg	180 U	180 U	200 U	180 U	180 U	180 U	190 U
2,4-Dinitrotoluene	ug/kg	80 U	81 U	86 U	79 U	78 U	77 U	82 U
2,6-Dinitrotoluene	ug/kg	72 U	73 U	78 U	72 U	70 U	70 U	74 U
2-Chloronaphthalene	ug/kg	18 U	18 U	20 U	18 U	18 U	17 U	19 U
2-Chlorophenol	ug/kg	13 U	13 U	14 U	13 U	13 U	12 U	13 U
2-Methylnaphthalene	ug/kg	12 J	14 J	11 J	16 J	4.3 J	2.4 U	10 J
2-Methylphenol	ug/kg	40 U	40 U	43 U	40 U	39 U	39 U	41 U
2-Nitroaniline	ug/kg	51 U	52 U	56 U	51 U	50 U	50 U	53 U
2-Nitrophenol	ug/kg	17 U	17 U	18 U	17 U	16 U	16 U	17 U
3&4-Methylphenol	ug/kg	37 U	38 U	40 U	37 U	36 U	36 U	38 U
3,3'-Dichlorobenzidine	ug/kg	55 U	56 U	60 U	55 U	54 U	54 U	57 U
3-Nitroaniline	ug/kg	63 U	64 U	68 U	63 U	61 U	61 U	65 U
4,6-Dinitro-2-methylphenol	ug/kg	100 U	100 U	110 U	100 U	100 U	100 U	110 U
4-Bromophenyl phenyl ether	ug/kg	18 U	18 U	20 U	18 U	18 U	17 U	19 U
4-Chloro-3-methylphenol	ug/kg	58 U	58 U	63 U	58 U	56 U	56 U	60 U
4-Chloroaniline	ug/kg	39 U	39 U	42 U	38 U	38 U	37 U	40 U
4-Chlorophenyl phenyl ether	ug/kg	18 U	18 U	20 U	18 U	18 U	17 U	19 U
4-Nitroaniline	ug/kg	77 U	78 U	84 U	77 U	75 U	75 U	80 U
4-Nitrophenol	ug/kg	120 U	120 U	130 U	120 U	120 U	120 U	120 U
Acenaphthene	ug/kg	13 J	14 J	14 J	15 J	3.6 U	3.6 U	15 J
Acenaphthylene	ug/kg	27	36	26	28	6.8 J	6.2 J	32
Acetophenone	ug/kg	14 U	14 U	15 U	14 U	14 U	14 U	15 U
Anthracene	ug/kg	36	41	44	42	7.7 J	6.9 J	49
Atrazine	ug/kg	46 U	47 U	50 U	46 U	45 U	45 U	48 U
Benzaldehyde	ug/kg	30 U	30 U	85 J	29 U	29 U	29 U	46 J
Benzo(a)anthracene	ug/kg	260	290	330	290	52	53	370
Benzo(a)pyrene	ug/kg	300	340	390	320	63	67	440
Benzo(b)fluoranthene	ug/kg	500	560	620	510	110	110	740
Benzo(g,h,i)perylene	ug/kg	220	260	310	240	54	59	360
Benzo(k)fluoranthene	ug/kg	160	180	240	200	30	36	260
Biphenyl (1,1-Biphenyl)	ug/kg	22 U	22 U	24 U	22 U	21 U	21 U	23 U
bis(2-Chloroethoxy)methane	ug/kg	15 U	16 U	17 U	15 U	15 U	15 U	16 U

Table 3

Summary of Analytical Results
Floodplain Soil Samples - Upstream
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-204**	**SS-204**	**SS-205**	**SS-205**	**SS-206**	**SS-206**	**SS-207**
Sample ID:		**SS-38443-121018-JC-221**	**SS-38443-121018-JC-200**	**SS-38443-121018-JC-205**	**SS-38443-121018-JC-222**	**SS-38443-121018-JC-206**	**SS-38443-121018-JC-223**	**SS-38443-121018-JC-207**
Sample Date:		**12/10/2018**	**12/10/2018**	**12/10/2018**	**12/10/2018**	**12/10/2018**	**12/10/2018**	**12/10/2018**
Sample Depth:		**0.5-2 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**
			Duplicate					
Parameters	**Units**							
bis(2-Chloroethyl)ether	ug/kg	15 U	16 U	17 U	15 U	15 U	15 U	16 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	93	96	80 J	100	88	64 U	76 J
Butyl benzylphthalate (BBP)	ug/kg	30 J	29 U	31 U	38 J	28 U	27 U	29 U
Caprolactam	ug/kg	96 U	97 U	100 U	96 U	94 U	93 U	99 U
Carbazole	ug/kg	31 J	35 J	41 J	34 J	24 U	24 U	42 J
Chrysene	ug/kg	340	370	450	350	71	76	520
Dibenz(a,h)anthracene	ug/kg	68	76	82	66	20	20	95
Dibenzofuran	ug/kg	17 U	17 U	18 U	17 U	16 U	16 U	17 U
Diethyl phthalate	ug/kg	40 U	40 U	43 U	40 U	39 U	39 U	41 U
Dimethyl phthalate	ug/kg	18 U	18 U	20 U	18 U	18 U	17 U	19 U
Di-n-butylphthalate (DBP)	ug/kg	28 J	29 U	31 U	30 J	28 J	27 U	30 J
Di-n-octyl phthalate (DnOP)	ug/kg	36 U	36 U	39 U	36 U	35 U	35 U	37 U
Fluoranthene	ug/kg	550	590	770	540	120	150	890
Fluorene	ug/kg	12 J	14 J	15 J	15 J	3.4 U	3.4 U	16 J
Hexachlorobenzene	ug/kg	3.7 U	3.7 U	4.0 U	3.6 U	3.6 U	3.6 U	3.8 U
Hexachlorobutadiene	ug/kg	15 U	16 U	17 U	15 U	15 U	15 U	16 U
Hexachlorocyclopentadiene	ug/kg	80 U	81 U	86 U	79 U	78 U	77 U	R
Hexachloroethane	ug/kg	12 U	12 U	13 U	12 U	11 U	11 U	12 U
Indeno(1,2,3-cd)pyrene	ug/kg	200	250	280	220	48	54	350
Isophorone	ug/kg	15 U	16 U	17 U	15 U	15 U	15 U	16 U
Naphthalene	ug/kg	11 J	11 J	9.3 J	13 J	3.0 U	3.0 U	12 J
Nitrobenzene	ug/kg	17 U	17 U	18 U	17 U	16 U	16 U	17 U
N-Nitrosodi-n-propylamine	ug/kg	14 U	14 U	15 U	14 U	14 U	14 U	15 U
N-Nitrosodiphenylamine	ug/kg	15 U	16 U	17 U	15 U	15 U	15 U	16 U
Pentachlorophenol	ug/kg	74 UJ	75 UJ	81 UJ	74 UJ	73 UJ	72 UJ	R
Phenanthrene	ug/kg	190	200	260	230	43	53	280
Phenol	ug/kg	10 U	10 U	11 U	10 U	10 U	10 U	11 U
Pyrene	ug/kg	460	520	630	510	98	140	730
Metals								
Aluminum	mg/kg	12000	12000	10000	11000	11000	13000	9000
Antimony	mg/kg	0.31 J	0.30 J	0.27 J	0.31 J	0.19 J	0.22 J	0.31 J
Arsenic	mg/kg	9.8	10	8.3	9.8	7.6	9.7	8.1
Barium	mg/kg	150	150	130	140	150	140	130
Beryllium	mg/kg	0.61	0.63	0.54	0.62	0.65	0.77	0.51
Cadmium	mg/kg	1.0	1.1	0.66	1.5	0.33	0.35	0.63
Calcium	mg/kg	58000	57000	69000	62000	31000	20000	69000
Chromium	mg/kg	28	30	20	36	15	18	19
Cobalt	mg/kg	8.3	8.5	7.3	8.0	13	12	7.0
Copper	mg/kg	33	34	27	41	15	17	26
Iron	mg/kg	22000	22000	19000	21000	19000	23000	18000
Lead	mg/kg	47	52	31	64	27	26	30
Magnesium	mg/kg	21000	21000	25000	23000	12000	8900	24000
Manganese	mg/kg	590	590	580	560	1000	1000	550

Table 3

Summary of Analytical Results
Floodplain Soil Samples - Upstream
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-204**	**SS-204**	**SS-205**	**SS-205**	**SS-206**	**SS-206**	**SS-207**
Sample ID:		**SS-38443-121018-JC-221**	**SS-38443-121018-JC-200**	**SS-38443-121018-JC-205**	**SS-38443-121018-JC-222**	**SS-38443-121018-JC-206**	**SS-38443-121018-JC-223**	**SS-38443-121018-JC-207**
Sample Date:		**12/10/2018**	**12/10/2018**	**12/10/2018**	**12/10/2018**	**12/10/2018**	**12/10/2018**	**12/10/2018**
Sample Depth:		**0.5-2 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**
			Duplicate					
Parameters	**Units**							
Mercury	mg/kg	0.11 J	0.12 J	0.11 J	0.16	0.043 J	0.041 J	0.078 J
Nickel	mg/kg	26	28	21	27	17	19	20
Potassium	mg/kg	1500	1500	1600	1500	1200	1300	1400
Selenium	mg/kg	0.74 J	0.76 J	0.73 J	0.74 J	0.55 J	0.50 J	0.70 J
Silver	mg/kg	0.65	0.70	0.29	0.86	0.060 J	0.063 J	0.29
Sodium	mg/kg	96 J	100 J	100 J	100 J	61 J	59 U	98 J
Thallium	mg/kg	0.38	0.38	0.32	0.37	0.19 J	0.20 J	0.29
Vanadium	mg/kg	27	27	24	26	25	30	21
Zinc	mg/kg	120	130	110	140	60	67	100
PCBs								
Aroclor-1016 (PCB-1016)	ug/kg	28 U	28 U	30 U	130 U	27 U	27 U	29 U
Aroclor-1221 (PCB-1221)	ug/kg	31 U	30 U	33 U	150 U	29 U	30 U	32 U
Aroclor-1232 (PCB-1232)	ug/kg	30 U	29 U	32 U	140 U	28 U	29 U	30 U
Aroclor-1242 (PCB-1242)	ug/kg	24 U	24 U	26 U	120 U	23 U	24 U	25 U
Aroclor-1248 (PCB-1248)	ug/kg	31 U	30 U	33 U	150 U	29 U	30 U	32 U
Aroclor-1254 (PCB-1254)	ug/kg	210	200	160 J	3300	28 U	29 U	110
Aroclor-1260 (PCB-1260)	ug/kg	28 U	28 U	30 U	130 U	27 U	27 U	29 U
Pesticides								
4,4'-DDD	ug/kg	9.6 U	9.3 U	10 U	19 U	1.8 U	1.9 U	9.8 U
4,4'-DDE	ug/kg	9.8 U	9.5 U	11 U	19 U	1.9 U	1.9 U	10 U
4,4'-DDT	ug/kg	7.3 U	7.1 U	7.9 U	14 U	1.4 U	1.4 U	7.5 U
Aldrin	ug/kg	5.0 U	4.8 U	5.4 U	9.7 U	0.95 U	0.96 U	5.1 U
alpha-BHC	ug/kg	5.9 U	5.7 U	6.4 U	11 U	1.1 U	1.1 U	6.0 U
alpha-Chlordane	ug/kg	9.7 U	9.4 U	10 U	19 U	1.9 U	1.9 U	9.9 U
beta-BHC	ug/kg	11 U	11 U	12 U	22 U	2.1 U	2.2 U	11 U
delta-BHC	ug/kg	11 U	11 U	12 U	21 U	2.1 U	2.1 U	11 U
Dieldrin	ug/kg	7.1 U	6.9 U	7.7 U	14 U	1.4 U	1.4 U	7.3 U
Endosulfan I	ug/kg	7.8 U	7.5 U	8.4 U	15 U	1.5 U	1.5 U	7.9 U
Endosulfan II	ug/kg	9.6 U	9.3 U	10 U	19 U	1.8 U	1.9 U	9.8 U
Endosulfan sulfate	ug/kg	8.3 U	8.0 U	9.0 U	16 U	1.6 U	1.6 U	8.4 U
Endrin	ug/kg	12 U	12 U	13 U	24 U	2.4 U	2.4 U	13 U
Endrin aldehyde	ug/kg	8.5 U	8.2 U	9.2 U	17 U	1.6 U	1.6 U	8.6 U
Endrin ketone	ug/kg	5.8 U	5.6 U	6.2 U	11 U	1.1 U	1.1 U	5.9 U
gamma-BHC (lindane)	ug/kg	12 U	11 U	13 U	23 U	2.2 U	2.2 U	12 U
gamma-Chlordane	ug/kg	8.0 U	7.7 U	8.6 U	16 U	1.5 U	1.5 U	8.1 U
Heptachlor	ug/kg	10 U	9.9 U	11 U	20 U	2.0 U	2.0 U	10 U
Heptachlor epoxide	ug/kg	9.3 U	9.0 U	10 U	18 U	1.8 U	1.8 U	9.5 U
Methoxychlor	ug/kg	42 U	41 U	46 U	83 U	8.1 U	8.2 U	43 U
Toxaphene	ug/kg	160 U	160 U	170 U	320 U	31 U	31 U	160 U

Table 3

Summary of Analytical Results
Floodplain Soil Samples - Upstream
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-204**	**SS-204**	**SS-205**	**SS-205**	**SS-206**	**SS-206**	**SS-207**
Sample ID:		**SS-38443-121018-JC-221**	**SS-38443-121018-JC-200**	**SS-38443-121018-JC-205**	**SS-38443-121018-JC-222**	**SS-38443-121018-JC-206**	**SS-38443-121018-JC-223**	**SS-38443-121018-JC-207**
Sample Date:		**12/10/2018**	**12/10/2018**	**12/10/2018**	**12/10/2018**	**12/10/2018**	**12/10/2018**	**12/10/2018**
Sample Depth:		**0.5-2 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**
			Duplicate					
Parameters	**Units**							
Herbicides								
2,4,5-T	ug/kg	17 U	16 U	18 U	16 U	16 U	16 U	17 U
2,4,5-TP (Silvex)	ug/kg	18 U	17 U	19 U	17 U	17 U	17 U	18 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	63 U	61 U	67 U	60 U	61 U	61 U	64 U
General Chemistry								
Cyanide (total)	mg/kg	0.22 U	0.23 U	0.29 U	0.26 J	0.23 U	0.26 U	0.27 U

Notes
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.

Table 3

Summary of Analytical Results
Floodplain Soil Samples - Upstream
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-207**	**SS-208**	**SS-208**	**SS-208**
Sample ID:		**SS-38443-121018-JC-224**	**SS-38443-121018-JC-208**	**SS-38443-121018-JC-225**	**SS-38443-121018-JC-199**
Sample Date:		**12/10/2018**	**12/10/2018**	**12/10/2018**	**12/10/2018**
Sample Depth:		**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0.5-2 ft BGS**
					Duplicate
Parameters	**Units**				
Volatiles					
1,1,1-Trichloroethane	ug/kg	0.87 U	1.0 U	0.87 U	0.88 U
1,1,2,2-Tetrachloroethane	ug/kg	1.5 U	R	1.5 U	1.5 U
1,1,2-Trichloroethane	ug/kg	1.2 U	1.4 U	1.2 U	1.2 U
1,1-Dichloroethane	ug/kg	0.74 U	0.86 U	0.74 U	0.75 U
1,1-Dichloroethene	ug/kg	0.96 U	1.1 U	0.96 U	0.97 U
1,2,4-Trichlorobenzene	ug/kg	0.61 U	R	0.61 U	0.62 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	3.8 U	R	3.8 U	3.9 U
1,2-Dibromoethane (Ethylene dibromide)	ug/kg	0.82 U	0.96 U	0.82 U	0.83 U
1,2-Dichlorobenzene	ug/kg	1.2 U	R	1.2 U	1.2 U
1,2-Dichloroethane	ug/kg	0.82 U	0.96 U	0.82 U	0.83 U
1,2-Dichloropropane	ug/kg	0.90 U	1.1 U	0.91 U	0.92 U
1,3-Dichlorobenzene	ug/kg	0.87 U	R	0.87 U	0.88 U
1,4-Dichlorobenzene	ug/kg	0.94 U	R	0.94 U	0.95 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/kg	3.8 U	4.4 U	3.8 U	3.8 U
2-Hexanone	ug/kg	4.3 U	5.1 U	4.4 U	4.4 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/kg	3.9 U	4.6 U	4.0 U	4.0 U
Acetone	ug/kg	22 U	26 U	22 U	23 U
Benzene	ug/kg	0.74 U	0.87 U	0.74 U	0.75 U
Bromodichloromethane	ug/kg	0.72 U	0.84 U	0.72 U	0.73 U
Bromoform	ug/kg	2.6 U	3.0 U	2.6 U	2.6 U
Bromomethane (Methyl bromide)	ug/kg	1.1 U	1.2 U	1.1 U	1.1 U
Carbon disulfide	ug/kg	1.2 U	1.4 U	1.2 U	1.3 U
Carbon tetrachloride	ug/kg	3.5 U	4.0 U	3.5 U	3.5 U
Chlorobenzene	ug/kg	0.97 U	1.1 U	0.98 U	0.99 U
Chloroethane	ug/kg	1.3 U	1.5 U	1.3 U	1.3 U
Chloroform (Trichloromethane)	ug/kg	0.84 U	0.98 U	0.84 U	0.85 U
Chloromethane (Methyl chloride)	ug/kg	1.1 U	1.3 U	1.1 U	1.1 U
cis-1,2-Dichloroethene	ug/kg	0.69 U	0.81 U	0.69 U	0.70 U
cis-1,3-Dichloropropene	ug/kg	1.5 U	1.8 U	1.5 U	1.5 U
Cyclohexane	ug/kg	1.5 U	1.7 U	1.5 U	1.5 U
Dibromochloromethane	ug/kg	3.0 U	3.5 U	3.0 U	3.0 U
Dichlorodifluoromethane (CFC-12)	ug/kg	1.0 U	1.2 U	1.0 U	1.0 U
Ethylbenzene	ug/kg	1.1 U	1.3 U	1.1 U	1.1 U
Isopropyl benzene	ug/kg	0.88 U	1.0 U	0.89 U	0.90 U
Methyl acetate	ug/kg	3.6 U	4.2 U	3.6 U	3.7 U
Methyl cyclohexane	ug/kg	1.3 U	1.5 U	1.3 U	1.3 U
Methyl tert butyl ether (MTBE)	ug/kg	0.87 U	1.0 U	0.87 U	0.88 U
Methylene chloride	ug/kg	13 U	15 U	13 U	13 U
Styrene	ug/kg	1.2 U	1.4 U	1.2 U	1.2 U
Tetrachloroethene	ug/kg	0.78 U	0.91 U	0.78 U	0.79 U
Toluene	ug/kg	0.82 U	0.96 U	0.82 U	0.83 U
trans-1,2-Dichloroethene	ug/kg	0.49 U	0.58 U	0.50 U	0.50 U
trans-1,3-Dichloropropene	ug/kg	1.1 U	1.3 U	1.1 U	1.1 U

Table 3

Summary of Analytical Results
Floodplain Soil Samples - Upstream
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-207**	**SS-208**	**SS-208**	**SS-208**
Sample ID:		**SS-38443-121018-JC-224**	**SS-38443-121018-JC-208**	**SS-38443-121018-JC-225**	**SS-38443-121018-JC-199**
Sample Date:		**12/10/2018**	**12/10/2018**	**12/10/2018**	**12/10/2018**
Sample Depth:		**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0.5-2 ft BGS**
					Duplicate
Parameters	**Units**				
Trichloroethene	ug/kg	0.67 U	0.79 U	0.67 U	0.68 U
Trichlorofluoromethane (CFC-11)	ug/kg	1.1 U	1.3 U	1.1 U	1.2 U
Trifluorotrichloroethane (CFC-113)	ug/kg	1.4 U	1.6 U	1.4 U	1.4 U
Vinyl chloride	ug/kg	0.89 U	1.0 U	0.89 U	0.90 U
Xylenes (total)	ug/kg	1.7 U	2.0 U	1.7 U	1.7 U
Semi-Volatiles					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/kg	13 U	13 U	13 U	13 U
2,4,5-Trichlorophenol	ug/kg	87 U	93 U	90 U	89 U
2,4,6-Trichlorophenol	ug/kg	81 U	86 U	83 U	83 U
2,4-Dichlorophenol	ug/kg	56 U	59 U	57 U	57 U
2,4-Dimethylphenol	ug/kg	50 U	54 U	52 U	52 U
2,4-Dinitrophenol	ug/kg	180 U	190 U	180 U	180 U
2,4-Dinitrotoluene	ug/kg	78 U	83 U	81 U	80 U
2,6-Dinitrotoluene	ug/kg	71 U	75 U	73 U	72 U
2-Chloronaphthalene	ug/kg	18 U	19 U	18 U	18 U
2-Chlorophenol	ug/kg	13 U	13 U	13 U	13 U
2-Methylnaphthalene	ug/kg	22	13 J	25	11 J
2-Methylphenol	ug/kg	39 U	42 U	40 U	40 U
2-Nitroaniline	ug/kg	50 U	54 U	52 U	52 U
2-Nitrophenol	ug/kg	16 U	17 U	17 U	17 U
3&4-Methylphenol	ug/kg	37 U	39 U	38 U	37 U
3,3'-Dichlorobenzidine	ug/kg	54 U	58 U	56 U	55 U
3-Nitroaniline	ug/kg	62 U	66 U	64 U	63 U
4,6-Dinitro-2-methylphenol	ug/kg	100 U	110 U	100 U	100 U
4-Bromophenyl phenyl ether	ug/kg	18 U	19 U	18 U	18 U
4-Chloro-3-methylphenol	ug/kg	57 U	60 U	59 U	58 U
4-Chloroaniline	ug/kg	38 U	40 U	39 U	39 U
4-Chlorophenyl phenyl ether	ug/kg	18 U	19 U	18 U	18 U
4-Nitroaniline	ug/kg	76 U	81 U	78 U	77 U
4-Nitrophenol	ug/kg	120 U	130 U	120 U	120 U
Acenaphthene	ug/kg	18 J	14 J	3.7 U	3.7 U
Acenaphthylene	ug/kg	63	23	47	37
Acetophenone	ug/kg	14 U	15 U	14 U	14 U
Anthracene	ug/kg	68	44	52	40
Atrazine	ug/kg	45 U	48 U	47 U	46 U
Benzaldehyde	ug/kg	29 U	31 U	30 U	30 U
Benzo(a)anthracene	ug/kg	470	300	430	290
Benzo(a)pyrene	ug/kg	510	320	460	290
Benzo(b)fluoranthene	ug/kg	840	590	810	510
Benzo(g,h,i)perylene	ug/kg	380	300	390	270
Benzo(k)fluoranthene	ug/kg	290	190	260	190
Biphenyl (1,1-Biphenyl)	ug/kg	21 U	23 U	22 U	22 U
bis(2-Chloroethoxy)methane	ug/kg	15 U	16 U	16 U	15 U

Table 3

Summary of Analytical Results
Floodplain Soil Samples - Upstream
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-207**	**SS-208**	**SS-208**	**SS-208**
Sample ID:		**SS-38443-121018-JC-224**	**SS-38443-121018-JC-208**	**SS-38443-121018-JC-225**	**SS-38443-121018-JC-199**
Sample Date:		**12/10/2018**	**12/10/2018**	**12/10/2018**	**12/10/2018**
Sample Depth:		**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0.5-2 ft BGS**
					Duplicate
Parameters	**Units**				
bis(2-Chloroethyl)ether	ug/kg	15 U	16 U	16 U	15 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	120	68 U	130	98
Butyl benzylphthalate (BBP)	ug/kg	28 U	30 U	29 U	28 U
Caprolactam	ug/kg	95 U	100 U	98 U	97 U
Carbazole	ug/kg	42 J	33 J	48 J	33 J
Chrysene	ug/kg	560	410	490	370
Dibenz(a,h)anthracene	ug/kg	110	70	110	64
Dibenzofuran	ug/kg	16 U	17 U	21 J	17 U
Diethyl phthalate	ug/kg	39 U	42 U	40 U	40 U
Dimethyl phthalate	ug/kg	18 U	19 U	18 U	18 U
Di-n-butylphthalate (DBP)	ug/kg	29 J	30 U	29 U	28 U
Di-n-octyl phthalate (DnOP)	ug/kg	35 U	38 U	36 U	36 U
Fluoranthene	ug/kg	810	640	690	560
Fluorene	ug/kg	18 J	3.7 U	21	16 J
Hexachlorobenzene	ug/kg	3.6 U	3.8 UJ	3.7 UJ	3.7 UJ
Hexachlorobutadiene	ug/kg	15 U	16 U	16 U	15 U
Hexachlorocyclopentadiene	ug/kg	78 U	R	81 UJ	80 UJ
Hexachloroethane	ug/kg	11 U	12 U	12 U	12 U
Indeno(1,2,3-cd)pyrene	ug/kg	350	210	340	220
Isophorone	ug/kg	15 U	16 U	16 U	15 U
Naphthalene	ug/kg	18 J	8.9 J	21	10 J
Nitrobenzene	ug/kg	16 U	17 U	17 U	17 U
N-Nitrosodi-n-propylamine	ug/kg	14 U	15 U	14 U	14 U
N-Nitrosodiphenylamine	ug/kg	15 U	16 U	16 U	15 U
Pentachlorophenol	ug/kg	73 UJ	78 U	76 U	75 U
Phenanthrene	ug/kg	260	230	340	230
Phenol	ug/kg	10 U	11 U	10 U	10 U
Pyrene	ug/kg	780	620	730	570
Metals					
Aluminum	mg/kg	11000	9200	12000	12000
Antimony	mg/kg	0.29 J	0.27 J	0.35 J	0.31 J
Arsenic	mg/kg	9.9	8.3	10	9.9
Barium	mg/kg	150	130	150	140
Beryllium	mg/kg	0.64	0.59	0.77	0.68
Cadmium	mg/kg	1.9	0.69	2.0	1.2
Calcium	mg/kg	61000	68000	58000	58000
Chromium	mg/kg	44	20	45	31
Cobalt	mg/kg	8.1	7.1	8.3	8.4
Copper	mg/kg	50	27	54	39
Iron	mg/kg	20000	18000	21000	21000
Lead	mg/kg	75	32	77	52
Magnesium	mg/kg	22000	24000	22000	22000
Manganese	mg/kg	570	560	560	620

Table 3

Summary of Analytical Results
Floodplain Soil Samples - Upstream
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-207**	**SS-208**	**SS-208**	**SS-208**
Sample ID:		**SS-38443-121018-JC-224**	**SS-38443-121018-JC-208**	**SS-38443-121018-JC-225**	**SS-38443-121018-JC-199**
Sample Date:		**12/10/2018**	**12/10/2018**	**12/10/2018**	**12/10/2018**
Sample Depth:		**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0.5-2 ft BGS**
					Duplicate
Parameters	**Units**				
Mercury	mg/kg	0.26	0.11 J	0.19	0.15
Nickel	mg/kg	29	20	30	27
Potassium	mg/kg	1400	1500	1600	1600
Selenium	mg/kg	0.72 J	0.76 J	0.83 J	0.78 J
Silver	mg/kg	1.0	0.33	1.2	0.71
Sodium	mg/kg	95 J	98 J	95 J	91 J
Thallium	mg/kg	0.36	0.31	0.40	0.38
Vanadium	mg/kg	25	22	27	26
Zinc	mg/kg	150	100	150	130
PCBs					
Aroclor-1016 (PCB-1016)	ug/kg	27 U	29 U	28 U	28 U
Aroclor-1221 (PCB-1221)	ug/kg	30 U	32 U	30 U	31 U
Aroclor-1232 (PCB-1232)	ug/kg	28 U	31 U	29 U	29 U
Aroclor-1242 (PCB-1242)	ug/kg	23 U	25 U	24 U	24 U
Aroclor-1248 (PCB-1248)	ug/kg	30 U	32 U	30 U	31 U
Aroclor-1254 (PCB-1254)	ug/kg	1500	140 J	1500 J	460 J
Aroclor-1260 (PCB-1260)	ug/kg	27 U	29 U	28 U	28 U
Pesticides					
4,4'-DDD	ug/kg	9.2 U	10 U	9.7 U	19 U
4,4'-DDE	ug/kg	9.4 U	10 U	9.9 U	19 U
4,4'-DDT	ug/kg	7.1 U	7.7 U	7.4 U	14 U
Aldrin	ug/kg	4.8 U	5.3 U	5.0 U	9.8 U
alpha-BHC	ug/kg	5.7 U	6.2 U	6.0 U	12 U
alpha-Chlordane	ug/kg	9.4 U	10 U	9.8 U	19 U
beta-BHC	ug/kg	11 U	12 U	11 U	22 U
delta-BHC	ug/kg	11 U	12 U	11 U	22 U
Dieldrin	ug/kg	6.9 U	7.5 U	7.2 U	14 U
Endosulfan I	ug/kg	7.5 U	8.2 U	7.9 U	15 U
Endosulfan II	ug/kg	9.2 U	10 U	9.7 U	19 U
Endosulfan sulfate	ug/kg	8.0 U	8.8 U	8.4 U	16 U
Endrin	ug/kg	12 U	13 U	12 U	24 U
Endrin aldehyde	ug/kg	8.2 U	9.0 U	8.6 U	17 U
Endrin ketone	ug/kg	5.6 U	6.1 U	5.8 U	11 U
gamma-BHC (lindane)	ug/kg	11 U	12 U	12 U	23 U
gamma-Chlordane	ug/kg	7.7 U	8.4 U	8.0 U	16 U
Heptachlor	ug/kg	9.9 U	11 U	10 U	20 U
Heptachlor epoxide	ug/kg	9.0 U	9.8 U	9.4 U	18 U
Methoxychlor	ug/kg	41 U	45 U	43 U	84 U
Toxaphene	ug/kg	160 U	170 U	160 U	320 U

Table 3

Summary of Analytical Results
Floodplain Soil Samples - Upstream
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-207**	**SS-208**	**SS-208**	**SS-208**
Sample ID:		**SS-38443-121018-JC-224**	**SS-38443-121018-JC-208**	**SS-38443-121018-JC-225**	**SS-38443-121018-JC-199**
Sample Date:		**12/10/2018**	**12/10/2018**	**12/10/2018**	**12/10/2018**
Sample Depth:		**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0.5-2 ft BGS**
					Duplicate
Parameters	**Units**				
Herbicides					
2,4,5-T	ug/kg	16 U	17 U	17 U	17 U
2,4,5-TP (Silvex)	ug/kg	18 U	19 U	18 U	18 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	62 U	65 U	63 U	62 U
General Chemistry					
Cyanide (total)	mg/kg	0.22 U	0.27 J	0.26 U	0.25 U

Notes
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.

Table 4

Summary of Detections
Floodplain Soil Samples - Upstream
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:							**SS-201**	**SS-201**	**SS-202**	**SS-202**
Sample ID:							**SS-38443-121018-JC-201**	**SS-38443-121018-JC-218**	**SS-38443-121018-JC-202**	**SS-38443-121018-JC-219**
Sample Date:							**12/10/2018**	**12/10/2018**	**12/10/2018**	**12/10/2018**
Sample Depth:							**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**
Parameters	**Units**	**Samples**	**Detects**	**Min Detect**	**Max Detect**	**Average (Detects)**				
Semi-Volatiles										
2-Methylnaphthalene	ug/kg	18	17	4.3	27	14.106	**7.9 J**	**15 J**	**16 J**	**27**
Acenaphthene	ug/kg	18	14	9.6	38	17.757	**22**	**38**	**19 J**	**29**
Acenaphthylene	ug/kg	18	18	6.2	63	29.611	**16 J**	**23**	**36**	**48**
Anthracene	ug/kg	18	18	6.9	130	49.478	**71**	**130**	**65**	**79**
Benzaldehyde	ug/kg	18	3	34	85	55.000	26 U	26 U	**34 J**	29 U
Benzo(a)anthracene	ug/kg	18	18	52	500	310.833	**280**	**500**	**420**	**440**
Benzo(a)pyrene	ug/kg	18	18	63	540	352.222	**280**	**490**	**540**	**540**
Benzo(b)fluoranthene	ug/kg	18	18	110	990	587.778	**480**	**720**	**990**	**880**
Benzo(g,h,i)perylene	ug/kg	18	18	54	390	266.833	**190**	**350**	**300**	**300**
Benzo(k)fluoranthene	ug/kg	18	18	30	380	212.000	**170**	**340**	**380**	**380**
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	18	15	76	240	115.533	**240**	93 U	**160**	**140**
Butyl benzylphthalate (BBP)	ug/kg	18	2	30	38	34.000	25 U	25 U	29 U	28 U
Carbazole	ug/kg	18	16	29	84	41.563	**39 J**	**84**	**57 J**	**54 J**
Chrysene	ug/kg	18	18	71	600	400.389	**330**	**590**	**600**	**560**
Dibenz(a,h)anthracene	ug/kg	18	14	20	110	69.214	7.9 U	7.8 U	9.0 U	8.7 U
Dibenzofuran	ug/kg	18	4	16	22	20.250	15 U	**22 J**	**22 J**	**16 J**
Di-n-butylphthalate (DBP)	ug/kg	18	6	28	30	28.833	25 U	25 U	29 U	28 U
Fluoranthene	ug/kg	18	18	120	1300	696.667	**760**	**1300**	**1300**	**1100**
Fluorene	ug/kg	18	15	10	37	17.800	**21**	**37**	**20**	**26**
Indeno(1,2,3-cd)pyrene	ug/kg	18	18	48	350	235.111	**170**	**290**	**270**	**270**
Naphthalene	ug/kg	18	15	8.9	22	13.300	2.8 U	**11 J**	**16 J**	**22**
Phenanthrene	ug/kg	18	18	43	610	256.444	**340**	**610**	**350**	**400**
Pyrene	ug/kg	18	18	98	820	552.111	**490**	**820**	**780**	**630**
Metals										
Aluminum	mg/kg	18	18	6400	13000	10400.000	**6400**	**7200**	**9600**	**11000**
Antimony	mg/kg	18	18	0.19	0.35	0.272	**0.19 J**	**0.21 J**	**0.26 J**	**0.29 J**
Arsenic	mg/kg	18	18	6.7	10	8.889	**6.7**	**7.1**	**8.2**	**9.5**
Barium	mg/kg	18	18	73	150	132.667	**73**	**75**	**130**	**140**
Beryllium	mg/kg	18	18	0.32	0.77	0.586	**0.32**	**0.37**	**0.51**	**0.57**
Cadmium	mg/kg	18	18	0.33	2	0.970	**0.45**	**0.52**	**0.70**	**1.4**
Calcium	mg/kg	18	18	20000	82000	59833.333	**82000**	**74000**	**63000**	**59000**
Chromium	mg/kg	18	18	15	45	26.389	**15**	**16**	**20**	**37**
Cobalt	mg/kg	18	18	5	13	8.017	**5.0**	**5.1**	**7.1**	**7.9**
Copper	mg/kg	18	18	15	54	31.500	**20**	**21**	**27**	**39**
Iron	mg/kg	18	18	13000	23000	19388.889	**13000**	**14000**	**19000**	**20000**
Lead	mg/kg	18	18	26	77	46.056	**29**	**39**	**34**	**73**
Magnesium	mg/kg	18	18	8900	32000	22327.778	**31000**	**32000**	**22000**	**22000**
Manganese	mg/kg	18	18	350	1000	596.111	**350**	**370**	**540**	**560**
Mercury	mg/kg	18	18	0.041	0.26	0.115	**0.058 J**	**0.057 J**	**0.12**	**0.14 J**
Nickel	mg/kg	18	18	15	30	23.056	**15**	**16**	**21**	**28**
Potassium	mg/kg	18	18	870	1600	1392.778	**870**	**1000**	**1500**	**1400**
Selenium	mg/kg	18	18	0.34	0.83	0.674	**0.38 J**	**0.34 J**	**0.68 J**	**0.70 J**
Silver	mg/kg	18	18	0.06	1.2	0.523	**0.23**	**0.28**	**0.33**	**0.80**
Sodium	mg/kg	18	17	61	110	94.765	**110 J**	**100 J**	**92 J**	**94 J**

Table 4

Summary of Detections
Floodplain Soil Samples - Upstream
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:							**SS-201**	**SS-201**	**SS-202**	**SS-202**
Sample ID:							**SS-38443-121018-JC-201**	**SS-38443-121018-JC-218**	**SS-38443-121018-JC-202**	**SS-38443-121018-JC-219**
Sample Date:							**12/10/2018**	**12/10/2018**	**12/10/2018**	**12/10/2018**
Sample Depth:							**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**
Parameters	**Units**	**Samples**	**Detects**	**Min Detect**	**Max Detect**	**Average (Detects)**				
Thallium	mg/kg	18	18	0.19	0.4	0.314	**0.19**	**0.21**	**0.31**	**0.35**
Vanadium	mg/kg	18	18	17	30	24.000	**17**	**18**	**22**	**25**
Zinc	mg/kg	18	18	60	150	110.611	**68**	**76**	**110**	**130**
PCBs										
Aroclor-1254 (PCB-1254)	ug/kg	18	16	72	3300	712.188	**72**	**93 J**	**210**	**330**
Pesticides										
4,4'-DDD	ug/kg	18	1	4.1	4.1	4.100	1.7 U	1.7 U	9.6 U	9.4 U
4,4'-DDE	ug/kg	18	2	2	4.5	3.250	1.8 U	**2.0 J**	9.8 U	9.6 U
4,4'-DDT	ug/kg	18	4	1.9	3.6	2.550	**2.0 J**	**1.9 NJ**	7.3 U	7.2 U
Endrin aldehyde	ug/kg	18	1	2	2	2.000	1.5 U	1.5 U	8.5 U	8.3 U
General Chemistry										
Cyanide (total)	mg/kg	18	3	0.26	0.29	0.273	0.24 U	0.20 U	0.26 U	0.24 U

Notes
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.

Table 4

Summary of Detections
Floodplain Soil Samples - Upstream
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-203**	**SS-203**	**SS-204**	**SS-204**	**SS-204**	**SS-205**	**SS-205**
Sample ID:		**SS-38443-121018-JC-203**	**SS-38443-121018-JC-220**	**SS-38443-121018-JC-204**	**SS-38443-121018-JC-221**	**SS-38443-121018-JC-200**	**SS-38443-121018-JC-205**	**SS-38443-121018-JC-222**
Sample Date:		**12/10/2018**	**12/10/2018**	**12/10/2018**	**12/10/2018**	**12/10/2018**	**12/10/2018**	**12/10/2018**
Sample Depth:		**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**
						Duplicate		
Parameters	**Units**							
Semi-Volatiles								
2-Methylnaphthalene	ug/kg	**10 J**	**16 J**	**9.6 J**	**12 J**	**14 J**	**11 J**	**16 J**
Acenaphthene	ug/kg	**14 J**	**14 J**	**9.6 J**	**13 J**	**14 J**	**14 J**	**15 J**
Acenaphthylene	ug/kg	**25**	**28**	**25**	**27**	**36**	**26**	**28**
Anthracene	ug/kg	**40**	**39**	**36**	**36**	**41**	**44**	**42**
Benzaldehyde	ug/kg	31 U	30 U	30 U	30 U	30 U	**85 J**	29 U
Benzo(a)anthracene	ug/kg	**270**	**280**	**270**	**260**	**290**	**330**	**290**
Benzo(a)pyrene	ug/kg	**350**	**330**	**310**	**300**	**340**	**390**	**320**
Benzo(b)fluoranthene	ug/kg	**540**	**560**	**510**	**500**	**560**	**620**	**510**
Benzo(g,h,i)perylene	ug/kg	**270**	**310**	**240**	**220**	**260**	**310**	**240**
Benzo(k)fluoranthene	ug/kg	**180**	**140**	**190**	**160**	**180**	**240**	**200**
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	**84 J**	**150**	**78 J**	**93**	**96**	**80 J**	**100**
Butyl benzylphthalate (BBP)	ug/kg	29 U	28 U	29 U	**30 J**	29 U	31 U	**38 J**
Carbazole	ug/kg	**33 J**	**29 J**	**30 J**	**31 J**	**35 J**	**41 J**	**34 J**
Chrysene	ug/kg	**400**	**360**	**360**	**340**	**370**	**450**	**350**
Dibenz(a,h)anthracene	ug/kg	**66**	**58**	**64**	**68**	**76**	**82**	**66**
Dibenzofuran	ug/kg	17 U	17 U	17 U	17 U	17 U	18 U	17 U
Di-n-butylphthalate (DBP)	ug/kg	29 U	**28 J**	29 U	**28 J**	29 U	31 U	**30 J**
Fluoranthene	ug/kg	**640**	**560**	**570**	**550**	**590**	**770**	**540**
Fluorene	ug/kg	**12 J**	**14 J**	**10 J**	**12 J**	**14 J**	**15 J**	**15 J**
Indeno(1,2,3-cd)pyrene	ug/kg	**240**	**250**	**220**	**200**	**250**	**280**	**220**
Naphthalene	ug/kg	**11 J**	**16 J**	**9.3 J**	**11 J**	**11 J**	**9.3 J**	**13 J**
Phenanthrene	ug/kg	**210**	**200**	**190**	**190**	**200**	**260**	**230**
Pyrene	ug/kg	**480**	**470**	**480**	**460**	**520**	**630**	**510**
Metals								
Aluminum	mg/kg	**9800**	**11000**	**10000**	**12000**	**12000**	**10000**	**11000**
Antimony	mg/kg	**0.26 J**	**0.31 J**	**0.25 J**	**0.31 J**	**0.30 J**	**0.27 J**	**0.31 J**
Arsenic	mg/kg	**8.6**	**10**	**8.5**	**9.8**	**10**	**8.3**	**9.8**
Barium	mg/kg	**130**	**150**	**130**	**150**	**150**	**130**	**140**
Beryllium	mg/kg	**0.51**	**0.74**	**0.51**	**0.61**	**0.63**	**0.54**	**0.62**
Cadmium	mg/kg	**0.69**	**1.7**	**0.64**	**1.0**	**1.1**	**0.66**	**1.5**
Calcium	mg/kg	**66000**	**57000**	**65000**	**58000**	**57000**	**69000**	**62000**
Chromium	mg/kg	**21**	**40**	**20**	**28**	**30**	**20**	**36**
Cobalt	mg/kg	**7.4**	**8.4**	**7.4**	**8.3**	**8.5**	**7.3**	**8.0**
Copper	mg/kg	**27**	**44**	**26**	**33**	**34**	**27**	**41**
Iron	mg/kg	**19000**	**21000**	**19000**	**22000**	**22000**	**19000**	**21000**
Lead	mg/kg	**34**	**75**	**32**	**47**	**52**	**31**	**64**
Magnesium	mg/kg	**24000**	**22000**	**24000**	**21000**	**21000**	**25000**	**23000**
Manganese	mg/kg	**580**	**590**	**560**	**590**	**590**	**580**	**560**
Mercury	mg/kg	**0.090 J**	**0.14**	**0.086 J**	**0.11 J**	**0.12 J**	**0.11 J**	**0.16**
Nickel	mg/kg	**21**	**29**	**21**	**26**	**28**	**21**	**27**
Potassium	mg/kg	**1500**	**1300**	**1400**	**1500**	**1500**	**1600**	**1500**
Selenium	mg/kg	**0.70 J**	**0.81 J**	**0.71 J**	**0.74 J**	**0.76 J**	**0.73 J**	**0.74 J**
Silver	mg/kg	**0.37**	**0.92**	**0.33**	**0.65**	**0.70**	**0.29**	**0.86**
Sodium	mg/kg	**93 J**	**91 J**	**97 J**	**96 J**	**100 J**	**100 J**	**100 J**

Table 4

Summary of Detections
Floodplain Soil Samples - Upstream
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-203**	**SS-203**	**SS-204**	**SS-204**	**SS-204**	**SS-205**	**SS-205**
Sample ID:		**SS-38443-121018-JC-203**	**SS-38443-121018-JC-220**	**SS-38443-121018-JC-204**	**SS-38443-121018-JC-221**	**SS-38443-121018-JC-200**	**SS-38443-121018-JC-205**	**SS-38443-121018-JC-222**
Sample Date:		**12/10/2018**	**12/10/2018**	**12/10/2018**	**12/10/2018**	**12/10/2018**	**12/10/2018**	**12/10/2018**
Sample Depth:		**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**
						Duplicate		
Parameters	**Units**							
Thallium	mg/kg	**0.32**	**0.37**	**0.33**	**0.38**	**0.38**	**0.32**	**0.37**
Vanadium	mg/kg	**22**	**25**	**23**	**27**	**27**	**24**	**26**
Zinc	mg/kg	**110**	**140**	**100**	**120**	**130**	**110**	**140**
PCBs								
Aroclor-1254 (PCB-1254)	ug/kg	**150**	**2800**	**160 J**	**210**	**200**	**160 J**	**3300**
Pesticides								
4,4'-DDD	ug/kg	1.9 U	1.9 U	**4.1 NJ**	9.6 U	9.3 U	10 U	19 U
4,4'-DDE	ug/kg	**4.5 J**	1.9 U	2.0 U	9.8 U	9.5 U	11 U	19 U
4,4'-DDT	ug/kg	**3.6 NJ**	1.4 U	**2.7 NJ**	7.3 U	7.1 U	7.9 U	14 U
Endrin aldehyde	ug/kg	1.7 U	**2.0 NJ**	1.7 U	8.5 U	8.2 U	9.2 U	17 U
General Chemistry								
Cyanide (total)	mg/kg	0.23 U	0.23 U	**0.29 J**	0.22 U	0.23 U	0.29 U	**0.26 J**

Notes
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.

Table 4

Summary of Detections
Floodplain Soil Samples - Upstream
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-206**	**SS-206**	**SS-207**	**SS-207**	**SS-208**	**SS-208**	**SS-208**
Sample ID:		**SS-38443-121018-JC-206**	**SS-38443-121018-JC-223**	**SS-38443-121018-JC-207**	**SS-38443-121018-JC-224**	**SS-38443-121018-JC-208**	**SS-38443-121018-JC-225**	**SS-38443-121018-JC-199**
Sample Date:		**12/10/2018**	**12/10/2018**	**12/10/2018**	**12/10/2018**	**12/10/2018**	**12/10/2018**	**12/10/2018**
Sample Depth:		**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0.5-2 ft BGS**
								Duplicate
Parameters	**Units**							
Semi-Volatiles								
2-Methylnaphthalene	ug/kg	**4.3 J**	2.4 U	**10 J**	**22**	**13 J**	**25**	**11 J**
Acenaphthene	ug/kg	3.6 U	3.6 U	**15 J**	**18 J**	**14 J**	3.7 U	3.7 U
Acenaphthylene	ug/kg	**6.8 J**	**6.2 J**	**32**	**63**	**23**	**47**	**37**
Anthracene	ug/kg	**7.7 J**	**6.9 J**	**49**	**68**	**44**	**52**	**40**
Benzaldehyde	ug/kg	29 U	29 U	**46 J**	29 U	31 U	30 U	30 U
Benzo(a)anthracene	ug/kg	**52**	**53**	**370**	**470**	**300**	**430**	**290**
Benzo(a)pyrene	ug/kg	**63**	**67**	**440**	**510**	**320**	**460**	**290**
Benzo(b)fluoranthene	ug/kg	**110**	**110**	**740**	**840**	**590**	**810**	**510**
Benzo(g,h,i)perylene	ug/kg	**54**	**59**	**360**	**380**	**300**	**390**	**270**
Benzo(k)fluoranthene	ug/kg	**30**	**36**	**260**	**290**	**190**	**260**	**190**
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	**88**	64 U	**76 J**	**120**	68 U	**130**	**98**
Butyl benzylphthalate (BBP)	ug/kg	28 U	27 U	29 U	28 U	30 U	29 U	28 U
Carbazole	ug/kg	24 U	24 U	**42 J**	**42 J**	**33 J**	**48 J**	**33 J**
Chrysene	ug/kg	**71**	**76**	**520**	**560**	**410**	**490**	**370**
Dibenz(a,h)anthracene	ug/kg	**20**	**20**	**95**	**110**	**70**	**110**	**64**
Dibenzofuran	ug/kg	16 U	16 U	17 U	16 U	17 U	**21 J**	17 U
Di-n-butylphthalate (DBP)	ug/kg	**28 J**	27 U	**30 J**	**29 J**	30 U	29 U	28 U
Fluoranthene	ug/kg	**120**	**150**	**890**	**810**	**640**	**690**	**560**
Fluorene	ug/kg	3.4 U	3.4 U	**16 J**	**18 J**	3.7 U	**21**	**16 J**
Indeno(1,2,3-cd)pyrene	ug/kg	**48**	**54**	**350**	**350**	**210**	**340**	**220**
Naphthalene	ug/kg	3.0 U	3.0 U	**12 J**	**18 J**	**8.9 J**	**21**	**10 J**
Phenanthrene	ug/kg	**43**	**53**	**280**	**260**	**230**	**340**	**230**
Pyrene	ug/kg	**98**	**140**	**730**	**780**	**620**	**730**	**570**
Metals								
Aluminum	mg/kg	**11000**	**13000**	**9000**	**11000**	**9200**	**12000**	**12000**
Antimony	mg/kg	**0.19 J**	**0.22 J**	**0.31 J**	**0.29 J**	**0.27 J**	**0.35 J**	**0.31 J**
Arsenic	mg/kg	**7.6**	**9.7**	**8.1**	**9.9**	**8.3**	**10**	**9.9**
Barium	mg/kg	**150**	**140**	**130**	**150**	**130**	**150**	**140**
Beryllium	mg/kg	**0.65**	**0.77**	**0.51**	**0.64**	**0.59**	**0.77**	**0.68**
Cadmium	mg/kg	**0.33**	**0.35**	**0.63**	**1.9**	**0.69**	**2.0**	**1.2**
Calcium	mg/kg	**31000**	**20000**	**69000**	**61000**	**68000**	**58000**	**58000**
Chromium	mg/kg	**15**	**18**	**19**	**44**	**20**	**45**	**31**
Cobalt	mg/kg	**13**	**12**	**7.0**	**8.1**	**7.1**	**8.3**	**8.4**
Copper	mg/kg	**15**	**17**	**26**	**50**	**27**	**54**	**39**
Iron	mg/kg	**19000**	**23000**	**18000**	**20000**	**18000**	**21000**	**21000**
Lead	mg/kg	**27**	**26**	**30**	**75**	**32**	**77**	**52**
Magnesium	mg/kg	**12000**	**8900**	**24000**	**22000**	**24000**	**22000**	**22000**
Manganese	mg/kg	**1000**	**1000**	**550**	**570**	**560**	**560**	**620**
Mercury	mg/kg	**0.043 J**	**0.041 J**	**0.078 J**	**0.26**	**0.11 J**	**0.19**	**0.15**
Nickel	mg/kg	**17**	**19**	**20**	**29**	**20**	**30**	**27**
Potassium	mg/kg	**1200**	**1300**	**1400**	**1400**	**1500**	**1600**	**1600**
Selenium	mg/kg	**0.55 J**	**0.50 J**	**0.70 J**	**0.72 J**	**0.76 J**	**0.83 J**	**0.78 J**
Silver	mg/kg	**0.060 J**	**0.063 J**	**0.29**	**1.0**	**0.33**	**1.2**	**0.71**
Sodium	mg/kg	**61 J**	59 U	**98 J**	**95 J**	**98 J**	**95 J**	**91 J**

Table 4

Summary of Detections
Floodplain Soil Samples - Upstream
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-206**	**SS-206**	**SS-207**	**SS-207**	**SS-208**	**SS-208**	**SS-208**
Sample ID:		**SS-38443-121018-JC-206**	**SS-38443-121018-JC-223**	**SS-38443-121018-JC-207**	**SS-38443-121018-JC-224**	**SS-38443-121018-JC-208**	**SS-38443-121018-JC-225**	**SS-38443-121018-JC-199**
Sample Date:		**12/10/2018**	**12/10/2018**	**12/10/2018**	**12/10/2018**	**12/10/2018**	**12/10/2018**	**12/10/2018**
Sample Depth:		**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0-0.5 ft BGS**	**0.5-2 ft BGS**	**0.5-2 ft BGS**
								Duplicate
Parameters	**Units**							
Thallium	mg/kg	**0.19 J**	**0.20 J**	**0.29**	**0.36**	**0.31**	**0.40**	**0.38**
Vanadium	mg/kg	**25**	**30**	**21**	**25**	**22**	**27**	**26**
Zinc	mg/kg	**60**	**67**	**100**	**150**	**100**	**150**	**130**
PCBs								
Aroclor-1254 (PCB-1254)	ug/kg	28 U	29 U	**110**	**1500**	**140 J**	**1500 J**	**460 J**
Pesticides								
4,4'-DDD	ug/kg	1.8 U	1.9 U	9.8 U	9.2 U	10 U	9.7 U	19 U
4,4'-DDE	ug/kg	1.9 U	1.9 U	10 U	9.4 U	10 U	9.9 U	19 U
4,4'-DDT	ug/kg	1.4 U	1.4 U	7.5 U	7.1 U	7.7 U	7.4 U	14 U
Endrin aldehyde	ug/kg	1.6 U	1.6 U	8.6 U	8.2 U	9.0 U	8.6 U	17 U
General Chemistry								
Cyanide (total)	mg/kg	0.23 U	0.26 U	0.27 U	0.22 U	**0.27 J**	0.26 U	0.25 U

Notes
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.

Appendix F
COPC Screening and EPC Calculation Tables – OU1 Soil/ Fill

Table 1

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU01 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU01 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)	COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Volatile Organic Compounds										
71-55-6	1,1,1-Trichloroethane	ND	ND	µg/kg	--	0/9	0.31 - 4.7	N/A	810000 N	N	ND
79-34-5	1,1,2,2-Tetrachloroethane	ND	ND	µg/kg	--	0/9	0.35 - 4.7	N/A	600 C	N	ND
79-00-5	1,1,2-Trichloroethane	ND	ND	µg/kg	--	0/9	0.53 - 4.7	N/A	150 N	N	ND
75-34-3	1,1-Dichloroethane	ND	ND	µg/kg	--	0/9	0.45 - 4.7	N/A	3.6 C	N	ND
75-35-4	1,1-Dichloroethene	ND	ND	µg/kg	--	0/9	0.73 - 4.7	N/A	23000 N	N	ND
120-82-1	1,2,4-Trichlorobenzene	ND	ND	µg/kg	--	0/9	0.32 - 4.7	N/A	5800 N	N	ND
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	ND	µg/kg	--	0/9	0.92 - 9.4	N/A	5.3 C	N	ND
106-93-4	1,2-Dibromoethane (Ethylene dibromide)	ND	ND	µg/kg	--	0/9	0.47 - 4.7	N/A	36 C	N	ND
95-50-1	1,2-Dichlorobenzene	ND	ND	µg/kg	--	0/9	0.3 - 4.7	N/A	180000 N	N	ND
107-06-2	1,2-Dichloroethane	ND	ND	µg/kg	--	0/9	0.39 - 4.7	N/A	460 C	N	ND
78-87-5	1,2-Dichloropropane	ND	ND	µg/kg	--	0/9	0.42 - 4.7	N/A	1600 N	N	ND
541-73-1	1,3-Dichlorobenzene	ND	ND	µg/kg	--	0/9	0.39 - 4.7	N/A	180000 (5) N	N	ND
106-46-7	1,4-Dichlorobenzene	ND	ND	µg/kg	--	0/9	0.47 - 4.7	N/A	2600 C	N	ND
78-93-3	2-Butanone (Methyl ethyl ketone) (MEK)	4.7 J	4.7 J	µg/kg	TT-16: 2 ft BGS (9/30/2008)	1/9	1.7 - 5	4.7 J	2700000 N	N	BSV
591-78-6	2-Hexanone	ND	ND	µg/kg	--	0/9	0.78 - 19	N/A	20000 N	N	ND
108-10-1	4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ND	ND	µg/kg	--	0/9	1.2 - 19	N/A	3300000 N	N	ND
67-64-1	Acetone	13 J	13 J	µg/kg	TT-16: 2 ft BGS (9/30/2008)	1/9	4.1 - 30	13 J	6100000 N	N	BSV
71-43-2	Benzene	ND	ND	µg/kg	--	0/9	0.43 - 4.7	N/A	1200 C	N	ND
75-27-4	Bromodichloromethane	ND	ND	µg/kg	--	0/9	0.45 - 4.7	N/A	290 C	N	ND
75-25-2	Bromoform	ND	ND	µg/kg	--	0/9	0.54 - 4.7	N/A	19000 C	N	ND
74-83-9	Bromomethane (Methyl bromide)	ND	ND	µg/kg	--	0/9	0.8 - 4.7	N/A	680 N	N	ND
75-15-0	Carbon disulfide	ND	ND	µg/kg	--	0/9	0.28 - 4.7	N/A	77000 N	N	ND
56-23-5	Carbon tetrachloride	ND	ND	µg/kg	--	0/9	0.34 - 4.7	N/A	650 C	N	ND
108-90-7	Chlorobenzene	ND	ND	µg/kg	--	0/9	0.45 - 4.7	N/A	28000 N	N	ND
75-00-3	Chloroethane	ND	ND	µg/kg	--	0/9	0.51 - 4.7	N/A	1400000 N	N	ND
67-66-3	Chloroform (Trichloromethane)	ND	ND	µg/kg	--	0/9	0.31 - 4.7	N/A	320 C	N	ND
74-87-3	Chloromethane (Methyl chloride)	ND	ND	µg/kg	--	0/9	0.51 - 4.7	N/A	11000 N	N	ND
156-59-2	cis-1,2-Dichloroethene	ND	ND	µg/kg	--	0/9	0.38 - 4.7	N/A	16000 N	N	ND
10061-01-5	cis-1,3-Dichloropropene	ND	ND	µg/kg	--	0/9	0.35 - 4.7	N/A	1800 C	N	ND
110-82-7	Cyclohexane	ND	ND	µg/kg	--	0/9	0.28 - 9.4	N/A	650000 N	N	ND
124-48-1	Dibromochloromethane	ND	ND	µg/kg	--	0/9	0.41 - 4.7	N/A	8300 C	N	ND
75-71-8	Dichlorodifluoromethane (CFC-12)	ND	ND	µg/kg	--	0/9	0.47 - 4.7	N/A	8700 N	N	ND
100-41-4	Ethylbenzene	ND	ND	µg/kg	--	0/9	0.37 - 4.7	N/A	5800 C	N	ND
98-82-8	Isopropyl benzene	ND	ND	µg/kg	--	0/9	0.27 - 4.7	N/A	190000 N	N	ND
79-20-9	Methyl acetate	ND	ND	µg/kg	--	0/9	1.6 - 9.4	N/A	7800000 N	N	ND
108-87-2	Methyl cyclohexane	ND	ND	µg/kg	--	0/9	0.31 - 9.4	N/A	650000 (5) N	N	ND
1634-04-4	Methyl tert butyl ether (MTBE)	ND	ND	µg/kg	--	0/9	0.37 - 19	N/A	47000 C	N	ND
75-09-2	Methylene chloride	ND	ND	µg/kg	--	0/9	0.32 - 17	N/A	35000 N	N	ND
100-42-5	Styrene	ND	ND	µg/kg	--	0/9	0.37 - 4.7	N/A	600000 N	N	ND
127-18-4	Tetrachloroethene	ND	ND	µg/kg	--	0/9	0.5 - 4.7	N/A	8100 N	N	ND
108-88-3	Toluene	ND	ND	µg/kg	--	0/9	0.46 - 4.7	N/A	490000 N	N	ND
156-60-5	trans-1,2-Dichloroethene	ND	ND	µg/kg	--	0/9	0.38 - 4.7	N/A	160000 N	N	ND

Table 1

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU01 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU01 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Volatile Organic Compounds (cont.'d)											
10061-02-6	trans-1,3-Dichloropropene	ND	ND	µg/kg	--	0/9	0.28 - 4.7	N/A	1800	C	N	ND
79-01-6	Trichloroethene	ND	ND	µg/kg	--	0/9	0.52 - 4.7	N/A	410	N	N	ND
75-69-4	Trichlorofluoromethane (CFC-11)	ND	ND	µg/kg	--	0/9	0.32 - 4.7	N/A	2300000	N	N	ND
76-13-1	Trifluorotrichloroethane (CFC-113)	ND	ND	µg/kg	--	0/9	0.66 - 4.7	N/A	670000	N	N	ND
75-01-4	Vinyl chloride	ND	ND	µg/kg	--	0/9	0.38 - 4.7	N/A	59	C	N	ND
1330-20-7	Xylenes (total)	ND	ND	µg/kg	--	0/9	0.54 - 9.4	N/A	58000	N	N	ND
	Semi-Volatiles Organic Compounds											
108-60-1	2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ND	ND	µg/kg	--	0/9	11 - 240	N/A	310000	N	N	ND
95-95-4	2,4,5-Trichlorophenol	ND	ND	µg/kg	--	0/9	34 - 360	N/A	630000	N	N	ND
88-06-2	2,4,6-Trichlorophenol	ND	ND	µg/kg	--	0/9	12 - 360	N/A	6300	N	N	ND
120-83-2	2,4-Dichlorophenol	ND	ND	µg/kg	--	0/9	27 - 360	N/A	19000	N	N	ND
105-67-9	2,4-Dimethylphenol	ND	ND	µg/kg	--	0/9	27 - 360	N/A	130000	N	N	ND
51-28-5	2,4-Dinitrophenol	ND	ND	µg/kg	--	0/9	29 - 790	N/A	13000	N	N	ND
121-14-2	2,4-Dinitrotoluene	ND	ND	µg/kg	--	0/9	23 - 480	N/A	1700	C	N	ND
606-20-2	2,6-Dinitrotoluene	ND	ND	µg/kg	--	0/9	29 - 480	N/A	360	C	N	ND
91-58-7	2-Chloronaphthalene	ND	ND	µg/kg	--	0/9	0.62 - 120	N/A	480000	N	N	ND
95-57-8	2-Chlorophenol	ND	ND	µg/kg	--	0/9	11 - 120	N/A	39000	N	N	ND
91-57-6	2-Methylnaphthalene	12 J	85	µg/kg	SS-44: 0.08-1 ft BGS (11/27/2018)	8/9	16	85	240000	N	N	BSV
95-48-7	2-Methylphenol	ND	ND	µg/kg	--	0/9	15 - 480	N/A	320000	N	N	ND
88-74-4	2-Nitroaniline	ND	ND	µg/kg	--	0/9	12 - 480	N/A	63000	n	N	ND
88-75-5	2-Nitrophenol	ND	ND	µg/kg	--	0/9	11 - 120	N/A	--		N	ND
3/4-Cresol	3&4-Methylphenol	ND	ND	µg/kg	--	0/8	27 - 140	N/A	320000 (5)	N	N	ND
91-94-1	3,3'-Dichlorobenzidine	ND	ND	µg/kg	--	0/9	25 - 240	N/A	1200	c	N	ND
99-09-2	3-Nitroaniline	ND	ND	µg/kg	--	0/9	22 - 480	N/A	--		N	ND
106-44-5	4-Methylphenol	ND	ND	µg/kg	--	0/1	480	N/A	630000	N	N	ND
534-52-1	4,6-Dinitro-2-methylphenol	ND	ND	µg/kg	--	0/9	13 - 400	N/A	510	N	N	ND
101-55-3	4-Bromophenyl phenyl ether	ND	ND	µg/kg	--	0/9	16 - 120	N/A	--		N	ND
59-50-7	4-Chloro-3-methylphenol	ND	ND	µg/kg	--	0/9	29 - 360	N/A	630000	N	N	ND
106-47-8	4-Chloroaniline	ND	ND	µg/kg	--	0/9	23 - 360	N/A	2700	C	N	ND
7005-72-3	4-Chlorophenyl phenyl ether	ND	ND	µg/kg	--	0/9	16 - 120	N/A	--		N	ND
100-01-6	4-Nitroaniline	ND	ND	µg/kg	--	0/9	36 - 480	N/A	25000	N	N	ND
100-02-7	4-Nitrophenol	ND	ND	µg/kg	--	0/9	23 - 790	N/A	--		N	ND
83-32-9	Acenaphthene	12 J	130	µg/kg	SS-45: 0.17-1.5 ft BGS (11/27/2018)	6/9	3.3 - 14	130	360000	N	N	BSV
208-96-8	Acenaphthylene	12 J	320	µg/kg	SS-37: 0-2 ft BGS (11/20/2018)	9/9	--	320	360000 (5)	N	N	BSV
98-86-2	Acetophenone	ND	ND	µg/kg	--	0/9	13 - 240	N/A	780000	N	N	ND
120-12-7	Anthracene	25	540	µg/kg	SS-37: 0-2 ft BGS (11/20/2018)	9/9	--	540	1800000	N	N	BSV
1912-24-9	Atrazine	ND	ND	µg/kg	--	0/9	12 - 480	N/A	2400	C	N	ND
100-52-7	Benzaldehyde	16 J	16 J	µg/kg	SS-39: 0-2 ft BGS (11/1/2017)	1/9	26 - 240	16 J	170000	N	N	BSV
56-55-3	**Benzo(a)anthracene**	**210**	**3400**	**µg/kg**	**SS-37: 0-2 ft BGS (11/20/2018)**	**9/9**	**--**	**3400**	**1100**	**C**	**Y**	**ASV**
50-32-8	**Benzo(a)pyrene**	**190**	**3100**	**µg/kg**	**SS-37: 0-2 ft BGS (11/20/2018)**	**9/9**	**--**	**3100**	**110**	**C**	**Y**	**ASV**
205-99-2	**Benzo(b)fluoranthene**	**280**	**3900**	**µg/kg**	**SS-37: 0-2 ft BGS (11/20/2018)**	**9/9**	**--**	**3900**	**1100**	**C**	**Y**	**ASV**

Table 1

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU01 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU01 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Semi-Volatiles Organic Compounds (cont.'d)											
191-24-2	Benzo(g,h,i)perylene	160	2400	µg/kg	SS-37: 0-2 ft BGS (11/20/2018)	9/9	--	2400	180000 (5)	N	N	BSV
207-08-9	Benzo(k)fluoranthene	120	1500	µg/kg	SS-37: 0-2 ft BGS (11/20/2018)	9/9	--	1500	11000	C	N	BSV
92-52-4	Biphenyl (1,1-Biphenyl)	10 J	11 J	µg/kg	SS-39: 0-2 ft BGS (11/1/2017)	1/9	19 - 120	11 J	4700	N	N	BSV
111-91-1	bis(2-Chloroethoxy)methane	ND	ND	µg/kg	--	0/9	14 - 240	N/A	19000	N	N	ND
111-44-4	bis(2-Chloroethyl)ether	ND	ND	µg/kg	--	0/9	2.7 - 240	N/A	230	C	N	ND
117-81-7	bis(2-Ethylhexyl)phthalate (DEHP)	78 J	330	µg/kg	SS-40: 0-2 ft BGS (11/20/2018)	3/9	59 - 220	330	39000	C	N	BSV
85-68-7	Butyl benzylphthalate (BBP)	ND	ND	µg/kg	--	0/9	14 - 120	N/A	290000	C	N	ND
105-60-2	Caprolactam	320 J	320 J	µg/kg	SS-39: 0-2 ft BGS (11/1/2017)	1/9	51 - 790	320 J	3100000	N	N	BSV
86-74-8	**Carbazole**	**26 J**	**330**	**µg/kg**	**SS-40: 0-2 ft BGS (11/20/2018)**	**7/9**	**22 - 84**	**330**	**--**		**Y**	**AD**
218-01-9	Chrysene	210	3200	µg/kg	SS-37: 0-2 ft BGS (11/20/2018)	9/9	--	3200	110000	C	N	BSV
53-70-3	**Dibenz(a,h)anthracene**	**30**	**570**	**µg/kg**	**SS-37: 0-2 ft BGS (11/20/2018)**	**7/9**	**8 - 30**	**570**	**110**	**C**	**Y**	**ASV**
132-64-9	Dibenzofuran	18 J	67 J	µg/kg	SS-40: 0-2 ft BGS (11/20/2018)	5/9	15 - 120	67 J	7300	N	N	BSV
84-66-2	Diethyl phthalate	ND	ND	µg/kg	--	0/9	22 - 150	N/A	5100000	N	N	ND
131-11-3	Dimethyl phthalate	ND	ND	µg/kg	--	0/9	16 - 120	N/A	5100000 (5)	N	N	ND
84-74-2	Di-n-butylphthalate (DBP)	ND	ND	µg/kg	--	0/9	21 - 120	N/A	630000	N	N	ND
117-84-0	Di-n-octyl phthalate (DnOP)	ND	ND	µg/kg	--	0/9	11 - 140	N/A	63000	N	N	ND
206-44-0	Fluoranthene	270	4800	µg/kg	SS-37: 0-2 ft BGS (11/20/2018)	9/9	--	4800	240000	N	N	BSV
86-73-7	Fluorene	13 J	120	µg/kg	SS-40: 0-2 ft BGS (11/20/2018)	7/9	3.1 - 12	120	240000	N	N	BSV
118-74-1	Hexachlorobenzene	ND	ND	µg/kg	--	0/9	2.9 - 16	N/A	210	C	N	ND
87-68-3	Hexachlorobutadiene	ND	ND	µg/kg	--	0/9	7.7 - 120	N/A	1200	C	N	ND
77-47-4	Hexachlorocyclopentadiene	ND	ND	µg/kg	--	0/8	11 - 790	N/A	180	N	N	ND
67-72-1	Hexachloroethane	ND	ND	µg/kg	--	0/9	10 - 120	N/A	1800	C	N	ND
193-39-5	**Indeno(1,2,3-cd)pyrene**	**130**	**1900**	**µg/kg**	**SS-37: 0-2 ft BGS (11/20/2018)**	**9/9**	**--**	**1900**	**1100**	**C**	**Y**	**ASV**
78-59-1	Isophorone	ND	ND	µg/kg	--	0/9	14 - 120	N/A	570000	C	N	ND
91-20-3	Naphthalene	12 J	63 J	µg/kg	SS-37: 0-2 ft BGS (11/20/2018)	8/9	16	63 J	3800	C	N	BSV
98-95-3	Nitrobenzene	ND	ND	µg/kg	--	0/9	3 - 240	N/A	5100	C	N	ND
621-64-7	N-Nitrosodi-n-propylamine	ND	ND	µg/kg	--	0/9	8.6 - 120	N/A	78	C	N	ND
86-30-6	N-Nitrosodiphenylamine	ND	ND	µg/kg	--	0/9	14 - 120	N/A	110000	C	N	ND
87-86-5	Pentachlorophenol	ND	ND	µg/kg	--	0/9	12 - 360	N/A	1000	C	N	ND
85-01-8	Phenanthrene	67	2000	µg/kg	SS-40: 0-2 ft BGS (11/20/2018)	9/9	--	2000	180000 (5)	N	N	BSV
108-95-2	Phenol	13 J	13 J	µg/kg	SS-39: 0-2 ft BGS (11/1/2017)	1/9	9.1 - 120	13 J	1900000	N	N	BSV
129-00-0	Pyrene	270	5200	µg/kg	SS-37: 0-2 ft BGS (11/20/2018)	9/9	--	5200	180000	N	N	BSV
	Metals											
7429-90-5	**Aluminum**	**3000**	**8400 J**	**mg/kg**	**SS-39: 0-2 ft BGS (11/1/2017)**	**9/9**	**--**	**8400 J**	**7700**	**N**	**Y**	**ASV**
7440-36-0	Antimony	0.14 J	0.84 J	mg/kg	SS-39: 0-2 ft BGS (11/1/2017)	8/9	7.2	0.84 J	3.1	N	N	BSV
7440-38-2	**Arsenic**	**3.6**	**29**	**mg/kg**	**SS-39: 0-2 ft BGS (11/1/2017)**	**9/9**	**--**	**29**	**0.68**	**C**	**Y**	**ASV**
7440-39-3	Barium	42	170 J	mg/kg	SS-39: 0-2 ft BGS (11/1/2017)	9/9	--	170 J	1500	N	N	BSV
7440-41-7	Beryllium	0.24 J	2.5	mg/kg	SS-39: 0-2 ft BGS (11/1/2017)	9/9	--	2.5	16	N	N	BSV
7440-43-9	Cadmium	0.23	2.2	mg/kg	SS-37: 0-2 ft BGS (11/20/2018)	9/9	--	2.2	7.1	N	N	BSV
7440-70-2	Calcium	45000	190000	mg/kg	SS-44: 0.08-1 ft BGS (11/27/2018)	9/9	--	190000	--		N	NAT
16065-83-1	Chromium III (trivalent)	6.7	14	mg/kg	SS-42: 0-0.67 ft BGS (11/27/2018)	9/9	--	14	12000	N	N	BSV

Table 1

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU01 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU01 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Metals (cont.'d)											
18540-29-9	**Chromium VI (hexavalent)**	**0.31 J**	**2.3**	**mg/kg**	**SS-39: 0-2 ft BGS (11/1/2017)**	**4/9**	**0.27 - 1.5**	**2.3**	**0.3**	**C**	**Y**	**ASV**
7440-48-4	**Cobalt**	**2.7**	**9.6**	**mg/kg**	**SS-39: 0-2 ft BGS (11/1/2017)**	**9/9**	**--**	**9.6**	**2.3**	**N**	**Y**	**ASV**
7440-50-8	Copper	12.6	44	mg/kg	SS-39: 0-2 ft BGS (11/1/2017)	9/9	--	44	310	N	N	BSV
57-12-5	Cyanide (total)	ND	ND	mg/kg	--	0/9	0.21 - 0.64	N/A	2.3	N	N	ND
7439-89-6	**Iron**	**7000**	**16000**	**mg/kg**	**SS-37: 0-2 ft BGS (11/20/2018)**	**9/9**	**--**	**16000**	**5500**	**N**	**Y**	**ASV**
7439-92-1	Lead	18.4 J	51 J	mg/kg	SS-39: 0-2 ft BGS (11/1/2017)	9/9	--	51 J	400	C	N	BSV
7439-92-1	Lead - coarse fraction	24	62	mg/kg	SS-44: 0.08-1 ft BGS (11/27/2018)	2/2	--	62	400	C	N	BSV
7439-92-1	Lead - fine fraction	48	100	mg/kg	SS-44: 0.08-1 ft BGS (11/27/2018)	2/2	--	100	400	C	N	BSV
7439-92-1	Lead - total (calculated by fine/coarse fraction)	26	70	mg/kg	SS-44: 0.08-1 ft BGS (11/27/2018)	2/2	--	70	400	C	N	BSV
7439-95-4	Magnesium	18000	47000	mg/kg	SS-38: 0-2 ft BGS (11/20/2018)	9/9	--	47000	--		N	NAT
7439-96-5	**Manganese**	**270**	**624 J**	**mg/kg**	**TT-16: 2- ft BGS (9/30/2008)**	**9/9**	**--**	**624 J**	**180**	**N**	**Y**	**ASV**
7439-97-6	Mercury	0.035 J	0.27	mg/kg	SS-39: 0-2 ft BGS (11/1/2017)	9/9	--	0.27	1.1	N	N	BSV
7440-02-0	Nickel	7.7 J	25 J	mg/kg	SS-39: 0-2 ft BGS (11/1/2017)	9/9	--	25 J	150	N	N	BSV
7440-09-7	Potassium	450 J	1200	mg/kg	SS-39: 0-2 ft BGS (11/1/2017)	9/9	--	1200	--		N	NAT
7782-49-2	Selenium	0.60 J	3.7	mg/kg	SS-39: 0-2 ft BGS (11/1/2017)	8/9	30	3.7	39	N	N	BSV
7440-22-4	Silver	0.024 J	0.089 J	mg/kg	SS-39: 0-2 ft BGS (11/1/2017)	8/9	1.2	0.089 J	39	N	N	BSV
7440-23-5	Sodium	72 J	162 J	mg/kg	TT-16: 2- ft BGS (9/30/2008)	8/9	160 - 180	162 J	--		N	NAT
7440-28-0	**Thallium**	**0.12 J**	**0.82**	**mg/kg**	**SS-39: 0-2 ft BGS (11/1/2017)**	**8/9**	**0.14**	**0.82**	**0.078**	**N**	**Y**	**ASV**
7440-62-2	Vanadium	12	37	mg/kg	SS-39: 0-2 ft BGS (11/1/2017)	9/9	--	37	39	N	N	BSV
7440-66-6	Zinc	42	77	mg/kg	SS-39: 0-2 ft BGS (11/1/2017)	9/9	--	77	2300	N	N	BSV
	Polychlorinated Biphenyls											
12674-11-2	Aroclor-1016 (PCB-1016)	ND	ND	µg/kg	--	0/9	24 - 40	N/A	410	N	N	ND
11104-28-2	Aroclor-1221 (PCB-1221)	ND	ND	µg/kg	--	0/9	26 - 40	N/A	200	C	N	ND
11141-16-5	Aroclor-1232 (PCB-1232)	ND	ND	µg/kg	--	0/9	21 - 40	N/A	170	C	N	ND
53469-21-9	Aroclor-1242 (PCB-1242)	ND	ND	µg/kg	--	0/9	21 - 40	N/A	230	C	N	ND
12672-29-6	Aroclor-1248 (PCB-1248)	ND	ND	µg/kg	--	0/9	22 - 40	N/A	230	C	N	ND
11097-69-1	**Aroclor-1254 (PCB-1254)**	**33 J**	**180**	**µg/kg**	**SS-42: 0-0.67 ft BGS (11/27/2018)**	**2/9**	**18 - 40**	**180**	**120**	**C**	**Y**	**ASV**
11096-82-5	Aroclor-1260 (PCB-1260)	24 J	24 J	µg/kg	SS-39: 0-2 ft BGS (11/1/2017)	1/9	24 - 40	24 J	240	C	N	BSV
	Pesticides											
72-54-8	4,4'-DDD	ND	ND	µg/kg	--	0/9	1.6 - 100	N/A	190	C	N	ND
72-55-9	4,4'-DDE	ND	ND	µg/kg	--	0/9	1.6 - 100	N/A	2000	C	N	ND
50-29-3	4,4'-DDT	1.2 NJ	1.2 NJ	µg/kg	SS-44: 0.08-1 ft BGS (11/27/2018)	1/9	1.2 - 100	1.2 NJ	1900	C	N	BSV
309-00-2	Aldrin	ND	ND	µg/kg	--	0/9	0.84 - 100	N/A	39	C	N	ND
319-84-6	alpha-BHC	ND	ND	µg/kg	--	0/9	0.99 - 100	N/A	86	C	N	ND
5103-71-9	alpha-Chlordane	3.1 J	32	µg/kg	SS-45: 0.17-1.5 ft BGS (11/27/2018)	4/9	1.6 - 100	32	1700	C	N	BSV
319-85-7	beta-BHC	ND	ND	µg/kg	--	0/9	1.9 - 100	N/A	300	C	N	ND
319-86-8	delta-BHC	ND	ND	µg/kg	--	0/9	1.8 - 100	N/A	300	C	N	ND
60-57-1	Dieldrin	ND	ND	µg/kg	--	0/9	1.2 - 100	N/A	34	C	N	ND

Table 1

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU01 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU01 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Pesticides (cont.'d)											
959-98-8	Endosulfan I	2.1 NJ	2.1 NJ	µg/kg	SS-40: 0-2 ft BGS (11/20/2018)	1/9	1.3 - 100	2.1 NJ	47000	N	N	BSV
33213-65-9	Endosulfan II	ND	ND	µg/kg	--	0/9	1.6 - 100	N/A	47000	N	N	ND
1031-07-8	Endosulfan sulfate	ND	ND	µg/kg	--	0/9	1.4 - 100	N/A	47000	N	N	ND
72-20-8	Endrin	ND	ND	µg/kg	--	0/9	2.1 - 100	N/A	1900	N	N	ND
7421-93-4	Endrin aldehyde	2.1 J	2.1 J	µg/kg	SS-40: 0-2 ft BGS (11/20/2018)	1/9	1.4 - 100	2.1 J	1900	N	N	BSV
53494-70-5	Endrin ketone	ND	ND	µg/kg	--	0/9	0.97 - 100	N/A	1900	N	N	ND
58-89-9	gamma-BHC (lindane)	ND	ND	µg/kg	--	0/9	2 - 100	N/A	570	C	N	ND
5103-74-2	gamma-Chlordane	1.9 J	27 J	µg/kg	SS-45: 0.17-1.5 ft BGS (11/27/2018)	4/9	1.3 - 100	27 J	1700	C	N	BSV
76-44-8	Heptachlor	ND	ND	µg/kg	--	0/9	1.7 - 100	N/A	130	C	N	ND
1024-57-3	Heptachlor epoxide	3.8 J	3.8 J	µg/kg	SS-37: 0-2 ft BGS (11/20/2018)	1/9	1.6 - 100	3.8 J	70	C	N	BSV
72-43-5	Methoxychlor	ND	ND	µg/kg	--	0/9	7.2 - 200	N/A	32000	N	N	ND
8001-35-2	Toxaphene	ND	ND	µg/kg	--	0/9	27 - 4000	N/A	490	C	N	ND
	Herbicides											
93-76-5	2,4,5-T	ND	ND	µg/kg	--	0/3	15 - 17	N/A	63000	N	N	ND
93-72-1	2,4,5-TP (Silvex)	ND	ND	µg/kg	--	0/4	16 - 24	N/A	51000	N	N	ND
94-75-7	2,4-Dichlorophenoxyacetic acid (2,4-D)	ND	ND	µg/kg	--	0/4	55 - 96	N/A	70000	N	N	ND
	Asbestos											
1332-21-4	Asbestos	ND	ND	%	--	0/3	0.25	N/A	--		N	ND

Notes:

(1) Minimum/maximum detected concentration.
(2) Based on data collected from sampling locations: SS-37, SS-38, SS-39, SS-40, SS-41, SS-42, SS-43, SS-44, SS-45, SS-122, SS-124, SS-153-AS, SS-154-AS, SS-155-AS, TT-16.
(3) Regional Screening Level (RSL) Summary Table (TR = 1E-06, HI = 0.1) , Residential Soil, November 2018.
(4) Rationale Codes
Selection Reason: Maximum detected above Screening Value (ASV)
Analyte Detected and no Screening Value available (AD)
Deletion Reason: Maximum detected below Screening Value (BSV)
Naturally Occurring (NAT)
(5) No screening value available, surrogate screening value implemented as follows:

Chemical	Surrogate
1,3-dichlorobenzene	1,2-dichlorobenzene
methyl cyclohexane	cyclohexane
3&4-methylphenol	3-methylphenol
acenaphthylene	acenaphthene
benzo(g,h,i)perylene	pyrene
phenanthrene	pyrene
dimethylphthalate	diethylphthalate

Defintions:

-- = Not Available
N = Noncarcinogen
C = Carcinogen
Y = Yes
N = No
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.

Table 2

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU02 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU02 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Volatile Organic Compounds											
71-55-6	1,1,1-Trichloroethane	ND	ND	µg/kg	--	0/5	0.76 - 0.88	N/A	810000	N	N	ND
79-34-5	1,1,2,2-Tetrachloroethane	ND	ND	µg/kg	--	0/5	1.3 - 1.5	N/A	600	C	N	ND
79-00-5	1,1,2-Trichloroethane	ND	ND	µg/kg	--	0/5	1.1 - 1.2	N/A	150	N	N	ND
75-34-3	1,1-Dichloroethane	ND	ND	µg/kg	--	0/5	0.65 - 0.75	N/A	3.6	C	N	ND
75-35-4	1,1-Dichloroethene	ND	ND	µg/kg	--	0/5	0.84 - 0.97	N/A	23000	N	N	ND
120-82-1	1,2,4-Trichlorobenzene	ND	ND	µg/kg	--	0/5	0.53 - 0.62	N/A	5800	N	N	ND
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	ND	µg/kg	--	0/5	3.4 - 3.9	N/A	5.3	C	N	ND
106-93-4	1,2-Dibromoethane (Ethylene dibromide)	ND	ND	µg/kg	--	0/5	0.72 - 0.83	N/A	36	C	N	ND
95-50-1	1,2-Dichlorobenzene	ND	ND	µg/kg	--	0/5	1 - 1.2	N/A	180000	N	N	ND
107-06-2	1,2-Dichloroethane	ND	ND	µg/kg	--	0/5	0.72 - 0.83	N/A	460	C	N	ND
78-87-5	1,2-Dichloropropane	ND	ND	µg/kg	--	0/5	0.79 - 0.92	N/A	1600	N	N	ND
541-73-1	1,3-Dichlorobenzene	ND	ND	µg/kg	--	0/5	0.76 - 0.88	N/A	180000 (5)	N	N	ND
106-46-7	1,4-Dichlorobenzene	ND	ND	µg/kg	--	0/5	0.82 - 0.95	N/A	2600	C	N	ND
78-93-3	2-Butanone (Methyl ethyl ketone) (MEK)	ND	ND	µg/kg	--	0/5	3.3 - 3.8	N/A	2700000	N	N	ND
591-78-6	2-Hexanone	ND	ND	µg/kg	--	0/5	3.8 - 4.4	N/A	20000	N	N	ND
108-10-1	4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ND	ND	µg/kg	--	0/5	3.5 - 4	N/A	3300000	N	N	ND
67-64-1	Acetone	ND	ND	µg/kg	--	0/5	20 - 23	N/A	6100000	N	N	ND
71-43-2	Benzene	ND	ND	µg/kg	--	0/5	0.65 - 0.75	N/A	1200	C	N	ND
75-27-4	Bromodichloromethane	ND	ND	µg/kg	--	0/5	0.63 - 0.73	N/A	290	C	N	ND
75-25-2	Bromoform	ND	ND	µg/kg	--	0/5	2.2 - 2.6	N/A	19000	C	N	ND
74-83-9	Bromomethane (Methyl bromide)	ND	ND	µg/kg	--	0/5	0.92 - 1.1	N/A	680	N	N	ND
75-15-0	Carbon disulfide	ND	ND	µg/kg	--	0/5	1.1 - 1.3	N/A	77000	N	N	ND
56-23-5	Carbon tetrachloride	ND	ND	µg/kg	--	0/5	3 - 3.5	N/A	650	C	N	ND
108-90-7	Chlorobenzene	ND	ND	µg/kg	--	0/5	0.85 - 0.99	N/A	28000	N	N	ND
75-00-3	Chloroethane	ND	ND	µg/kg	--	0/5	1.1 - 1.3	N/A	1400000	N	N	ND
67-66-3	Chloroform (Trichloromethane)	ND	ND	µg/kg	--	0/5	0.73 - 0.85	N/A	320	C	N	ND
74-87-3	Chloromethane (Methyl chloride)	ND	ND	µg/kg	--	0/5	0.97 - 1.1	N/A	11000	N	N	ND
156-59-2	cis-1,2-Dichloroethene	ND	ND	µg/kg	--	0/5	0.61 - 0.7	N/A	16000	N	N	ND
10061-01-5	cis-1,3-Dichloropropene	ND	ND	µg/kg	--	0/5	1.3 - 1.5	N/A	1800	C	N	ND
110-82-7	Cyclohexane	ND	ND	µg/kg	--	0/5	1.3 - 1.5	N/A	650000	N	N	ND
124-48-1	Dibromochloromethane	ND	ND	µg/kg	--	0/5	2.6 - 3	N/A	8300	C	N	ND
75-71-8	Dichlorodifluoromethane (CFC-12)	ND	ND	µg/kg	--	0/5	0.88 - 1	N/A	8700	N	N	ND
100-41-4	Ethylbenzene	ND	ND	µg/kg	--	0/5	0.98 - 1.1	N/A	5800	C	N	ND
98-82-8	Isopropyl benzene	ND	ND	µg/kg	--	0/5	0.78 - 0.9	N/A	190000	N	N	ND
79-20-9	Methyl acetate	ND	ND	µg/kg	--	0/5	3.2 - 3.7	N/A	7800000	N	N	ND
108-87-2	Methyl cyclohexane	ND	ND	µg/kg	--	0/5	1.1 - 1.3	N/A	650000 (5)	N	N	ND
1634-04-4	Methyl tert butyl ether (MTBE)	ND	ND	µg/kg	--	0/5	0.76 - 0.88	N/A	47000	C	N	ND
75-09-2	Methylene chloride	ND	ND	µg/kg	--	0/5	11 - 13	N/A	35000	N	N	ND
100-42-5	Styrene	ND	ND	µg/kg	--	0/5	1.1 - 1.2	N/A	600000	N	N	ND
127-18-4	Tetrachloroethene	ND	ND	µg/kg	--	0/5	0.68 - 0.79	N/A	8100	N	N	ND
108-88-3	Toluene	ND	ND	µg/kg	--	0/5	0.72 - 0.83	N/A	490000	N	N	ND
156-60-5	trans-1,2-Dichloroethene	ND	ND	µg/kg	--	0/5	0.43 - 0.5	N/A	160000	N	N	ND

Table 2

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU02 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU02 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Volatile Organic Compounds (cont.'d)											
10061-02-6	trans-1,3-Dichloropropene	ND	ND	µg/kg	--	0/5	0.96 - 1.1	N/A	1800	C	N	ND
79-01-6	Trichloroethene	ND	ND	µg/kg	--	0/5	0.59 - 0.68	N/A	410	N	N	ND
75-69-4	Trichlorofluoromethane (CFC-11)	ND	ND	µg/kg	--	0/5	1 - 1.2	N/A	2300000	N	N	ND
76-13-1	Trifluorotrichloroethane (CFC-113)	ND	ND	µg/kg	--	0/5	1.2 - 1.4	N/A	670000	N	N	ND
75-01-4	Vinyl chloride	ND	ND	µg/kg	--	0/5	0.78 - 0.9	N/A	59	C	N	ND
1330-20-7	Xylenes (total)	ND	ND	µg/kg	--	0/5	1.5 - 1.7	N/A	58000	N	N	ND
	Semi-Volatiles Organic Compounds											
108-60-1	2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ND	ND	µg/kg	--	0/5	12 - 13	N/A	310000	N	N	ND
95-95-4	2,4,5-Trichlorophenol	ND	ND	µg/kg	--	0/5	81 - 88	N/A	630000	N	N	ND
88-06-2	2,4,6-Trichlorophenol	ND	ND	µg/kg	--	0/5	75 - 82	N/A	6300	N	N	ND
120-83-2	2,4-Dichlorophenol	ND	ND	µg/kg	--	0/5	51 - 56	N/A	19000	N	N	ND
105-67-9	2,4-Dimethylphenol	ND	ND	µg/kg	--	0/5	47 - 51	N/A	130000	N	N	ND
51-28-5	2,4-Dinitrophenol	ND	ND	µg/kg	--	0/5	170 - 180	N/A	13000	N	N	ND
121-14-2	2,4-Dinitrotoluene	ND	ND	µg/kg	--	0/5	72 - 79	N/A	1700	C	N	ND
606-20-2	2,6-Dinitrotoluene	ND	ND	µg/kg	--	0/5	65 - 72	N/A	360	C	N	ND
91-58-7	2-Chloronaphthalene	ND	ND	µg/kg	--	0/5	16 - 18	N/A	480000	N	N	ND
95-57-8	2-Chlorophenol	ND	ND	µg/kg	--	0/5	12 - 13	N/A	39000	N	N	ND
91-57-6	2-Methylnaphthalene	ND	ND	µg/kg	--	0/5	2.3 - 2.5	N/A	240000	N	N	ND
95-48-7	2-Methylphenol	ND	ND	µg/kg	--	0/5	36 - 40	N/A	320000	N	N	ND
88-74-4	2-Nitroaniline	ND	ND	µg/kg	--	0/5	47 - 51	N/A	63000	n	N	ND
88-75-5	2-Nitrophenol	ND	ND	µg/kg	--	0/5	15 - 17	N/A	--		N	ND
3/4-Cresol	3&4-Methylphenol	ND	ND	µg/kg	--	0/5	34 - 37	N/A	320000 (5)	N	N	ND
91-94-1	3,3'-Dichlorobenzidine	ND	ND	µg/kg	--	0/5	50 - 55	N/A	1200	c	N	ND
99-09-2	3-Nitroaniline	ND	ND	µg/kg	--	0/5	57 - 63	N/A	--		N	ND
534-52-1	4,6-Dinitro-2-methylphenol	ND	ND	µg/kg	--	0/5	93 - 100	N/A	510	N	N	ND
101-55-3	4-Bromophenyl phenyl ether	ND	ND	µg/kg	--	0/5	16 - 18	N/A	--		N	ND
59-50-7	4-Chloro-3-methylphenol	ND	ND	µg/kg	--	0/5	53 - 58	N/A	630000	N	N	ND
106-47-8	4-Chloroaniline	ND	ND	µg/kg	--	0/5	35 - 38	N/A	2700	C	N	ND
7005-72-3	4-Chlorophenyl phenyl ether	ND	ND	µg/kg	--	0/5	16 - 18	N/A	--		N	ND
100-01-6	4-Nitroaniline	ND	ND	µg/kg	--	0/5	70 - 77	N/A	25000	N	N	ND
100-02-7	4-Nitrophenol	ND	ND	µg/kg	--	0/5	110 - 120	N/A	--		N	ND
83-32-9	Acenaphthene	ND	ND	µg/kg	--	0/5	3.3 - 3.7	N/A	360000	N	N	ND
208-96-8	Acenaphthylene	ND	ND	µg/kg	--	0/5	4.7 - 5.1	N/A	360000 (5)	N	N	ND
98-86-2	Acetophenone	ND	ND	µg/kg	--	0/5	13 - 14	N/A	780000	N	N	ND
120-12-7	Anthracene	ND	ND	µg/kg	--	0/5	2.8 - 3.1	N/A	1800000	N	N	ND
1912-24-9	Atrazine	ND	ND	µg/kg	--	0/5	42 - 46	N/A	2400	C	N	ND
100-52-7	Benzaldehyde	ND	ND	µg/kg	--	0/5	27 - 29	N/A	170000	N	N	ND
56-55-3	Benzo(a)anthracene	9.6 J	17 J	µg/kg	SS-17: 0-2 ft BGS (11/20/2018)	3/5	4.1 - 4.2	17 J	1100	C	N	BSV
50-32-8	Benzo(a)pyrene	12 J	22	µg/kg	SS-17: 0-2 ft BGS (11/20/2018)	3/5	11	22	110	C	N	BSV
205-99-2	Benzo(b)fluoranthene	8.8 J	28	µg/kg	SS-17: 0-2 ft BGS (11/20/2018)	4/5	7.7	28	1100	C	N	BSV

Table 2

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU02 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU02 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Semi-Volatiles Organic Compounds (cont.'d)											
191-24-2	Benzo(g,h,i)perylene	8.7 J	15 J	µg/kg	SS-15: 0-2 ft BGS (11/20/2018)	3/5	8.5 - 8.7	15 J	180000 (5)	N	N	BSV
207-08-9	Benzo(k)fluoranthene	11 J	11 J	µg/kg	SS-17: 0-2 ft BGS (11/20/2018)	1/5	8.1 - 8.9	11 J	11000	C	N	BSV
92-52-4	Biphenyl (1,1-Biphenyl)	ND	ND	µg/kg	--	0/5	20 - 22	N/A	4700	N	N	ND
111-91-1	bis(2-Chloroethoxy)methane	ND	ND	µg/kg	--	0/5	14 - 15	N/A	19000	N	N	ND
111-44-4	bis(2-Chloroethyl)ether	ND	ND	µg/kg	--	0/5	14 - 15	N/A	230	C	N	ND
117-81-7	bis(2-Ethylhexyl)phthalate (DEHP)	ND	ND	µg/kg	--	0/5	60 - 65	N/A	39000	C	N	ND
85-68-7	Butyl benzylphthalate (BBP)	ND	ND	µg/kg	--	0/5	26 - 28	N/A	290000	C	N	ND
105-60-2	Caprolactam	ND	ND	µg/kg	--	0/5	88 - 96	N/A	3100000	N	N	ND
86-74-8	Carbazole	ND	ND	µg/kg	--	0/5	22 - 24	N/A	--		N	ND
218-01-9	Chrysene	17 J	20	µg/kg	SS-17: 0-2 ft BGS (11/20/2018)	3/5	1.8	20	110000	C	N	BSV
53-70-3	Dibenz(a,h)anthracene	ND	ND	µg/kg	--	0/5	8.1 - 8.9	N/A	110	C	N	ND
132-64-9	Dibenzofuran	ND	ND	µg/kg	--	0/5	15 - 17	N/A	7300	N	N	ND
84-66-2	Diethyl phthalate	ND	ND	µg/kg	--	0/5	36 - 40	N/A	5100000	N	N	ND
131-11-3	Dimethyl phthalate	ND	ND	µg/kg	--	0/5	16 - 18	N/A	5100000 (5)	N	N	ND
84-74-2	Di-n-butylphthalate (DBP)	ND	ND	µg/kg	--	0/5	26 - 28	N/A	630000	N	N	ND
117-84-0	Di-n-octyl phthalate (DnOP)	ND	ND	µg/kg	--	0/5	33 - 36	N/A	63000	N	N	ND
206-44-0	Fluoranthene	9.8 J	40	µg/kg	SS-17: 0-2 ft BGS (11/20/2018)	5/5	--	40	240000	N	N	BSV
86-73-7	Fluorene	ND	ND	µg/kg	--	0/5	3.2 - 3.5	N/A	240000	N	N	ND
118-74-1	Hexachlorobenzene	ND	ND	µg/kg	--	0/5	3.3 - 3.7	N/A	210	C	N	ND
87-68-3	Hexachlorobutadiene	ND	ND	µg/kg	--	0/5	14 - 15	N/A	1200	C	N	ND
77-47-4	Hexachlorocyclopentadiene	ND	ND	µg/kg	--	0/5	72 - 79	N/A	180	N	N	ND
67-72-1	Hexachloroethane	ND	ND	µg/kg	--	0/5	11 - 12	N/A	1800	C	N	ND
193-39-5	Indeno(1,2,3-cd)pyrene	8.8 J	8.8 J	µg/kg	SS-17: 0-2 ft BGS (11/20/2018)	1/5	8.6 - 9.4	8.8 J	1100	C	N	BSV
78-59-1	Isophorone	ND	ND	µg/kg	--	0/5	14 - 15	N/A	570000	C	N	ND
91-20-3	Naphthalene	ND	ND	µg/kg	--	0/5	2.8 - 3.1	N/A	3800	C	N	ND
98-95-3	Nitrobenzene	ND	ND	µg/kg	--	0/5	15 - 17	N/A	5100	C	N	ND
621-64-7	N-Nitrosodi-n-propylamine	ND	ND	µg/kg	--	0/5	13 - 14	N/A	78	C	N	ND
86-30-6	N-Nitrosodiphenylamine	ND	ND	µg/kg	--	0/5	14 - 15	N/A	110000	C	N	ND
87-86-5	Pentachlorophenol	ND	ND	µg/kg	--	0/5	68 - 74	N/A	1000	C	N	ND
85-01-8	Phenanthrene	4.4 J	21	µg/kg	SS-17: 0-2 ft BGS (11/20/2018)	4/5	2.7	21	180000 (5)	N	N	BSV
108-95-2	Phenol	14 J	14 J	µg/kg	SS-18: 0-2 ft BGS (11/20/2018)	1/5	9.3 - 10	14 J	1900000	N	N	BSV
129-00-0	Pyrene	9.1 J	34	µg/kg	SS-17: 0-2 ft BGS (11/20/2018)	5/5	--	34	180000	N	N	BSV
	Metals											
7429-90-5	**Aluminum**	**12000**	**17000**	**mg/kg**	**SS-15: 0-2 ft BGS (11/20/2018)**	**5/5**	**--**	**17000**	**7700**	**N**	**Y**	**ASV**
7440-36-0	Antimony	0.27 J	1.5	mg/kg	SS-14: 0-2 ft BGS (11/20/2018)	5/5	--	1.5	3.1	N	N	BSV
7440-38-2	**Arsenic**	**8.3**	**14**	**mg/kg**	**SS-17: 0-2 ft BGS (11/20/2018)**	**5/5**	**--**	**14**	**0.68**	**C**	**Y**	**ASV**
7440-39-3	Barium	90	180	mg/kg	SS-16: 0-2 ft BGS (11/20/2018)	5/5	--	180	1500	N	N	BSV
7440-41-7	Beryllium	0.51	0.67	mg/kg	SS-15: 0-2 ft BGS (11/20/2018)	5/5	--	0.67	16	N	N	BSV
7440-43-9	Cadmium	0.19 J	0.35	mg/kg	SS-15: 0-2 ft BGS (11/20/2018)	5/5	--	0.35	7.1	N	N	BSV
7440-70-2	Calcium	3600	32000	mg/kg	SS-16: 0-2 ft BGS (11/20/2018)	5/5	--	32000	--		N	NAT
16065-83-1	Chromium III (trivalent)	18	24	mg/kg	SS-15: 0-2 ft BGS (11/20/2018)	5/5	--	24	12000	N	N	BSV

Table 2

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU02 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU02 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Metals (cont.'d)											
18540-29-9	Chromium VI (hexavalent)	0.29 J	0.29 J	mg/kg	SS-14: 0-2 ft BGS (11/20/2018)	1/5	0.56 - 0.62	0.29 J	0.3	C	N	BSV
7440-48-4	**Cobalt**	**7.5**	**8.4**	**mg/kg**	**SS-17: 0-2 ft BGS (11/20/2018)**	**5/5**	**--**	**8.4**	**2.3**	**N**	**Y**	**ASV**
7440-50-8	Copper	16	26	mg/kg	SS-15: 0-2 ft BGS (11/20/2018)	5/5	--	26	310	N	N	BSV
57-12-5	Cyanide (total)	ND	ND	mg/kg	--	0/5	0.21 - 0.26	N/A	2.3	N	N	ND
7439-89-6	**Iron**	**20000**	**26000**	**mg/kg**	**SS-15: 0-2 ft BGS (11/20/2018)**	**5/5**	**--**	**26000**	**5500**	**N**	**Y**	**ASV**
7439-92-1	Lead	15	30	mg/kg	SS-15: 0-2 ft BGS (11/20/2018)	5/5	--	30	400	C	N	BSV
7439-92-1	Lead - coarse fraction	17 J	17 J	mg/kg	SS-15: 0-2 ft BGS (11/20/2018)	1/1	--	17 J	400	C	N	BSV
7439-92-1	Lead - fine fraction	25	25	mg/kg	SS-15: 0-2 ft BGS (11/20/2018)	1/1	--	25	400	C	N	BSV
7439-92-1	Lead - total (calculated by fine/coarse fraction)	18	18	mg/kg	SS-15: 0-2 ft BGS (11/20/2018)	1/1	--	18	400	C	N	BSV
7439-95-4	Magnesium	3300	17000	mg/kg	SS-16: 0-2 ft BGS (11/20/2018)	5/5	--	17000	--		N	NAT
7439-96-5	**Manganese**	**580**	**730**	**mg/kg**	**SS-14: 0-2 ft BGS (11/20/2018)**	**5/5**	**--**	**730**	**180**	**N**	**Y**	**ASV**
7439-97-6	Mercury	0.035 J	0.067 J	mg/kg	SS-15: 0-2 ft BGS (11/20/2018)	5/5	--	0.067 J	1.1	N	N	BSV
7440-02-0	Nickel	19	23	mg/kg	SS-15: 0-2 ft BGS (11/20/2018)	5/5	--	23	150	N	N	BSV
7440-09-7	Potassium	1100	1900	mg/kg	SS-15: 0-2 ft BGS (11/20/2018)	5/5	--	1900	--		N	NAT
7782-49-2	Selenium	1.1	1.6	mg/kg	SS-15: 0-2 ft BGS (11/20/2018)	5/5	--	1.6	39	N	N	BSV
7440-22-4	Silver	0.038 J	0.12 J	mg/kg	SS-15: 0-2 ft BGS (11/20/2018)	5/5	--	0.12 J	39	N	N	BSV
7440-23-5	Sodium	64 J	64 J	mg/kg	SS-16: 0-2 ft BGS (11/20/2018)	1/5	57 - 60	64 J	--		N	NAT
7440-28-0	**Thallium**	**0.20 J**	**0.26**	**mg/kg**	**SS-15: 0-2 ft BGS (11/20/2018)**	**5/5**	**--**	**0.26**	**0.078**	**N**	**Y**	**ASV**
7440-62-2	**Vanadium**	**33**	**43**	**mg/kg**	**SS-15: 0-2 ft BGS (11/20/2018)**	**5/5**	**--**	**43**	**39**	**N**	**Y**	**ASV**
7440-66-6	Zinc	55	110	mg/kg	SS-15: 0-2 ft BGS (11/20/2018)	5/5	--	110	2300	N	N	BSV
	Polychlorinated Biphenyls											
12674-11-2	Aroclor-1016 (PCB-1016)	ND	ND	µg/kg	--	0/5	25 - 28	N/A	410	N	N	ND
11104-28-2	Aroclor-1221 (PCB-1221)	ND	ND	µg/kg	--	0/5	28 - 30	N/A	200	C	N	ND
11141-16-5	Aroclor-1232 (PCB-1232)	ND	ND	µg/kg	--	0/5	26 - 29	N/A	170	C	N	ND
53469-21-9	Aroclor-1242 (PCB-1242)	ND	ND	µg/kg	--	0/5	22 - 24	N/A	230	C	N	ND
12672-29-6	Aroclor-1248 (PCB-1248)	ND	ND	µg/kg	--	0/5	28 - 30	N/A	230	C	N	ND
11097-69-1	Aroclor-1254 (PCB-1254)	ND	ND	µg/kg	--	0/5	26 - 29	N/A	120	C	N	ND
11096-82-5	Aroclor-1260 (PCB-1260)	ND	ND	µg/kg	--	0/5	25 - 28	N/A	240	C	N	ND
	Pesticides											
72-54-8	4,4'-DDD	ND	ND	µg/kg	--	0/5	1.7 - 8.6	N/A	190	C	N	ND
72-55-9	4,4'-DDE	ND	ND	µg/kg	--	0/5	1.8 - 8.8	N/A	2000	C	N	ND
50-29-3	4,4'-DDT	3.5 J	3.5 J	µg/kg	SS-15: 0-2 ft BGS (11/20/2018)	1/5	1.3 - 6.6	3.5 J	1900	C	N	BSV
309-00-2	Aldrin	ND	ND	µg/kg	--	0/5	0.9 - 4.5	N/A	39	C	N	ND
319-84-6	alpha-BHC	ND	ND	µg/kg	--	0/5	1.1 - 5.3	N/A	86	C	N	ND
5103-71-9	alpha-Chlordane	ND	ND	µg/kg	--	0/5	1.8 - 8.7	N/A	1700	C	N	ND
319-85-7	beta-BHC	ND	ND	µg/kg	--	0/5	2 - 10	N/A	300	C	N	ND
319-86-8	delta-BHC	ND	ND	µg/kg	--	0/5	2 - 9.8	N/A	300	C	N	ND
60-57-1	Dieldrin	ND	ND	µg/kg	--	0/5	1.3 - 6.4	N/A	34	C	N	ND

Table 2

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU02 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU02 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Pesticides (cont.'d)											
959-98-8	Endosulfan I	ND	ND	µg/kg	--	0/5	1.4 - 7	N/A	47000	N	N	ND
33213-65-9	Endosulfan II	ND	ND	µg/kg	--	0/5	1.7 - 8.6	N/A	47000	N	N	ND
1031-07-8	Endosulfan sulfate	ND	ND	µg/kg	--	0/5	1.5 - 7.4	N/A	47000	N	N	ND
72-20-8	Endrin	ND	ND	µg/kg	--	0/5	2.2 - 11	N/A	1900	N	N	ND
7421-93-4	Endrin aldehyde	ND	ND	µg/kg	--	0/5	1.5 - 7.6	N/A	1900	N	N	ND
53494-70-5	Endrin ketone	ND	ND	µg/kg	--	0/5	1 - 5.2	N/A	1900	N	N	ND
58-89-9	gamma-BHC (lindane)	ND	ND	µg/kg	--	0/5	2.1 - 10	N/A	570	C	N	ND
5103-74-2	gamma-Chlordane	ND	ND	µg/kg	--	0/5	1.4 - 7.1	N/A	1700	C	N	ND
76-44-8	Heptachlor	ND	ND	µg/kg	--	0/5	1.9 - 9.2	N/A	130	C	N	ND
1024-57-3	Heptachlor epoxide	ND	ND	µg/kg	--	0/5	1.7 - 8.4	N/A	70	C	N	ND
72-43-5	Methoxychlor	ND	ND	µg/kg	--	0/5	7.7 - 38	N/A	32000	N	N	ND
8001-35-2	Toxaphene	ND	ND	µg/kg	--	0/5	29 - 150	N/A	490	C	N	ND
	Herbicides											
93-76-5	2,4,5-T	ND	ND	µg/kg	--	0/2	15	N/A	63000	N	N	ND
93-72-1	2,4,5-TP (Silvex)	ND	ND	µg/kg	--	0/2	16	N/A	51000	N	N	ND
94-75-7	2,4-Dichlorophenoxyacetic acid (2,4-D)	ND	ND	µg/kg	--	0/2	56 - 58	N/A	70000	N	N	ND
	Asbestos											
1332-21-4	Asbestos	ND	ND	%	--	0/2	0.25	N/A	--		N	ND

Notes:

(1) Minimum/maximum detected concentration.
(2) Based on data collected from sampling locations: SS-14, SS-15, SS-16, SS-17, SS-18, SS-148, SS-152, SS-156-AS, SS-157-AS.
(3) Regional Screening Level (RSL) Summary Table (TR = 1E-06, HI = 0.1) , Residential Soil, November 2018.
(4) Rationale Codes

Selection Reason: Maximum detected above Screening Value (ASV)
Analyte Detected and no Screening Value available (AD)
Deletion Reason: Maximum detected below Screening Value (BSV)
Naturally Occurring (NAT)

(5) No screening value available, surrogate screening value implemented as follows:

Chemical		Surrogate
1,3-dichlorobenzene	-	1,2-dichlorobenzene
methyl cyclohexane	-	cyclohexane
3&4-methylphenol	-	3-methylphenol
acenaphthylene	-	acenaphthene
benzo(g,h,i)perylene	-	pyrene
phenanthrene	-	pyrene
dimethylphthalate	-	diethylphthalate

Defintions:

-- = Not Available
N = Noncarcinogen
C = Carcinogen
Y = Yes
N = No
J - Estimated concentration.

Table 3

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU03 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU03 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Volatile Organic Compounds											
71-55-6	1,1,1-Trichloroethane	ND	ND	µg/kg	--	0/6	0.18 - 0.78	N/A	810000	N	N	ND
79-34-5	1,1,2,2-Tetrachloroethane	ND	ND	µg/kg	--	0/6	0.21 - 1.4	N/A	600	C	N	ND
79-00-5	1,1,2-Trichloroethane	ND	ND	µg/kg	--	0/6	0.31 - 1.1	N/A	150	N	N	ND
75-34-3	1,1-Dichloroethane	ND	ND	µg/kg	--	0/6	0.26 - 0.66	N/A	3.6	C	N	ND
75-35-4	1,1-Dichloroethene	ND	ND	µg/kg	--	0/6	0.43 - 0.86	N/A	23000	N	N	ND
120-82-1	1,2,4-Trichlorobenzene	ND	ND	µg/kg	--	0/6	0.19 - 0.54	N/A	5800	N	N	ND
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	ND	µg/kg	--	0/6	0.54 - 3.4	N/A	5.3	C	N	ND
106-93-4	1,2-Dibromoethane (Ethylene dibromide)	ND	ND	µg/kg	--	0/6	0.28 - 0.73	N/A	36	C	N	ND
95-50-1	1,2-Dichlorobenzene	ND	ND	µg/kg	--	0/6	0.18 - 1.1	N/A	180000	N	N	ND
107-06-2	1,2-Dichloroethane	ND	ND	µg/kg	--	0/6	0.23 - 0.73	N/A	460	C	N	ND
78-87-5	1,2-Dichloropropane	ND	ND	µg/kg	--	0/6	0.25 - 0.81	N/A	1600	N	N	ND
541-73-1	1,3-Dichlorobenzene	ND	ND	µg/kg	--	0/6	0.23 - 0.77	N/A	180000 (5)	N	N	ND
106-46-7	1,4-Dichlorobenzene	ND	ND	µg/kg	--	0/6	0.28 - 0.84	N/A	2600	C	N	ND
78-93-3	2-Butanone (Methyl ethyl ketone) (MEK)	5.4 J	13 J	µg/kg	SS-150: 0-2 ft BGS (5/29/2018)	6/6	--	13 J	2700000	N	N	BSV
591-78-6	2-Hexanone	ND	ND	µg/kg	--	0/6	0.46 - 3.9	N/A	20000	N	N	ND
108-10-1	4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ND	ND	µg/kg	--	0/6	0.71 - 3.5	N/A	3300000	N	N	ND
67-64-1	Acetone	22	63	µg/kg	SS-150: 0-2 ft BGS (5/29/2018)	6/6	--	63	6100000	N	N	BSV
71-43-2	Benzene	ND	ND	µg/kg	--	0/6	0.26 - 0.66	N/A	1200	C	N	ND
75-27-4	Bromodichloromethane	ND	ND	µg/kg	--	0/6	0.26 - 0.64	N/A	290	C	N	ND
75-25-2	Bromoform	ND	ND	µg/kg	--	0/6	0.32 - 2.3	N/A	19000	C	N	ND
74-83-9	Bromomethane (Methyl bromide)	ND	ND	µg/kg	--	0/6	0.47 - 0.94	N/A	680	N	N	ND
75-15-0	Carbon disulfide	ND	ND	µg/kg	--	0/6	0.17 - 1.1	N/A	77000	N	N	ND
56-23-5	Carbon tetrachloride	ND	ND	µg/kg	--	0/6	0.2 - 3.1	N/A	650	C	N	ND
108-90-7	Chlorobenzene	ND	ND	µg/kg	--	0/6	0.26 - 0.87	N/A	28000	N	N	ND
75-00-3	Chloroethane	ND	ND	µg/kg	--	0/6	0.3 - 1.2	N/A	1400000	N	N	ND
67-66-3	Chloroform (Trichloromethane)	ND	ND	µg/kg	--	0/6	0.18 - 0.75	N/A	320	C	N	ND
74-87-3	Chloromethane (Methyl chloride)	ND	ND	µg/kg	--	0/6	0.3 - 0.99	N/A	11000	N	N	ND
156-59-2	cis-1,2-Dichloroethene	0.47 J	0.47 J	µg/kg	SS-153: 0-2 ft BGS (5/17/2018)	1/6	0.23 - 0.62	0.47 J	16000	N	N	BSV
10061-01-5	cis-1,3-Dichloropropene	ND	ND	µg/kg	--	0/6	0.21 - 1.4	N/A	1800	C	N	ND
110-82-7	Cyclohexane	ND	ND	µg/kg	--	0/6	0.17 - 1.3	N/A	650000	N	N	ND
124-48-1	Dibromochloromethane	ND	ND	µg/kg	--	0/6	0.24 - 2.6	N/A	8300	C	N	ND
75-71-8	Dichlorodifluoromethane (CFC-12)	ND	ND	µg/kg	--	0/6	0.28 - 0.89	N/A	8700	N	N	ND
100-41-4	Ethylbenzene	ND	ND	µg/kg	--	0/6	0.22 - 0.99	N/A	5800	C	N	ND
98-82-8	Isopropyl benzene	ND	ND	µg/kg	--	0/6	0.16 - 0.79	N/A	190000	N	N	ND
79-20-9	Methyl acetate	ND	ND	µg/kg	--	0/6	0.93 - 3.2	N/A	7800000	N	N	ND
108-87-2	Methyl cyclohexane	ND	ND	µg/kg	--	0/6	0.18 - 1.2	N/A	650000 (5)	N	N	ND
1634-04-4	Methyl tert butyl ether (MTBE)	ND	ND	µg/kg	--	0/6	0.22 - 0.78	N/A	47000	C	N	ND
75-09-2	Methylene chloride	ND	ND	µg/kg	--	0/6	0.19 - 11	N/A	35000	N	N	ND
100-42-5	Styrene	ND	ND	µg/kg	--	0/6	0.22 - 1.1	N/A	600000	N	N	ND
127-18-4	Tetrachloroethene	ND	ND	µg/kg	--	0/6	0.3 - 0.69	N/A	8100	N	N	ND
108-88-3	Toluene	ND	ND	µg/kg	--	0/6	0.27 - 0.73	N/A	490000	N	N	ND
156-60-5	trans-1,2-Dichloroethene	ND	ND	µg/kg	--	0/6	0.3 - 0.44	N/A	160000	N	N	ND

Table 3

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU03 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU03 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Volatile Organic Compounds (cont.'d)											
10061-02-6	trans-1,3-Dichloropropene	ND	ND	µg/kg	--	0/6	0.17 - 0.98	N/A	1800	C	N	ND
79-01-6	Trichloroethene	ND	ND	µg/kg	--	0/6	0.33 - 0.6	N/A	410	N	N	ND
75-69-4	Trichlorofluoromethane (CFC-11)	ND	ND	µg/kg	--	0/6	0.19 - 1	N/A	2300000	N	N	ND
76-13-1	Trifluorotrichloroethane (CFC-113)	ND	ND	µg/kg	--	0/6	0.39 - 1.2	N/A	670000	N	N	ND
75-01-4	Vinyl chloride	ND	ND	µg/kg	--	0/6	0.22 - 0.79	N/A	59	C	N	ND
1330-20-7	Xylenes (total)	ND	ND	µg/kg	--	0/6	0.32 - 1.5	N/A	58000	N	N	ND
	Semi-Volatiles Organic Compounds											
108-60-1	2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ND	ND	µg/kg	--	0/6	11 - 4400	N/A	310000	N	N	ND
95-95-4	2,4,5-Trichlorophenol	ND	ND	µg/kg	--	0/6	78 - 30000	N/A	630000	N	N	ND
88-06-2	2,4,6-Trichlorophenol	ND	ND	µg/kg	--	0/6	72 - 28000	N/A	6300	N	N	ND
120-83-2	2,4-Dichlorophenol	ND	ND	µg/kg	--	0/6	49 - 19000	N/A	19000	N	N	ND
105-67-9	2,4-Dimethylphenol	ND	ND	µg/kg	--	0/6	45 - 18000	N/A	130000	N	N	ND
51-28-5	2,4-Dinitrophenol	ND	ND	µg/kg	--	0/5	160 - 63000	N/A	13000	N	N	ND
121-14-2	2,4-Dinitrotoluene	ND	ND	µg/kg	--	0/6	70 - 27000	N/A	1700	C	N	ND
606-20-2	2,6-Dinitrotoluene	ND	ND	µg/kg	--	0/6	63 - 25000	N/A	360	C	N	ND
91-58-7	2-Chloronaphthalene	ND	ND	µg/kg	--	0/6	16 - 6200	N/A	480000	N	N	ND
95-57-8	2-Chlorophenol	ND	ND	µg/kg	--	0/6	11 - 4400	N/A	39000	N	N	ND
91-57-6	2-Methylnaphthalene	8.1	6300	µg/kg	SS-146: 0-2 ft BGS (5/29/2018)	5/6	0.56	6300	240000	N	N	BSV
95-48-7	2-Methylphenol	ND	ND	µg/kg	--	0/6	35 - 14000	N/A	320000	N	N	ND
88-74-4	2-Nitroaniline	ND	ND	µg/kg	--	0/6	45 - 18000	N/A	63000	n	N	ND
88-75-5	2-Nitrophenol	ND	ND	µg/kg	--	0/6	15 - 5700	N/A	--		N	ND
3/4-Cresol	3&4-Methylphenol	ND	ND	µg/kg	--	0/6	33 - 13000	N/A	320000 (5)	N	N	ND
91-94-1	3,3'-Dichlorobenzidine	ND	ND	µg/kg	--	0/6	48 - 19000	N/A	1200	c	N	ND
99-09-2	3-Nitroaniline	ND	ND	µg/kg	--	0/6	55 - 22000	N/A	--		N	ND
106-44-5	4-Methylphenol	ND	ND	µg/kg	--	0/0	--	N/A	630000	N	N	ND
534-52-1	4,6-Dinitro-2-methylphenol	ND	ND	µg/kg	--	0/5	90 - 35000	N/A	510	N	N	ND
101-55-3	4-Bromophenyl phenyl ether	ND	ND	µg/kg	--	0/6	16 - 6200	N/A	--		N	ND
59-50-7	4-Chloro-3-methylphenol	ND	ND	µg/kg	--	0/6	51 - 20000	N/A	630000	N	N	ND
106-47-8	4-Chloroaniline	ND	ND	µg/kg	--	0/6	34 - 13000	N/A	2700	C	N	ND
7005-72-3	4-Chlorophenyl phenyl ether	ND	ND	µg/kg	--	0/6	16 - 6200	N/A	--		N	ND
100-01-6	4-Nitroaniline	ND	ND	µg/kg	--	0/6	67 - 26000	N/A	25000	N	N	ND
100-02-7	4-Nitrophenol	ND	ND	µg/kg	--	0/6	110 - 42000	N/A	--		N	ND
83-32-9	Acenaphthene	5.0 J	54000	µg/kg	SS-146: 0-2 ft BGS (5/29/2018)	4/6	0.85 - 8	54000	360000	N	N	BSV
208-96-8	Acenaphthylene	6.1 J	79	µg/kg	SS-149: 0-2 ft BGS (5/29/2018)	3/6	0.39 - 150	79	360000 (5)	N	N	BSV
98-86-2	Acetophenone	ND	ND	µg/kg	--	0/6	12 - 4900	N/A	780000	N	N	ND
120-12-7	Anthracene	11	120000	µg/kg	SS-146: 0-2 ft BGS (5/29/2018)	6/6	--	120000	1800000	N	N	BSV
1912-24-9	Atrazine	ND	ND	µg/kg	--	0/6	40 - 16000	N/A	2400	C	N	ND
100-52-7	Benzaldehyde	ND	ND	µg/kg	--	0/6	26 - 10000	N/A	170000	N	N	ND
56-55-3	**Benzo(a)anthracene**	**49**	**260000**	**µg/kg**	**SS-146: 0-2 ft BGS (5/29/2018)**	**6/6**	**--**	**260000**	**1100**	**C**	**Y**	**ASV**
50-32-8	**Benzo(a)pyrene**	**43**	**270000**	**µg/kg**	**SS-146: 0-2 ft BGS (5/29/2018)**	**6/6**	**--**	**270000**	**110**	**C**	**Y**	**ASV**
205-99-2	**Benzo(b)fluoranthene**	**67**	**330000**	**µg/kg**	**SS-146: 0-2 ft BGS (5/29/2018)**	**6/6**	**--**	**330000**	**1100**	**C**	**Y**	**ASV**

Table 3

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU03 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU03 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Semi-Volatiles Organic Compounds (cont.'d)											
191-24-2	Benzo(g,h,i)perylene	41	120000	µg/kg	SS-146: 0-2 ft BGS (5/29/2018)	6/6	--	120000	180000 (5)	N	N	BSV
207-08-9	**Benzo(k)fluoranthene**	**27**	**130000**	**µg/kg**	**SS-146: 0-2 ft BGS (5/29/2018)**	**6/6**	**--**	**130000**	**11000**	**C**	**Y**	**ASV**
92-52-4	Biphenyl (1,1-Biphenyl)	ND	ND	µg/kg	--	0/6	19 - 7500	N/A	4700	N	N	ND
111-91-1	bis(2-Chloroethoxy)methane	ND	ND	µg/kg	--	0/6	13 - 5300	N/A	19000	N	N	ND
111-44-4	bis(2-Chloroethyl)ether	ND	ND	µg/kg	--	0/6	13 - 5300	N/A	230	C	N	ND
117-81-7	bis(2-Ethylhexyl)phthalate (DEHP)	620 J	620 J	µg/kg	SS-147: 0-2 ft BGS (5/29/2018)	1/6	57 - 23000	620 J	39000	C	N	BSV
85-68-7	Butyl benzylphthalate (BBP)	ND	ND	µg/kg	--	0/6	25 - 9700	N/A	290000	C	N	ND
105-60-2	Caprolactam	ND	ND	µg/kg	--	0/6	84 - 33000	N/A	3100000	N	N	ND
86-74-8	**Carbazole**	**160 J**	**92000**	**µg/kg**	**SS-146: 0-2 ft BGS (5/29/2018)**	**2/6**	**21 - 200**	**92000**	**--**		**Y**	**AD**
218-01-9	**Chrysene**	**57**	**250000**	**µg/kg**	**SS-146: 0-2 ft BGS (5/29/2018)**	**6/6**	**--**	**250000**	**110000**	**C**	**Y**	**ASV**
53-70-3	**Dibenz(a,h)anthracene**	**9.3**	**39000**	**µg/kg**	**SS-146: 0-2 ft BGS (5/29/2018)**	**4/6**	**0.74 - 7**	**39000**	**110**	**C**	**Y**	**ASV**
132-64-9	**Dibenzofuran**	**72 J**	**30000**	**µg/kg**	**SS-146: 0-2 ft BGS (5/29/2018)**	**2/6**	**15 - 140**	**30000**	**7300**	**N**	**Y**	**ASV**
84-66-2	Diethyl phthalate	ND	ND	µg/kg	--	0/6	35 - 14000	N/A	5100000	N	N	ND
131-11-3	Dimethyl phthalate	ND	ND	µg/kg	--	0/6	16 - 6200	N/A	5100000 (5)	N	N	ND
84-74-2	Di-n-butylphthalate (DBP)	25 J	25 J	µg/kg	SS-151: 0-2 ft BGS (5/16/2018)	1/6	25 - 9700	25 J	630000	N	N	BSV
117-84-0	Di-n-octyl phthalate (DnOP)	ND	ND	µg/kg	--	0/6	31 - 12000	N/A	63000	N	N	ND
206-44-0	**Fluoranthene**	**100**	**590000**	**µg/kg**	**SS-146: 0-2 ft BGS (5/29/2018)**	**6/6**	**--**	**590000**	**240000**	**N**	**Y**	**ASV**
86-73-7	Fluorene	7.1 J	62000	µg/kg	SS-146: 0-2 ft BGS (5/29/2018)	4/6	0.6 - 5.6	62000	240000	N	N	BSV
118-74-1	Hexachlorobenzene	ND	ND	µg/kg	--	0/6	2.4 - 930	N/A	210	C	N	ND
87-68-3	Hexachlorobutadiene	ND	ND	µg/kg	--	0/6	13 - 5300	N/A	1200	C	N	ND
77-47-4	Hexachlorocyclopentadiene	ND	ND	µg/kg	--	0/5	70 - 27000	N/A	180	N	N	ND
67-72-1	Hexachloroethane	ND	ND	µg/kg	--	0/6	10 - 4000	N/A	1800	C	N	ND
193-39-5	**Indeno(1,2,3-cd)pyrene**	**30**	**120000**	**µg/kg**	**SS-146: 0-2 ft BGS (5/29/2018)**	**6/6**	**--**	**120000**	**1100**	**C**	**Y**	**ASV**
78-59-1	Isophorone	ND	ND	µg/kg	--	0/6	13 - 5300	N/A	570000	C	N	ND
91-20-3	**Naphthalene**	**8**	**18000**	**µg/kg**	**SS-146: 0-2 ft BGS (5/29/2018)**	**4/6**	**0.92 - 8.7**	**18000**	**3800**	**C**	**Y**	**ASV**
98-95-3	Nitrobenzene	ND	ND	µg/kg	--	0/6	15 - 5700	N/A	5100	C	N	ND
621-64-7	N-Nitrosodi-n-propylamine	ND	ND	µg/kg	--	0/6	12 - 4900	N/A	78	C	N	ND
86-30-6	N-Nitrosodiphenylamine	ND	ND	µg/kg	--	0/6	13 - 5300	N/A	110000	C	N	ND
87-86-5	Pentachlorophenol	ND	ND	µg/kg	--	0/6	65 - 26000	N/A	1000	C	N	ND
85-01-8	**Phenanthrene**	**48**	**480000**	**µg/kg**	**SS-146: 0-2 ft BGS (5/29/2018)**	**6/6**	**--**	**480000**	**180000 (5)**	**N**	**Y**	**ASV**
108-95-2	Phenol	ND	ND	µg/kg	--	0/6	9 - 3500	N/A	1900000	N	N	ND
129-00-0	**Pyrene**	**90**	**450000**	**µg/kg**	**SS-146: 0-2 ft BGS (5/29/2018)**	**6/6**	**--**	**450000**	**180000**	**N**	**Y**	**ASV**
	Metals											
7429-90-5	**Aluminum**	**3500 J**	**9800**	**mg/kg**	**SS-147: 0-2 ft BGS (5/29/2018)**	**6/6**	**--**	**9800**	**7700**	**N**	**Y**	**ASV**
7440-36-0	Antimony	0.13 J	1.1 J	mg/kg	SS-146: 0-2 ft BGS (5/29/2018)	5/6	0.13	1.1 J	3.1	N	N	BSV
7440-38-2	**Arsenic**	**1.8**	**9.4**	**mg/kg**	**SS-146: 0-2 ft BGS (5/29/2018)**	**6/6**	**--**	**9.4**	**0.68**	**C**	**Y**	**ASV**
7440-39-3	Barium	32	110	mg/kg	SS-147: 0-2 ft BGS (5/29/2018)	6/6	--	110	1500	N	N	BSV
7440-41-7	Beryllium	0.27	2.9	mg/kg	SS-147: 0-2 ft BGS (5/29/2018)	6/6	--	2.9	16	N	N	BSV
7440-43-9	Cadmium	0.18 J	0.67	mg/kg	SS-146: 0-2 ft BGS (5/29/2018)	6/6	--	0.67	7.1	N	N	BSV
7440-70-2	Calcium	37000	170000	mg/kg	SS-147: 0-2 ft BGS (5/29/2018)	6/6	--	170000	--		N	NAT
16065-83-1	Chromium III (trivalent)	7.5	280	mg/kg	SS-147: 0-2 ft BGS (5/29/2018)	6/6	--	280	12000	N	N	BSV

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Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU03 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU03 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Metals (cont.'d)											
18540-29-9	**Chromium VI (hexavalent)**	**0.66 J**	**0.85 J**	**mg/kg**	**SS-149: 0-2 ft BGS (5/29/2018)**	**2/6**	**0.26 - 1.4**	**0.85 J**	**0.3**	**C**	**Y**	**ASV**
7440-48-4	**Cobalt**	**1.2**	**7.9**	**mg/kg**	**SS-151: 0-2 ft BGS (5/16/2018)**	**6/6**	**--**	**7.9**	**2.3**	**N**	**Y**	**ASV**
7440-50-8	Copper	11	50	mg/kg	SS-146: 0-2 ft BGS (5/29/2018)	6/6	--	50	310	N	N	BSV
57-12-5	Cyanide (total)	ND	ND	mg/kg	--	0/6	0.18 - 0.23	N/A	2.3	N	N	ND
7439-89-6	**Iron**	**10000**	**54000**	**mg/kg**	**SS-147: 0-2 ft BGS (5/29/2018)**	**6/6**	**--**	**54000**	**5500**	**N**	**Y**	**ASV**
7439-92-1	**Lead**	**9.1**	**1000**	**mg/kg**	**SS-146: 0-2 ft BGS (5/29/2018)**	**6/6**	**--**	**1000**	**400**	**C**	**Y**	**ASV**
7439-92-1	Lead - coarse fraction	100 J	100 J	mg/kg	SS-146: 0-2 ft BGS (5/29/2018)	1/1	--	100 J	400	C	N	BSV
7439-92-1	Lead - fine fraction	210	210	mg/kg	SS-146: 0-2 ft BGS (5/29/2018)	1/1	--	210	400	C	N	BSV
7439-92-1	Lead - total (calculated by fine/coarse fraction)	110	110	mg/kg	SS-146: 0-2 ft BGS (5/29/2018)	1/1	--	110	400	C	N	BSV
7439-95-4	Magnesium	16000	65000	mg/kg	SS-147: 0-2 ft BGS (5/29/2018)	6/6	--	65000	--		N	NAT
7439-96-5	**Manganese**	**370 J**	**6000**	**mg/kg**	**SS-147: 0-2 ft BGS (5/29/2018)**	**6/6**	**--**	**6000**	**180**	**N**	**Y**	**ASV**
7439-97-6	Mercury	0.022 J	0.56	mg/kg	SS-146: 0-2 ft BGS (5/29/2018)	5/6	0.019	0.56	1.1	N	N	BSV
7440-02-0	Nickel	8.9	14	mg/kg	SS-146: 0-2 ft BGS (5/29/2018)	6/6	--	14	150	N	N	BSV
7440-09-7	Potassium	500	970	mg/kg	SS-149: 0-2 ft BGS (5/29/2018)	6/6	--	970	--		N	NAT
7782-49-2	Selenium	0.24 J	1.1	mg/kg	SS-147: 0-2 ft BGS (5/29/2018)	6/6	--	1.1	39	N	N	BSV
7440-22-4	Silver	0.021 J	0.35	mg/kg	SS-146: 0-2 ft BGS (5/29/2018)	6/6	--	0.35	39	N	N	BSV
7440-23-5	Sodium	78 J	460 J	mg/kg	SS-147: 0-2 ft BGS (5/29/2018)	6/6	--	460 J	--		N	NAT
7440-28-0	**Thallium**	**0.11 J**	**0.25**	**mg/kg**	**SS-146: 0-2 ft BGS (5/29/2018)**	**5/6**	**0.046**	**0.25**	**0.078**	**N**	**Y**	**ASV**
7440-62-2	**Vanadium**	**12**	**170**	**mg/kg**	**SS-147: 0-2 ft BGS (5/29/2018)**	**6/6**	**--**	**170**	**39**	**N**	**Y**	**ASV**
7440-66-6	Zinc	31	260	mg/kg	SS-146: 0-2 ft BGS (5/29/2018)	6/6	--	260	2300	N	N	BSV
	Polychlorinated Biphenyls											
12674-11-2	Aroclor-1016 (PCB-1016)	ND	ND	µg/kg	--	0/6	23 - 26	N/A	410	N	N	ND
11104-28-2	Aroclor-1221 (PCB-1221)	ND	ND	µg/kg	--	0/6	25 - 28	N/A	200	C	N	ND
11141-16-5	Aroclor-1232 (PCB-1232)	ND	ND	µg/kg	--	0/6	24 - 27	N/A	170	C	N	ND
53469-21-9	Aroclor-1242 (PCB-1242)	ND	ND	µg/kg	--	0/6	20 - 22	N/A	230	C	N	ND
12672-29-6	Aroclor-1248 (PCB-1248)	ND	ND	µg/kg	--	0/6	25 - 28	N/A	230	C	N	ND
11097-69-1	Aroclor-1254 (PCB-1254)	ND	ND	µg/kg	--	0/6	24 - 27	N/A	120	C	N	ND
11096-82-5	Aroclor-1260 (PCB-1260)	ND	ND	µg/kg	--	0/6	23 - 26	N/A	240	C	N	ND
	Pesticides											
72-54-8	4,4'-DDD	ND	ND	µg/kg	--	0/6	1.5 - 32	N/A	190	C	N	ND
72-55-9	4,4'-DDE	ND	ND	µg/kg	--	0/6	1.6 - 33	N/A	2000	C	N	ND
50-29-3	4,4'-DDT	1.4 J	1.4 J	µg/kg	SS-147: 0-2 ft BGS (5/29/2018)	1/6	1.2 - 24	1.4 J	1900	C	N	BSV
309-00-2	Aldrin	ND	ND	µg/kg	--	0/6	0.79 - 17	N/A	39	C	N	ND
319-84-6	alpha-BHC	ND	ND	µg/kg	--	0/6	0.94 - 20	N/A	86	C	N	ND
5103-71-9	alpha-Chlordane	ND	ND	µg/kg	--	0/6	1.5 - 32	N/A	1700	C	N	ND
319-85-7	beta-BHC	ND	ND	µg/kg	--	0/6	1.8 - 37	N/A	300	C	N	ND
319-86-8	delta-BHC	ND	ND	µg/kg	--	0/6	1.9 - 93	N/A	300	C	N	ND
60-57-1	Dieldrin	ND	ND	µg/kg	--	0/6	1.1 - 24	N/A	34	C	N	ND

Table 3

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU03 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU03 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Pesticides (cont.'d)											
959-98-8	Endosulfan I	ND	ND	µg/kg	--	0/6	1.2 - 26	N/A	47000	N	N	ND
33213-65-9	Endosulfan II	ND	ND	µg/kg	--	0/6	1.5 - 32	N/A	47000	N	N	ND
1031-07-8	Endosulfan sulfate	ND	ND	µg/kg	--	0/6	1.4 - 71	N/A	47000	N	N	ND
72-20-8	Endrin	ND	ND	µg/kg	--	0/6	2 - 41	N/A	1900	N	N	ND
7421-93-4	Endrin aldehyde	ND	ND	µg/kg	--	0/6	1.5 - 72	N/A	1900	N	N	ND
53494-70-5	Endrin ketone	ND	ND	µg/kg	--	0/6	0.92 - 19	N/A	1900	N	N	ND
58-89-9	gamma-BHC (lindane)	ND	ND	µg/kg	--	0/6	1.8 - 39	N/A	570	C	N	ND
5103-74-2	gamma-Chlordane	ND	ND	µg/kg	--	0/6	1.3 - 27	N/A	1700	C	N	ND
76-44-8	Heptachlor	ND	ND	µg/kg	--	0/6	1.6 - 34	N/A	130	C	N	ND
1024-57-3	Heptachlor epoxide	ND	ND	µg/kg	--	0/6	1.5 - 31	N/A	70	C	N	ND
72-43-5	Methoxychlor	ND	ND	µg/kg	--	0/6	6.8 - 140	N/A	32000	N	N	ND
8001-35-2	Toxaphene	ND	ND	µg/kg	--	0/6	26 - 540	N/A	490	C	N	ND

Notes:

(1) Minimum/maximum detected concentration.
(2) Based on data collected from sampling locations: SS-146, SS-147, SS-149, SS-150, SS-151, SS-153.
(3) Regional Screening Level (RSL) Summary Table (TR = 1E-06, HI = 0.1) , Residential Soil, November 2018.
(4) Rationale Codes

Selection Reason: Maximum detected above Screening Value (ASV)
Analyte Detected and no Screening Value available (AD)
Deletion Reason: Maximum detected below Screening Value (BSV)
Naturally Occurring (NAT)

(5) No screening value available, surrogate screening value implemented as follows:

Chemical		Surrogate
1,3-dichlorobenzene	-	1,2-dichlorobenzene
methyl cyclohexane	-	cyclohexane
3&4-methylphenol	-	3-methylphenol
acenaphthylene	-	acenaphthene
benzo(g,h,i)perylene	-	pyrene
phenanthrene	-	pyrene
dimethylphthalate	-	diethylphthalate

Defintions:

-- = Not Available
N = Noncarcinogen
C = Carcinogen
Y = Yes
N = No
J - Estimated concentration.

Table 4

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU03 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU03 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Volatile Organic Compounds											
71-55-6	1,1,1-Trichloroethane	ND	ND	µg/kg	--	0/14	0.18 - 26	N/A	810000	N	N	ND
79-34-5	1,1,2,2-Tetrachloroethane	ND	ND	µg/kg	--	0/13	0.21 - 22	N/A	600	C	N	ND
79-00-5	1,1,2-Trichloroethane	ND	ND	µg/kg	--	0/14	0.31 - 21	N/A	150	N	N	ND
75-34-3	1,1-Dichloroethane	ND	ND	µg/kg	--	0/14	0.26 - 29	N/A	3.6	C	N	ND
75-35-4	1,1-Dichloroethene	ND	ND	µg/kg	--	0/14	0.43 - 33	N/A	23000	N	N	ND
120-82-1	1,2,4-Trichlorobenzene	ND	ND	µg/kg	--	0/13	0.19 - 24	N/A	5800	N	N	ND
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	ND	µg/kg	--	0/13	0.54 - 44	N/A	5.3	C	N	ND
106-93-4	1,2-Dibromoethane (Ethylene dibromide)	ND	ND	µg/kg	--	0/14	0.28 - 21	N/A	36	C	N	ND
95-50-1	1,2-Dichlorobenzene	ND	ND	µg/kg	--	0/13	0.18 - 17	N/A	180000	N	N	ND
107-06-2	1,2-Dichloroethane	ND	ND	µg/kg	--	0/14	0.23 - 28	N/A	460	C	N	ND
78-87-5	1,2-Dichloropropane	ND	ND	µg/kg	--	0/14	0.25 - 28	N/A	1600	N	N	ND
541-73-1	1,3-Dichlorobenzene	ND	ND	µg/kg	--	0/13	0.23 - 35	N/A	180000 (5)	N	N	ND
106-46-7	1,4-Dichlorobenzene	23 J	23 J	µg/kg	TT-18: 5 ft BGS (10/1/2008)	1/14	0.28 - 25	23 J	2600	C	N	BSV
78-93-3	2-Butanone (Methyl ethyl ketone) (MEK)	4.3 J	13 J	µg/kg	SS-150: 0-2 ft BGS (5/29/2018)	9/14	1.1 - 46	13 J	2700000	N	N	BSV
591-78-6	2-Hexanone	ND	ND	µg/kg	--	0/14	0.46 - 79	N/A	20000	N	N	ND
108-10-1	4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ND	ND	µg/kg	--	0/14	0.71 - 37	N/A	3300000	N	N	ND
67-64-1	Acetone	22	63	µg/kg	SS-150: 0-2 ft BGS (5/29/2018)	7/14	2.7 - 130	63	6100000	N	N	BSV
71-43-2	Benzene	0.33 J	0.33 J	µg/kg	BH157-18: 12-14 ft BGS (5/17/2018)	1/14	0.26 - 22	0.33 J	1200	C	N	BSV
75-27-4	Bromodichloromethane	ND	ND	µg/kg	--	0/14	0.26 - 17	N/A	290	C	N	ND
75-25-2	Bromoform	ND	ND	µg/kg	--	0/14	0.32 - 21	N/A	19000	C	N	ND
74-83-9	Bromomethane (Methyl bromide)	ND	ND	µg/kg	--	0/14	0.47 - 26	N/A	680	N	N	ND
75-15-0	Carbon disulfide	ND	ND	µg/kg	--	0/14	0.17 - 17	N/A	77000	N	N	ND
56-23-5	Carbon tetrachloride	ND	ND	µg/kg	--	0/14	0.2 - 25	N/A	650	C	N	ND
108-90-7	Chlorobenzene	ND	ND	µg/kg	--	0/14	0.26 - 28	N/A	28000	N	N	ND
75-00-3	Chloroethane	ND	ND	µg/kg	--	0/14	0.3 - 26	N/A	1400000	N	N	ND
67-66-3	Chloroform (Trichloromethane)	ND	ND	µg/kg	--	0/14	0.18 - 22	N/A	320	C	N	ND
74-87-3	Chloromethane (Methyl chloride)	ND	ND	µg/kg	--	0/14	0.3 - 17	N/A	11000	N	N	ND
156-59-2	cis-1,2-Dichloroethene	0.47 J	0.47 J	µg/kg	SS-153: 0-2 ft BGS (5/17/2018)	1/14	0.23 - 32	0.47 J	16000	N	N	BSV
10061-01-5	cis-1,3-Dichloropropene	ND	ND	µg/kg	--	0/14	0.21 - 21	N/A	1800	C	N	ND
110-82-7	Cyclohexane	0.43 J	210 J	µg/kg	TT-18: 5 ft BGS (10/1/2008)	3/15	0.17 - 28	210 J	650000	N	N	BSV
124-48-1	Dibromochloromethane	ND	ND	µg/kg	--	0/14	0.24 - 31	N/A	8300	C	N	ND
75-71-8	Dichlorodifluoromethane (CFC-12)	ND	ND	µg/kg	--	0/14	0.28 - 20	N/A	8700	N	N	ND
100-41-4	Ethylbenzene	0.38 J	380	µg/kg	GP07-18: 12-13 ft bgs (8/1/2018)	2/14	0.22 - 4.9	380	5800	C	N	BSV
98-82-8	Isopropyl benzene	140 J	140 J	µg/kg	GP07-18: 12-13 ft bgs (8/1/2018)	1/14	0.16 - 4.9	140 J	190000	N	N	BSV
79-20-9	Methyl acetate	ND	ND	µg/kg	--	0/14	0.93 - 69	N/A	7800000	N	N	ND
108-87-2	Methyl cyclohexane	0.55 J	410 J	µg/kg	TT-18: 5 ft BGS (10/1/2008)	5/15	0.18 - 1.4	410 J	650000 (5)	N	N	BSV
1634-04-4	Methyl tert butyl ether (MTBE)	ND	ND	µg/kg	--	0/14	0.22 - 24	N/A	47000	C	N	ND
75-09-2	Methylene chloride	500 J	500 J	µg/kg	TT-18: 5- ft BGS (10/1/2008)	1/15	0.19 - 60	500 J	35000	N	N	BSV
100-42-5	Styrene	ND	ND	µg/kg	--	0/14	0.22 - 9.2	N/A	600000	N	N	ND
127-18-4	Tetrachloroethene	ND	ND	µg/kg	--	0/14	0.3 - 19	N/A	8100	N	N	ND
108-88-3	Toluene	0.92 J	430	µg/kg	GP07-18: 12-13 ft bgs (8/1/2018)	3/14	0.27 - 4.9	430	490000	N	N	BSV
156-60-5	trans-1,2-Dichloroethene	ND	ND	µg/kg	--	0/14	0.3 - 32	N/A	160000	N	N	ND

Table 4

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU03 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU03 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Volatile Organic Compounds (cont.'d)											
10061-02-6	trans-1,3-Dichloropropene	ND	ND	µg/kg	--	0/14	0.17 - 14	N/A	1800	C	N	ND
79-01-6	Trichloroethene	ND	ND	µg/kg	--	0/14	0.33 - 34	N/A	410	N	N	ND
75-69-4	Trichlorofluoromethane (CFC-11)	ND	ND	µg/kg	--	0/14	0.19 - 31	N/A	2300000	N	N	ND
76-13-1	Trifluorotrichloroethane (CFC-113)	ND	ND	µg/kg	--	0/14	0.39 - 21	N/A	670000	N	N	ND
75-01-4	Vinyl chloride	ND	ND	µg/kg	--	0/14	0.22 - 16	N/A	59	C	N	ND
1330-20-7	Xylenes (total)	0.68 J	2800	µg/kg	GP07-18: 12-13 ft bgs (8/1/2018)	3/14	0.32 - 1.8	2800	58000	N	N	BSV
	Semi-Volatiles Organic Compounds											
108-60-1	2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ND	ND	µg/kg	--	0/14	11 - 4400	N/A	310000	N	N	ND
95-95-4	2,4,5-Trichlorophenol	ND	ND	µg/kg	--	0/14	73 - 30000	N/A	630000	N	N	ND
88-06-2	2,4,6-Trichlorophenol	ND	ND	µg/kg	--	0/14	68 - 28000	N/A	6300	N	N	ND
120-83-2	2,4-Dichlorophenol	ND	ND	µg/kg	--	0/14	47 - 19000	N/A	19000	N	N	ND
105-67-9	2,4-Dimethylphenol	ND	ND	µg/kg	--	0/14	43 - 18000	N/A	130000	N	N	ND
51-28-5	2,4-Dinitrophenol	ND	ND	µg/kg	--	0/13	150 - 63000	N/A	13000	N	N	ND
121-14-2	2,4-Dinitrotoluene	ND	ND	µg/kg	--	0/14	66 - 27000	N/A	1700	C	N	ND
606-20-2	2,6-Dinitrotoluene	ND	ND	µg/kg	--	0/14	60 - 25000	N/A	360	C	N	ND
91-58-7	2-Chloronaphthalene	ND	ND	µg/kg	--	0/14	15 - 6200	N/A	480000	N	N	ND
95-57-8	2-Chlorophenol	ND	ND	µg/kg	--	0/14	11 - 4400	N/A	39000	N	N	ND
91-57-6	2-Methylnaphthalene	5.9 J	6300	µg/kg	SS-146: 0-2 ft BGS (5/29/2018)	12/14	0.53 - 0.58	6300	240000	N	N	BSV
95-48-7	2-Methylphenol	ND	ND	µg/kg	--	0/14	33 - 14000	N/A	320000	N	N	ND
88-74-4	2-Nitroaniline	ND	ND	µg/kg	--	0/14	43 - 18000	N/A	63000	n	N	ND
88-75-5	2-Nitrophenol	ND	ND	µg/kg	--	0/14	14 - 5700	N/A	--		N	ND
3/4-Cresol	3&4-Methylphenol	ND	ND	µg/kg	--	0/12	31 - 13000	N/A	320000 (5)	N	N	ND
91-94-1	3,3'-Dichlorobenzidine	ND	ND	µg/kg	--	0/14	46 - 19000	N/A	1200	c	N	ND
99-09-2	3-Nitroaniline	ND	ND	µg/kg	--	0/14	52 - 22000	N/A	--		N	ND
106-44-5	4-Methylphenol	ND	ND	µg/kg	--	0/2	210 - 270	N/A	630000	N	N	ND
534-52-1	4,6-Dinitro-2-methylphenol	ND	ND	µg/kg	--	0/13	85 - 35000	N/A	510	N	N	ND
101-55-3	4-Bromophenyl phenyl ether	ND	ND	µg/kg	--	0/14	15 - 6200	N/A	--		N	ND
59-50-7	4-Chloro-3-methylphenol	ND	ND	µg/kg	--	0/14	48 - 20000	N/A	630000	N	N	ND
106-47-8	4-Chloroaniline	ND	ND	µg/kg	--	0/14	32 - 13000	N/A	2700	C	N	ND
7005-72-3	4-Chlorophenyl phenyl ether	ND	ND	µg/kg	--	0/14	15 - 6200	N/A	--		N	ND
100-01-6	4-Nitroaniline	ND	ND	µg/kg	--	0/14	64 - 26000	N/A	25000	N	N	ND
100-02-7	4-Nitrophenol	ND	ND	µg/kg	--	0/14	100 - 42000	N/A	--		N	ND
83-32-9	Acenaphthene	5.0 J	54000	µg/kg	SS-146: 0-2 ft BGS (5/29/2018)	8/14	0.83 - 9.1	54000	360000	N	N	BSV
208-96-8	Acenaphthylene	4.9 J	1100	µg/kg	BH152-18: 9-11 ft BGS (5/29/2018)	7/14	0.37 - 150	1100	360000 (5)	N	N	BSV
98-86-2	Acetophenone	ND	ND	µg/kg	--	0/14	12 - 4900	N/A	780000	N	N	ND
120-12-7	Anthracene	4.8 J	120000	µg/kg	SS-146: 0-2 ft BGS (5/29/2018)	13/14	0.91 - 9.1	120000	1800000	N	N	BSV
1912-24-9	Atrazine	ND	ND	µg/kg	--	0/14	38 - 16000	N/A	2400	C	N	ND
100-52-7	Benzaldehyde	ND	ND	µg/kg	--	0/14	24 - 10000	N/A	170000	N	N	ND
56-55-3	**Benzo(a)anthracene**	**28 J**	**260000**	**µg/kg**	**SS-146: 0-2 ft BGS (5/29/2018)**	**13/14**	**0.73 - 9.1**	**260000**	**1100**	**C**	**Y**	**ASV**
50-32-8	**Benzo(a)pyrene**	**11 J**	**270000**	**µg/kg**	**SS-146: 0-2 ft BGS (5/29/2018)**	**13/14**	**9.1**	**270000**	**110**	**C**	**Y**	**ASV**
205-99-2	**Benzo(b)fluoranthene**	**15 J**	**330000**	**µg/kg**	**SS-146: 0-2 ft BGS (5/29/2018)**	**13/14**	**9.1**	**330000**	**1100**	**C**	**Y**	**ASV**

Table 4

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU03 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU03 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Semi-Volatiles Organic Compounds (cont.'d)											
191-24-2	Benzo(g,h,i)perylene	24 J	120000	µg/kg	SS-146: 0-2 ft BGS (5/29/2018)	13/14	0.41 - 9.1	120000	180000 (5)	N	N	BSV
207-08-9	**Benzo(k)fluoranthene**	**17 J**	**130000**	**µg/kg**	**SS-146: 0-2 ft BGS (5/29/2018)**	**12/14**	**0.74 - 9.1**	**130000**	**11000**	**C**	**Y**	**ASV**
92-52-4	Biphenyl (1,1-Biphenyl)	260 J	260 J	µg/kg	BH152-18: 9-11 ft BGS (5/29/2018)	1/14	18 - 7500	260 J	4700	N	N	BSV
111-91-1	bis(2-Chloroethoxy)methane	ND	ND	µg/kg	--	0/14	13 - 5300	N/A	19000	N	N	ND
111-44-4	bis(2-Chloroethyl)ether	ND	ND	µg/kg	--	0/14	13 - 5300	N/A	230	C	N	ND
117-81-7	bis(2-Ethylhexyl)phthalate (DEHP)	73 J	620 J	µg/kg	SS-147: 0-2 ft BGS (5/29/2018)	3/14	53 - 23000	620 J	39000	C	N	BSV
85-68-7	Butyl benzylphthalate (BBP)	ND	ND	µg/kg	--	0/14	23 - 9700	N/A	290000	C	N	ND
105-60-2	Caprolactam	ND	ND	µg/kg	--	0/14	80 - 33000	N/A	3100000	N	N	ND
86-74-8	**Carbazole**	**72 J**	**92000**	**µg/kg**	**SS-146: 0-2 ft BGS (5/29/2018)**	**4/14**	**20 - 200**	**92000**	**--**		**Y**	**AD**
218-01-9	**Chrysene**	**35 J**	**250000**	**µg/kg**	**SS-146: 0-2 ft BGS (5/29/2018)**	**13/14**	**1.3 - 9.1**	**250000**	**110000**	**C**	**Y**	**ASV**
53-70-3	**Dibenz(a,h)anthracene**	**9.3**	**39000**	**µg/kg**	**SS-146: 0-2 ft BGS (5/29/2018)**	**8/14**	**0.72 - 9.1**	**39000**	**110**	**C**	**Y**	**ASV**
132-64-9	**Dibenzofuran**	**72 J**	**30000**	**µg/kg**	**SS-146: 0-2 ft BGS (5/29/2018)**	**4/14**	**14 - 140**	**30000**	**7300**	**N**	**Y**	**ASV**
84-66-2	Diethyl phthalate	ND	ND	µg/kg	--	0/14	33 - 14000	N/A	5100000	N	N	ND
131-11-3	Dimethyl phthalate	ND	ND	µg/kg	--	0/14	15 - 6200	N/A	5100000 (5)	N	N	ND
84-74-2	Di-n-butylphthalate (DBP)	25 J	25 J	µg/kg	SS-151: 0-2 ft BGS (5/16/2018)	1/14	23 - 9700	25 J	630000	N	N	BSV
117-84-0	Di-n-octyl phthalate (DnOP)	ND	ND	µg/kg	--	0/14	30 - 12000	N/A	63000	N	N	ND
206-44-0	**Fluoranthene**	**19 J**	**590000**	**µg/kg**	**SS-146: 0-2 ft BGS (5/29/2018)**	**13/14**	**9.1**	**590000**	**240000**	**N**	**Y**	**ASV**
86-73-7	Fluorene	6.3 J	62000	µg/kg	SS-146: 0-2 ft BGS (5/29/2018)	9/14	0.58 - 9.1	62000	240000	N	N	BSV
118-74-1	Hexachlorobenzene	ND	ND	µg/kg	--	0/14	2.2 - 930	N/A	210	C	N	ND
87-68-3	Hexachlorobutadiene	ND	ND	µg/kg	--	0/14	13 - 5300	N/A	1200	C	N	ND
77-47-4	Hexachlorocyclopentadiene	ND	ND	µg/kg	--	0/13	66 - 27000	N/A	180	N	N	ND
67-72-1	Hexachloroethane	ND	ND	µg/kg	--	0/14	9.6 - 4000	N/A	1800	C	N	ND
193-39-5	**Indeno(1,2,3-cd)pyrene**	**24 J**	**120000**	**µg/kg**	**SS-146: 0-2 ft BGS (5/29/2018)**	**13/14**	**0.41 - 9.1**	**120000**	**1100**	**C**	**Y**	**ASV**
78-59-1	Isophorone	ND	ND	µg/kg	--	0/14	13 - 5300	N/A	570000	C	N	ND
91-20-3	**Naphthalene**	**5.3 J**	**18000**	**µg/kg**	**SS-146: 0-2 ft BGS (5/29/2018)**	**9/14**	**0.87 - 9.1**	**18000**	**3800**	**C**	**Y**	**ASV**
98-95-3	Nitrobenzene	ND	ND	µg/kg	--	0/14	14 - 5700	N/A	5100	C	N	ND
621-64-7	N-Nitrosodi-n-propylamine	ND	ND	µg/kg	--	0/14	12 - 4900	N/A	78	C	N	ND
86-30-6	N-Nitrosodiphenylamine	ND	ND	µg/kg	--	0/14	13 - 5300	N/A	110000	C	N	ND
87-86-5	Pentachlorophenol	ND	ND	µg/kg	--	0/14	62 - 26000	N/A	1000	C	N	ND
85-01-8	**Phenanthrene**	**7.9 J**	**480000**	**µg/kg**	**SS-146: 0-2 ft BGS (5/29/2018)**	**13/14**	**9.1**	**480000**	**180000 (5)**	**N**	**Y**	**ASV**
108-95-2	Phenol	ND	ND	µg/kg	--	0/14	8.5 - 3500	N/A	1900000	N	N	ND
129-00-0	**Pyrene**	**17 J**	**450000**	**µg/kg**	**SS-146: 0-2 ft BGS (5/29/2018)**	**13/14**	**9.1**	**450000**	**180000**	**N**	**Y**	**ASV**
	Metals											
7429-90-5	**Aluminum**	**1500 J**	**9800**	**mg/kg**	**SS-147: 0-2 ft BGS (5/29/2018)**	**14/14**	**--**	**9800**	**7700**	**N**	**Y**	**ASV**
7440-36-0	**Antimony**	**0.13 J**	**5.0 J**	**mg/kg**	**BH152-18: 9-11 ft BGS (5/29/2018)**	**11/14**	**0.12 - 6.4**	**5.0 J**	**3.1**	**N**	**Y**	**ASV**
7440-38-2	**Arsenic**	**1.8**	**17.7**	**mg/kg**	**TT-18: 5- ft BGS (10/1/2008)**	**14/14**	**--**	**17.7**	**0.68**	**C**	**Y**	**ASV**
7440-39-3	Barium	17.8 J	389	mg/kg	TT-18: 5- ft BGS (10/1/2008)	14/14	--	389	1500	N	N	BSV
7440-41-7	Beryllium	0.099 J	2.9	mg/kg	SS-147: 0-2 ft BGS (5/29/2018)	14/14	--	2.9	16	N	N	BSV
7440-43-9	**Cadmium**	**0.091 J**	**15**	**mg/kg**	**BH152-18: 9-11 ft BGS (5/29/2018)**	**13/14**	**0.68**	**15**	**7.1**	**N**	**Y**	**ASV**
7440-70-2	Calcium	5650	220000	mg/kg	BH157-18: 12-14 ft BGS (5/17/2018)	14/14	--	220000	--		N	NAT
16065-83-1	Chromium III (trivalent)	3.6	280	mg/kg	SS-147: 0-2 ft BGS (5/29/2018)	14/14	--	280	12000	N	N	BSV

Table 4

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU03 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU03 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Metals (cont.'d)											
18540-29-9	**Chromium VI (hexavalent)**	**0.31 J**	**1.7**	**mg/kg**	**TT-18: 5- ft BGS (10/1/2008)**	**6/14**	**0.25 - 1.4**	**1.7**	**0.3**	**C**	**Y**	**ASV**
7440-48-4	**Cobalt**	**1.2**	**7.9**	**mg/kg**	**SS-151: 0-2 ft BGS (5/16/2018)**	**14/14**	**--**	**7.9**	**2.3**	**N**	**Y**	**ASV**
7440-50-8	Copper	6.7	96	mg/kg	BH152-18: 9-11 ft BGS (5/29/2018)	14/14	--	96	310	N	N	BSV
57-12-5	Cyanide (total)	0.24 J	0.52 J	mg/kg	TT-18: 12- ft BGS (10/1/2008)	3/14	0.18 - 0.68	0.52 J	2.3	N	N	BSV
7439-89-6	**Iron**	**6040**	**54000**	**mg/kg**	**SS-147: 0-2 ft BGS (5/29/2018)**	**14/14**	**--**	**54000**	**5500**	**N**	**Y**	**ASV**
7439-92-1	**Lead**	**6.4 J**	**1000**	**mg/kg**	**SS-146: 0-2 ft BGS (5/29/2018)**	**14/14**	**--**	**1000**	**400**	**C**	**Y**	**ASV**
7439-92-1	Lead - coarse fraction	100 J	100 J	mg/kg	SS-146: 0-2 ft BGS (5/29/2018)	1/1	--	100 J	400	C	N	BSV
7439-92-1	Lead - fine fraction	210	210	mg/kg	SS-146: 0-2 ft BGS (5/29/2018)	1/1	--	210	400	C	N	BSV
7439-92-1	Lead - total (calculated by fine/coarse fraction)	110	110	mg/kg	SS-146: 0-2 ft BGS (5/29/2018)	1/1	--	110	400	C	N	BSV
7439-95-4	Magnesium	1290	65000	mg/kg	SS-147: 0-2 ft BGS (5/29/2018)	14/14	--	65000	--		N	NAT
7439-96-5	**Manganese**	**84.9**	**6000**	**mg/kg**	**SS-147: 0-2 ft BGS (5/29/2018)**	**14/14**	**--**	**6000**	**180**	**N**	**Y**	**ASV**
7439-97-6	Mercury	0.022 J	0.61	mg/kg	BH152-18: 9-11 ft BGS (5/29/2018)	10/14	0.018 - 0.14	0.61	1.1	N	N	BSV
7440-02-0	Nickel	7.4	28	mg/kg	BH152-18: 9-11 ft BGS (5/29/2018)	14/14	--	28	150	N	N	BSV
7440-09-7	Potassium	365 J	1200	mg/kg	BH152-18: 9-11 ft BGS (5/29/2018)	14/14	--	1200	--		N	NAT
7782-49-2	Selenium	0.24 J	3.7 J	mg/kg	TT-18: 5- ft BGS (10/1/2008)	13/14	26.6	3.7 J	39	N	N	BSV
7440-22-4	Silver	0.021 J	1.9	mg/kg	BH152-18: 9-11 ft BGS (5/29/2018)	11/14	0.021 - 1.4	1.9	39	N	N	BSV
7440-23-5	Sodium	61 J	620	mg/kg	BH152-18: 9-11 ft BGS (5/29/2018)	14/14	--	620	--		N	NAT
7440-28-0	**Thallium**	**0.083 J**	**0.54**	**mg/kg**	**TT-18: 5- ft BGS (10/1/2008)**	**12/14**	**0.046 - 0.11**	**0.54**	**0.078**	**N**	**Y**	**ASV**
7440-62-2	**Vanadium**	**5.2**	**170**	**mg/kg**	**SS-147: 0-2 ft BGS (5/29/2018)**	**14/14**	**--**	**170**	**39**	**N**	**Y**	**ASV**
7440-66-6	Zinc	10.3	1600	mg/kg	BH152-18: 9-11 ft BGS (5/29/2018)	14/14	--	1600	2300	N	N	BSV
	Polychlorinated Biphenyls											
12674-11-2	Aroclor-1016 (PCB-1016)	ND	ND	µg/kg	--	0/14	23 - 130	N/A	410	N	N	ND
11104-28-2	Aroclor-1221 (PCB-1221)	ND	ND	µg/kg	--	0/14	25 - 140	N/A	200	C	N	ND
11141-16-5	Aroclor-1232 (PCB-1232)	ND	ND	µg/kg	--	0/14	24 - 130	N/A	170	C	N	ND
53469-21-9	**Aroclor-1242 (PCB-1242)**	**980**	**980**	**µg/kg**	**BH153-18: 13-15 ft BGS (5/29/2018)**	**1/14**	**20 - 45**	**980**	**230**	**C**	**Y**	**ASV**
12672-29-6	Aroclor-1248 (PCB-1248)	ND	ND	µg/kg	--	0/14	25 - 140	N/A	230	C	N	ND
11097-69-1	**Aroclor-1254 (PCB-1254)**	**70**	**1300**	**µg/kg**	**BH153-18: 13-15 ft BGS (5/29/2018)**	**2/14**	**24 - 45**	**1300**	**120**	**C**	**Y**	**ASV**
11096-82-5	Aroclor-1260 (PCB-1260)	ND	ND	µg/kg	--	0/14	23 - 130	N/A	240	C	N	ND
	Pesticides											
72-54-8	4,4'-DDD	2.8 J	2.8 J	µg/kg	BH152-18: 9-11 ft BGS (5/29/2018)	1/14	1.5 - 36	2.8 J	190	C	N	BSV
72-55-9	4,4'-DDE	2.1 J	28	µg/kg	BH153-18: 13-15 ft BGS (5/29/2018)	2/14	1.6 - 36	28	2000	C	N	BSV
50-29-3	4,4'-DDT	1.4 J	1.4 J	µg/kg	SS-147: 0-2 ft BGS (5/29/2018)	1/14	1.2 - 36	1.4 J	1900	C	N	BSV
309-00-2	Aldrin	ND	ND	µg/kg	--	0/14	0.79 - 36	N/A	39	C	N	ND
319-84-6	alpha-BHC	ND	ND	µg/kg	--	0/14	0.94 - 36	N/A	86	C	N	ND
5103-71-9	alpha-Chlordane	4.0 J	36	µg/kg	BH153-18: 13-15 ft BGS (5/29/2018)	2/14	1.5 - 36	36	1700	C	N	BSV
319-85-7	beta-BHC	ND	ND	µg/kg	--	0/14	1.8 - 37	N/A	300	C	N	ND
319-86-8	delta-BHC	ND	ND	µg/kg	--	0/14	1.8 - 100	N/A	300	C	N	ND
60-57-1	Dieldrin	2.0 NJ	2.0 NJ	µg/kg	BH153-18: 13-15 ft BGS (5/29/2018)	1/14	1.1 - 36	2.0 NJ	34	C	N	BSV

Table 4

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU03 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU03 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Pesticides (cont.'d)											
959-98-8	Endosulfan I	ND	ND	µg/kg	--	0/14	1.2 - 36	N/A	47000	N	N	ND
33213-65-9	Endosulfan II	4.3 NJ	4.3 NJ	µg/kg	BH153-18: 13-15 ft BGS (5/29/2018)	1/14	1.5 - 36	4.3 NJ	47000	N	N	BSV
1031-07-8	Endosulfan sulfate	ND	ND	µg/kg	--	0/14	1.3 - 78	N/A	47000	N	N	ND
72-20-8	Endrin	ND	ND	µg/kg	--	0/14	2 - 41	N/A	1900	N	N	ND
7421-93-4	Endrin aldehyde	ND	ND	µg/kg	--	0/14	1.4 - 79	N/A	1900	N	N	ND
53494-70-5	Endrin ketone	ND	ND	µg/kg	--	0/14	0.92 - 36	N/A	1900	N	N	ND
58-89-9	gamma-BHC (lindane)	3.8 J	3.8 J	µg/kg	BH153-18: 13-15 ft BGS (5/29/2018)	1/14	1.8 - 39	3.8 J	570	C	N	BSV
5103-74-2	gamma-Chlordane	3.6 J	30 J	µg/kg	BH153-18: 13-15 ft BGS (5/29/2018)	2/14	1.3 - 36	30 J	1700	C	N	BSV
76-44-8	Heptachlor	ND	ND	µg/kg	--	0/14	1.6 - 36	N/A	130	C	N	ND
1024-57-3	Heptachlor epoxide	2.0 J	8.0 NJ	µg/kg	BH153-18: 13-15 ft BGS (5/29/2018)	2/14	1.5 - 36	8.0 NJ	70	C	N	BSV
72-43-5	Methoxychlor	ND	ND	µg/kg	--	0/14	6.8 - 140	N/A	32000	N	N	ND
8001-35-2	Toxaphene	ND	ND	µg/kg	--	0/14	26 - 1400	N/A	490	C	N	ND
	Herbicides											
93-72-1	2,4,5-TP (Silvex)	ND	ND	µg/kg	--	0/2	21 - 27	N/A	51000	N	N	ND
94-75-7	2,4-Dichlorophenoxyacetic acid (2,4-D)	ND	ND	µg/kg	--	0/2	85 - 110	N/A	70000	N	N	ND
	Asbestos											
1332-21-4	Asbestos	ND	ND	%	--	0/6	1	N/A	--		N	ND

Notes:

(1) Minimum/maximum detected concentration.
(2) Based on data collected from sampling locations: BH152-18, BH153-18, BH154-18, BH155-18, BH156-18, BH157-18, SS-146, SS-147, SS-149, SS-150, SS-151, SS-153, TT-18.
(3) Regional Screening Level (RSL) Summary Table (TR = 1E-06, HI = 0.1) , Residential Soil, November 2018.
(4) Rationale Codes

Selection Reason: Maximum detected above Screening Value (ASV)
Analyte Detected and no Screening Value available (AD)
Deletion Reason: Maximum detected below Screening Value (BSV)
Naturally Occurring (NAT)

(5) No screening value available, surrogate screening value implemented as follows:

Chemical		Surrogate
1,3-dichlorobenzene	-	1,2-dichlorobenzene
methyl cyclohexane	-	cyclohexane
3&4-methylphenol	-	3-methylphenol
acenaphthylene	-	acenaphthene
benzo(g,h,i)perylene	-	pyrene
phenanthrene	-	pyrene
dimethylphthalate	-	diethylphthalate

Defintions:

-- = Not Available
N = Noncarcinogen
C = Carcinogen
Y = Yes
N = No
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.

Table 5

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU04 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU04 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Volatile Organic Compounds											
71-55-6	1,1,1-Trichloroethane	1.0 J	94 J	µg/kg	SS-138: 0-2 ft BGS (5/17/2018)	1/6	0.41 - 50	94 J	810000	N	N	BSV
79-34-5	1,1,2,2-Tetrachloroethane	ND	ND	µg/kg	--	0/4	1.2 - 43	N/A	600	C	N	ND
79-00-5	1,1,2-Trichloroethane	ND	ND	µg/kg	--	0/5	0.63 - 41	N/A	150	N	N	ND
75-34-3	1,1-Dichloroethane	ND	ND	µg/kg	--	0/6	0.53 - 56	N/A	3.6	C	N	ND
75-35-4	1,1-Dichloroethene	ND	ND	µg/kg	--	0/6	0.77 - 65	N/A	23000	N	N	ND
120-82-1	1,2,4-Trichlorobenzene	ND	ND	µg/kg	--	0/4	0.49 - 47	N/A	5800	N	N	ND
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	ND	µg/kg	--	0/4	3.1 - 86	N/A	5.3	C	N	ND
106-93-4	1,2-Dibromoethane (Ethylene dibromide)	ND	ND	µg/kg	--	0/5	0.57 - 41	N/A	36	C	N	ND
95-50-1	1,2-Dichlorobenzene	ND	ND	µg/kg	--	0/4	0.95 - 32	N/A	180000	N	N	ND
107-06-2	1,2-Dichloroethane	ND	ND	µg/kg	--	0/6	0.47 - 54	N/A	460	C	N	ND
78-87-5	1,2-Dichloropropane	ND	ND	µg/kg	--	0/6	0.5 - 54	N/A	1600	N	N	ND
541-73-1	1,3-Dichlorobenzene	ND	ND	µg/kg	--	0/4	0.7 - 68	N/A	180000 (5)	N	N	ND
106-46-7	1,4-Dichlorobenzene	ND	ND	µg/kg	--	0/4	0.76 - 49	N/A	2600	C	N	ND
78-93-3	2-Butanone (Methyl ethyl ketone) (MEK)	ND	ND	µg/kg	--	0/6	2.1 - 90	N/A	2700000	N	N	ND
591-78-6	2-Hexanone	ND	ND	µg/kg	--	0/5	0.94 - 150	N/A	20000	N	N	ND
108-10-1	4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ND	ND	µg/kg	--	0/6	1.4 - 72	N/A	3300000	N	N	ND
67-64-1	Acetone	ND	ND	µg/kg	--	0/6	5 - 170	N/A	6100000	N	N	ND
71-43-2	Benzene	ND	ND	µg/kg	--	0/6	0.52 - 43	N/A	1200	C	N	ND
75-27-4	Bromodichloromethane	ND	ND	µg/kg	--	0/6	0.53 - 32	N/A	290	C	N	ND
75-25-2	Bromoform	ND	ND	µg/kg	--	0/5	0.65 - 41	N/A	19000	C	N	ND
74-83-9	Bromomethane (Methyl bromide)	ND	ND	µg/kg	--	0/6	0.85 - 50	N/A	680	N	N	ND
75-15-0	Carbon disulfide	ND	ND	µg/kg	--	0/6	0.34 - 32	N/A	77000	N	N	ND
56-23-5	Carbon tetrachloride	ND	ND	µg/kg	--	0/6	0.41 - 49	N/A	650	C	N	ND
108-90-7	Chlorobenzene	ND	ND	µg/kg	--	0/5	0.53 - 54	N/A	28000	N	N	ND
75-00-3	Chloroethane	ND	ND	µg/kg	--	0/6	0.62 - 50	N/A	1400000	N	N	ND
67-66-3	Chloroform (Trichloromethane)	ND	ND	µg/kg	--	0/6	0.37 - 43	N/A	320	C	N	ND
74-87-3	Chloromethane (Methyl chloride)	ND	ND	µg/kg	--	0/6	0.62 - 32	N/A	11000	N	N	ND
156-59-2	cis-1,2-Dichloroethene	ND	ND	µg/kg	--	0/6	0.45 - 63	N/A	16000	N	N	ND
10061-01-5	cis-1,3-Dichloropropene	ND	ND	µg/kg	--	0/6	0.42 - 41	N/A	1800	C	N	ND
110-82-7	Cyclohexane	ND	ND	µg/kg	--	0/6	0.34 - 54	N/A	650000	N	N	ND
124-48-1	Dibromochloromethane	ND	ND	µg/kg	--	0/5	0.49 - 61	N/A	8300	C	N	ND
75-71-8	Dichlorodifluoromethane (CFC-12)	ND	ND	µg/kg	--	0/6	0.57 - 40	N/A	8700	N	N	ND
100-41-4	Ethylbenzene	ND	ND	µg/kg	--	0/5	0.44 - 63	N/A	5800	C	N	ND
98-82-8	Isopropyl benzene	ND	ND	µg/kg	--	0/5	0.32 - 61	N/A	190000	N	N	ND
79-20-9	Methyl acetate	ND	ND	µg/kg	--	0/6	1.9 - 130	N/A	7800000	N	N	ND
108-87-2	Methyl cyclohexane	0.55 J	0.55 J	µg/kg	SS-139: 0-2 ft BGS (5/17/2018)	1/6	0.37 - 67	0.55 J	650000 (5)	N	N	BSV
1634-04-4	Methyl tert butyl ether (MTBE)	ND	ND	µg/kg	--	0/6	0.44 - 47	N/A	47000	C	N	ND
75-09-2	Methylene chloride	ND	ND	µg/kg	--	0/6	0.39 - 120	N/A	35000	N	N	ND
100-42-5	Styrene	ND	ND	µg/kg	--	0/5	0.44 - 18	N/A	600000	N	N	ND
127-18-4	Tetrachloroethene	72 J	72 J	µg/kg	SS-140: 0.17-2.17 ft BGS (5/17/2018)	1/5	0.6 - 0.8	72 J	8100	N	N	BSV
108-88-3	Toluene	ND	ND	µg/kg	--	0/5	0.55 - 43	N/A	490000	N	N	ND
156-60-5	trans-1,2-Dichloroethene	ND	ND	µg/kg	--	0/6	0.4 - 63	N/A	160000	N	N	ND

Table 5

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU04 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU04 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Volatile Organic Compounds (cont.'d)											
10061-02-6	trans-1,3-Dichloropropene	ND	ND	µg/kg	--	0/5	0.34 - 27	N/A	1800	C	N	ND
79-01-6	Trichloroethene	ND	ND	µg/kg	--	0/6	0.54 - 67	N/A	410	N	N	ND
75-69-4	Trichlorofluoromethane (CFC-11)	ND	ND	µg/kg	--	0/6	0.39 - 61	N/A	2300000	N	N	ND
76-13-1	Trifluorotrichloroethane (CFC-113)	ND	ND	µg/kg	--	0/6	0.79 - 41	N/A	670000	N	N	ND
75-01-4	Vinyl chloride	ND	ND	µg/kg	--	0/6	0.45 - 31	N/A	59	C	N	ND
1330-20-7	Xylenes (total)	ND	ND	µg/kg	--	0/5	0.65 - 50	N/A	58000	N	N	ND
	Semi-Volatiles Organic Compounds											
108-60-1	2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ND	ND	µg/kg	--	0/6	11 - 46	N/A	310000	N	N	ND
95-95-4	2,4,5-Trichlorophenol	ND	ND	µg/kg	--	0/6	77 - 320	N/A	630000	N	N	ND
88-06-2	2,4,6-Trichlorophenol	ND	ND	µg/kg	--	0/6	71 - 290	N/A	6300	N	N	ND
120-83-2	2,4-Dichlorophenol	ND	ND	µg/kg	--	0/6	49 - 200	N/A	19000	N	N	ND
105-67-9	2,4-Dimethylphenol	ND	ND	µg/kg	--	0/6	44 - 180	N/A	130000	N	N	ND
51-28-5	2,4-Dinitrophenol	ND	ND	µg/kg	--	0/6	160 - 650	N/A	13000	N	N	ND
121-14-2	2,4-Dinitrotoluene	ND	ND	µg/kg	--	0/6	69 - 280	N/A	1700	C	N	ND
606-20-2	2,6-Dinitrotoluene	ND	ND	µg/kg	--	0/6	62 - 260	N/A	360	C	N	ND
91-58-7	2-Chloronaphthalene	ND	ND	µg/kg	--	0/6	16 - 64	N/A	480000	N	N	ND
95-57-8	2-Chlorophenol	ND	ND	µg/kg	--	0/6	11 - 46	N/A	39000	N	N	ND
91-57-6	2-Methylnaphthalene	6.4 J	240	µg/kg	SS-139: 0-2 ft BGS (5/17/2018)	5/6	2.3	240	240000	N	N	BSV
95-48-7	2-Methylphenol	ND	ND	µg/kg	--	0/6	34 - 140	N/A	320000	N	N	ND
88-74-4	2-Nitroaniline	ND	ND	µg/kg	--	0/6	44 - 180	N/A	63000	n	N	ND
88-75-5	2-Nitrophenol	ND	ND	µg/kg	--	0/6	14 - 59	N/A	--		N	ND
3/4-Cresol	3&4-Methylphenol	ND	ND	µg/kg	--	0/6	32 - 130	N/A	320000 (5)	N	N	ND
91-94-1	3,3'-Dichlorobenzidine	ND	ND	µg/kg	--	0/6	48 - 200	N/A	1200	c	N	ND
99-09-2	3-Nitroaniline	ND	ND	µg/kg	--	0/6	55 - 220	N/A	--		N	ND
106-44-5	4-Methylphenol	ND	ND	µg/kg	--	0/0	--	N/A	630000	N	N	ND
534-52-1	4,6-Dinitro-2-methylphenol	ND	ND	µg/kg	--	0/6	89 - 370	N/A	510	N	N	ND
101-55-3	4-Bromophenyl phenyl ether	ND	ND	µg/kg	--	0/6	16 - 64	N/A	--		N	ND
59-50-7	4-Chloro-3-methylphenol	ND	ND	µg/kg	--	0/6	50 - 210	N/A	630000	N	N	ND
106-47-8	4-Chloroaniline	ND	ND	µg/kg	--	0/6	33 - 140	N/A	2700	C	N	ND
7005-72-3	4-Chlorophenyl phenyl ether	ND	ND	µg/kg	--	0/6	16 - 64	N/A	--		N	ND
100-01-6	4-Nitroaniline	ND	ND	µg/kg	--	0/6	67 - 270	N/A	25000	N	N	ND
100-02-7	4-Nitrophenol	ND	ND	µg/kg	--	0/6	100 - 430	N/A	--		N	ND
83-32-9	Acenaphthene	190	190	µg/kg	SS-145: 0-2 ft BGS (5/29/2018)	1/6	0.85 - 3.5	190	360000	N	N	BSV
208-96-8	Acenaphthylene	8.8	45	µg/kg	SS-145: 0-2 ft BGS (5/29/2018)	3/6	0.4 - 0.58	45	360000 (5)	N	N	BSV
98-86-2	Acetophenone	25 J	25 J	µg/kg	SS-139: 0-2 ft BGS (5/17/2018)	1/6	13 - 50	25 J	780000	N	N	BSV
120-12-7	Anthracene	7.3 J	480	µg/kg	SS-145: 0-2 ft BGS (5/29/2018)	4/6	0.9 - 1.3	480	1800000	N	N	BSV
1912-24-9	Atrazine	ND	ND	µg/kg	--	0/6	40 - 160	N/A	2400	C	N	ND
100-52-7	Benzaldehyde	39 J	120 J	µg/kg	SS-138: 0-2 ft BGS (5/17/2018)	2/6	26 - 110	120 J	170000	N	N	BSV
56-55-3	Benzo(a)anthracene	11	1100	µg/kg	SS-145: 0-2 ft BGS (5/29/2018)	6/6	--	1100	1100	C	N	BSV
50-32-8	**Benzo(a)pyrene**	**8.7 J**	**1100**	**µg/kg**	**SS-145: 0-2 ft BGS (5/29/2018)**	**6/6**	**--**	**1100**	**110**	**C**	**Y**	**ASV**
205-99-2	**Benzo(b)fluoranthene**	**14**	**1300**	**µg/kg**	**SS-145: 0-2 ft BGS (5/29/2018)**	**6/6**	**--**	**1300**	**1100**	**C**	**Y**	**ASV**

Table 5

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU04 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU04 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Semi-Volatiles Organic Compounds (cont.'d)											
191-24-2	Benzo(g,h,i)perylene	7.9 J	790	µg/kg	SS-145: 0-2 ft BGS (5/29/2018)	5/6	0.4	790	180000 (5)	N	N	BSV
207-08-9	Benzo(k)fluoranthene	7.1 J	480	µg/kg	SS-145: 0-2 ft BGS (5/29/2018)	5/6	0.78 - 1.1	480	11000	C	N	BSV
92-52-4	Biphenyl (1,1-Biphenyl)	25 J	25 J	µg/kg	SS-139: 0-2 ft BGS (5/17/2018)	1/6	20 - 78	25 J	4700	N	N	BSV
111-91-1	bis(2-Chloroethoxy)methane	ND	ND	µg/kg	--	0/6	13 - 55	N/A	19000	N	N	ND
111-44-4	bis(2-Chloroethyl)ether	ND	ND	µg/kg	--	0/6	13 - 55	N/A	230	C	N	ND
117-81-7	bis(2-Ethylhexyl)phthalate (DEHP)	110 J	4700	µg/kg	SS-142: 0-2 ft BGS (5/29/2018)	2/6	57 - 140	4700	39000	C	N	BSV
85-68-7	Butyl benzylphthalate (BBP)	ND	ND	µg/kg	--	0/6	24 - 100	N/A	290000	C	N	ND
105-60-2	Caprolactam	ND	ND	µg/kg	--	0/6	83 - 340	N/A	3100000	N	N	ND
86-74-8	**Carbazole**	**130 J**	**130 J**	**µg/kg**	**SS-145: 0-2 ft BGS (5/29/2018)**	**1/6**	**21 - 87**	**130 J**	**--**		**Y**	**AD**
218-01-9	Chrysene	12	1100	µg/kg	SS-145: 0-2 ft BGS (5/29/2018)	6/6	--	1100	110000	C	N	BSV
53-70-3	**Dibenz(a,h)anthracene**	**12**	**180**	**µg/kg**	**SS-145: 0-2 ft BGS (5/29/2018)**	**3/6**	**0.76 - 1.1**	**180**	**110**	**C**	**Y**	**ASV**
132-64-9	Dibenzofuran	16 J	100 J	µg/kg	SS-145: 0-2 ft BGS (5/29/2018)	3/6	18 - 59	100 J	7300	N	N	BSV
84-66-2	Diethyl phthalate	ND	ND	µg/kg	--	0/6	34 - 140	N/A	5100000	N	N	ND
131-11-3	Dimethyl phthalate	ND	ND	µg/kg	--	0/6	16 - 64	N/A	5100000 (5)	N	N	ND
84-74-2	Di-n-butylphthalate (DBP)	26 J	250	µg/kg	SS-140: 0.17-2.17 ft BGS (5/17/2018)	2/6	25 - 100	250	630000	N	N	BSV
117-84-0	Di-n-octyl phthalate (DnOP)	ND	ND	µg/kg	--	0/6	31 - 130	N/A	63000	N	N	ND
206-44-0	Fluoranthene	19	2900	µg/kg	SS-145: 0-2 ft BGS (5/29/2018)	6/6	--	2900	240000	N	N	BSV
86-73-7	Fluorene	8.5	150	µg/kg	SS-145: 0-2 ft BGS (5/29/2018)	3/6	0.61 - 0.87	150	240000	N	N	BSV
118-74-1	Hexachlorobenzene	ND	ND	µg/kg	--	0/6	2.3 - 9.6	N/A	210	C	N	ND
87-68-3	Hexachlorobutadiene	ND	ND	µg/kg	--	0/6	13 - 55	N/A	1200	C	N	ND
77-47-4	Hexachlorocyclopentadiene	ND	ND	µg/kg	--	0/6	69 - 280	N/A	180	N	N	ND
67-72-1	Hexachloroethane	ND	ND	µg/kg	--	0/6	10 - 41	N/A	1800	C	N	ND
193-39-5	Indeno(1,2,3-cd)pyrene	5.5 J	610	µg/kg	SS-145: 0-2 ft BGS (5/29/2018)	5/6	0.4	610	1100	C	N	BSV
78-59-1	Isophorone	ND	ND	µg/kg	--	0/6	13 - 55	N/A	570000	C	N	ND
91-20-3	Naphthalene	10	150	µg/kg	SS-139: 0-2 ft BGS (5/17/2018)	6/6	--	150	3800	C	N	BSV
98-95-3	Nitrobenzene	ND	ND	µg/kg	--	0/6	14 - 59	N/A	5100	C	N	ND
621-64-7	N-Nitrosodi-n-propylamine	ND	ND	µg/kg	--	0/6	12 - 50	N/A	78	C	N	ND
86-30-6	N-Nitrosodiphenylamine	ND	ND	µg/kg	--	0/6	13 - 55	N/A	110000	C	N	ND
87-86-5	Pentachlorophenol	ND	ND	µg/kg	--	0/6	65 - 260	N/A	1000	C	N	ND
85-01-8	Phenanthrene	15	1900	µg/kg	SS-145: 0-2 ft BGS (5/29/2018)	6/6	--	1900	180000 (5)	N	N	BSV
108-95-2	Phenol	13 J	27 J	µg/kg	SS-138: 0-2 ft BGS (5/17/2018)	1/6	8.9 - 37	27 J	1900000	N	N	BSV
129-00-0	Pyrene	20	2400	µg/kg	SS-145: 0-2 ft BGS (5/29/2018)	6/6	--	2400	180000	N	N	BSV
	Metals											
7429-90-5	**Aluminum**	**4800 J**	**15000 J**	**mg/kg**	**SS-138: 0-2 ft BGS (5/17/2018)**	**6/6**	**--**	**15000 J**	**7700**	**N**	**Y**	**ASV**
7440-36-0	**Antimony**	**0.16 J**	**12 J**	**mg/kg**	**SS-140: 0.17-2.17 ft BGS (5/17/2018)**	**6/6**	**--**	**12 J**	**3.1**	**N**	**Y**	**ASV**
7440-38-2	**Arsenic**	**7.3**	**50**	**mg/kg**	**SS-140: 0.17-2.17 ft BGS (5/17/2018)**	**6/6**	**--**	**50**	**0.68**	**C**	**Y**	**ASV**
7440-39-3	Barium	50	420	mg/kg	SS-140: 0.17-2.17 ft BGS (5/17/2018)	6/6	--	420	1500	N	N	BSV
7440-41-7	Beryllium	0.51	5.2	mg/kg	SS-138: 0-2 ft BGS (5/17/2018)	6/6	--	5.2	16	N	N	BSV
7440-43-9	Cadmium	0.16 J	0.92	mg/kg	SS-142: 0-2 ft BGS (5/29/2018)	6/6	--	0.92	7.1	N	N	BSV
7440-70-2	Calcium	47000	100000	mg/kg	SS-138: 0-2 ft BGS (5/17/2018)	6/6	--	100000	--		N	NAT
16065-83-1	Chromium III (trivalent)	9.9	21	mg/kg	SS-142: 0-2 ft BGS (5/29/2018)	6/6	--	21	12000	N	N	BSV

Table 5

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU04 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU04 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Metals (cont.'d)											
18540-29-9	**Chromium VI (hexavalent)**	**0.51 J**	**1.3**	**mg/kg**	**SS-138: 0-2 ft BGS (5/17/2018)**	**4/6**	**0.28**	**1.3**	**0.3**	**C**	**Y**	**ASV**
7440-48-4	**Cobalt**	**5.2**	**27**	**mg/kg**	**SS-140: 0.17-2.17 ft BGS (5/17/2018)**	**6/6**	**--**	**27**	**2.3**	**N**	**Y**	**ASV**
7440-50-8	Copper	16	92	mg/kg	SS-142: 0-2 ft BGS (5/29/2018)	6/6	--	92	310	N	N	BSV
57-12-5	Cyanide (total)	0.51 J	0.79 J	mg/kg	SS-138: 0-2 ft BGS (5/17/2018)	2/6	0.21 - 0.26	0.79 J	2.3	N	N	BSV
7439-89-6	**Iron**	**11000**	**18000**	**mg/kg**	**SS-144: 0.17-2.17 ft BGS (5/29/2018)**	**6/6**	**--**	**18000**	**5500**	**N**	**Y**	**ASV**
7439-92-1	Lead	13	130	mg/kg	SS-145: 0-2 ft BGS (5/29/2018)	6/6	--	130	400	C	N	BSV
7439-92-1	Lead - coarse fraction	33 J	33 J	mg/kg	SS-142: 0-2 ft BGS (5/29/2018)	1/1	--	33 J	400	C	N	BSV
7439-92-1	Lead - fine fraction	50	50	mg/kg	SS-142: 0-2 ft BGS (5/29/2018)	1/1	--	50	400	C	N	BSV
7439-92-1	Lead - total (calculated by fine/coarse fraction)	36	36	mg/kg	SS-142: 0-2 ft BGS (5/29/2018)	1/1	--	36	400	C	N	BSV
7439-95-4	Magnesium	3700	26000	mg/kg	SS-144: 0.17-2.17 ft BGS (5/29/2018)	6/6	--	26000	--		N	NAT
7439-96-5	**Manganese**	**130 J**	**410**	**mg/kg**	**SS-144: 0.17-2.17 ft BGS (5/29/2018)**	**6/6**	**--**	**410**	**180**	**N**	**Y**	**ASV**
7439-97-6	Mercury	0.026 J	0.45	mg/kg	SS-145: 0-2 ft BGS (5/29/2018)	6/6	--	0.45	1.1	N	N	BSV
7440-02-0	Nickel	12	51	mg/kg	SS-140: 0.17-2.17 ft BGS (5/17/2018)	6/6	--	51	150	N	N	BSV
7440-09-7	Potassium	590	2200	mg/kg	SS-138: 0-2 ft BGS (5/17/2018)	6/6	--	2200	--		N	NAT
7782-49-2	Selenium	0.43 J	5.3	mg/kg	SS-138: 0-2 ft BGS (5/17/2018)	6/6	--	5.3	39	N	N	BSV
7440-22-4	Silver	0.032 J	1.9	mg/kg	SS-142: 0-2 ft BGS (5/29/2018)	6/6	--	1.9	39	N	N	BSV
7440-23-5	Sodium	71 J	400	mg/kg	SS-140: 0.17-2.17 ft BGS (5/17/2018)	6/6	--	400	--		N	NAT
7440-28-0	**Thallium**	**0.13 J**	**1.3**	**mg/kg**	**SS-138: 0-2 ft BGS (5/17/2018)**	**6/6**	**--**	**1.3**	**0.078**	**N**	**Y**	**ASV**
7440-62-2	**Vanadium**	**15**	**61**	**mg/kg**	**SS-138: 0-2 ft BGS (5/17/2018)**	**6/6**	**--**	**61**	**39**	**N**	**Y**	**ASV**
7440-66-6	Zinc	32	280	mg/kg	SS-145: 0-2 ft BGS (5/29/2018)	6/6	--	280	2300	N	N	BSV
	Polychlorinated Biphenyls											
12674-11-2	Aroclor-1016 (PCB-1016)	ND	ND	µg/kg	--	0/6	24 - 36	N/A	410	N	N	ND
11104-28-2	Aroclor-1221 (PCB-1221)	ND	ND	µg/kg	--	0/6	27 - 39	N/A	200	C	N	ND
11141-16-5	Aroclor-1232 (PCB-1232)	ND	ND	µg/kg	--	0/6	25 - 38	N/A	170	C	N	ND
53469-21-9	Aroclor-1242 (PCB-1242)	ND	ND	µg/kg	--	0/6	21 - 31	N/A	230	C	N	ND
12672-29-6	Aroclor-1248 (PCB-1248)	ND	ND	µg/kg	--	0/6	27 - 39	N/A	230	C	N	ND
11097-69-1	Aroclor-1254 (PCB-1254)	27 J	110	µg/kg	SS-142: 0-2 ft BGS (5/29/2018)	2/6	25 - 38	110	120	C	N	BSV
11096-82-5	Aroclor-1260 (PCB-1260)	ND	ND	µg/kg	--	0/6	24 - 36	N/A	240	C	N	ND
	Pesticides											
72-54-8	4,4'-DDD	1.8 J	2.8 NJ	µg/kg	SS-138: 0-2 ft BGS (5/17/2018)	3/6	1.7 - 17	2.8 NJ	190	C	N	BSV
72-55-9	4,4'-DDE	8.3	8.3	µg/kg	SS-144: 0.17-2.17 ft BGS (5/29/2018)	1/6	1.6 - 17	8.3	2000	C	N	BSV
50-29-3	4,4'-DDT	2.3 NJ	4.6 J	µg/kg	SS-144: 0.17-2.17 ft BGS (5/29/2018)	3/6	1.6 - 13	4.6 J	1900	C	N	BSV
309-00-2	Aldrin	ND	ND	µg/kg	--	0/6	0.83 - 8.9	N/A	39	C	N	ND
319-84-6	alpha-BHC	ND	ND	µg/kg	--	0/6	0.98 - 10	N/A	86	C	N	ND
5103-71-9	alpha-Chlordane	2.5 J	2.5 J	µg/kg	SS-144: 0.17-2.17 ft BGS (5/29/2018)	1/6	1.6 - 17	2.5 J	1700	C	N	BSV
319-85-7	beta-BHC	ND	ND	µg/kg	--	0/6	1.9 - 20	N/A	300	C	N	ND
319-86-8	delta-BHC	ND	ND	µg/kg	--	0/6	1.8 - 19	N/A	300	C	N	ND
60-57-1	Dieldrin	ND	ND	µg/kg	--	0/6	1.2 - 13	N/A	34	C	N	ND

Table 5

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU04 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU04 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Pesticides (cont.'d)											
959-98-8	Endosulfan I	ND	ND	µg/kg	--	0/6	1.3 - 14	N/A	47000	N	N	ND
33213-65-9	Endosulfan II	ND	ND	µg/kg	--	0/6	1.6 - 17	N/A	47000	N	N	ND
1031-07-8	Endosulfan sulfate	ND	ND	µg/kg	--	0/6	1.4 - 15	N/A	47000	N	N	ND
72-20-8	Endrin	ND	ND	µg/kg	--	0/6	2 - 22	N/A	1900	N	N	ND
7421-93-4	Endrin aldehyde	ND	ND	µg/kg	--	0/6	1.4 - 15	N/A	1900	N	N	ND
53494-70-5	Endrin ketone	1.4 NJ	21 J	µg/kg	SS-145: 0-2 ft BGS (5/29/2018)	2/6	0.96 - 1.5	21 J	1900	N	N	BSV
58-89-9	gamma-BHC (lindane)	ND	ND	µg/kg	--	0/6	1.9 - 21	N/A	570	C	N	ND
5103-74-2	gamma-Chlordane	2.7 J	2.8 J	µg/kg	SS-142: 0-2 ft BGS (5/29/2018)	2/6	1.3 - 14	2.8 J	1700	C	N	BSV
76-44-8	Heptachlor	ND	ND	µg/kg	--	0/6	1.7 - 18	N/A	130	C	N	ND
1024-57-3	Heptachlor epoxide	ND	ND	µg/kg	--	0/6	1.6 - 17	N/A	70	C	N	ND
72-43-5	Methoxychlor	ND	ND	µg/kg	--	0/6	7.1 - 75	N/A	32000	N	N	ND
8001-35-2	Toxaphene	ND	ND	µg/kg	--	0/6	27 - 290	N/A	490	C	N	ND

Notes:

(1) Minimum/maximum detected concentration.
(2) Based on data collected from sampling locations: SS-138, SS-139, SS-140, SS-142, SS-144, SS-145.
(3) Regional Screening Level (RSL) Summary Table (TR = 1E-06, HI = 0.1) , Residential Soil, November 2018.
(4) Rationale Codes

Selection Reason: Maximum detected above Screening Value (ASV)
Analyte Detected and no Screening Value available (AD)
Deletion Reason: Maximum detected below Screening Value (BSV)
Naturally Occurring (NAT)

(5) No screening value available, surrogate screening value implemented as follows:

Chemical		Surrogate
1,3-dichlorobenzene	-	1,2-dichlorobenzene
methyl cyclohexane	-	cyclohexane
3&4-methylphenol	-	3-methylphenol
acenaphthylene	-	acenaphthene
benzo(g,h,i)perylene	-	pyrene
phenanthrene	-	pyrene
dimethylphthalate	-	diethylphthalate

Defintions:

-- = Not Available
N = Noncarcinogen
C = Carcinogen
Y = Yes
N = No
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.

Table 6

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU04 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU04 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Volatile Organic Compounds											
71-55-6	1,1,1-Trichloroethane	1.0 J	94 J	µg/kg	SS-138: 0-2 ft BGS (5/17/2018)	1/14	0.21 - 50	94 J	810000	N	N	BSV
79-34-5	1,1,2,2-Tetrachloroethane	ND	ND	µg/kg	--	0/11	0.23 - 43	N/A	600	C	N	ND
79-00-5	1,1,2-Trichloroethane	ND	ND	µg/kg	--	0/12	0.35 - 41	N/A	150	N	N	ND
75-34-3	1,1-Dichloroethane	ND	ND	µg/kg	--	0/14	0.3 - 56	N/A	3.6	C	N	ND
75-35-4	1,1-Dichloroethene	ND	ND	µg/kg	--	0/14	0.48 - 65	N/A	23000	N	N	ND
120-82-1	1,2,4-Trichlorobenzene	ND	ND	µg/kg	--	0/11	0.22 - 47	N/A	5800	N	N	ND
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	ND	µg/kg	--	0/11	0.61 - 86	N/A	5.3	C	N	ND
106-93-4	1,2-Dibromoethane (Ethylene dibromide)	ND	ND	µg/kg	--	0/12	0.31 - 41	N/A	36	C	N	ND
95-50-1	1,2-Dichlorobenzene	ND	ND	µg/kg	--	0/11	0.2 - 32	N/A	180000	N	N	ND
107-06-2	1,2-Dichloroethane	ND	ND	µg/kg	--	0/14	0.26 - 54	N/A	460	C	N	ND
78-87-5	1,2-Dichloropropane	ND	ND	µg/kg	--	0/14	0.28 - 54	N/A	1600	N	N	ND
541-73-1	1,3-Dichlorobenzene	ND	ND	µg/kg	--	0/11	0.26 - 68	N/A	180000 (5)	N	N	ND
106-46-7	1,4-Dichlorobenzene	ND	ND	µg/kg	--	0/11	0.31 - 49	N/A	2600	C	N	ND
78-93-3	2-Butanone (Methyl ethyl ketone) (MEK)	5.8 J	9.9 J	µg/kg	BH146-18: 13-15 ft BGS (5/17/2018)	3/14	1.1 - 90	9.9 J	2700000	N	N	BSV
591-78-6	2-Hexanone	ND	ND	µg/kg	--	0/12	0.52 - 150	N/A	20000	N	N	ND
108-10-1	4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ND	ND	µg/kg	--	0/14	0.8 - 72	N/A	3300000	N	N	ND
67-64-1	Acetone	81 J	81 J	µg/kg	BH146-18: 13-15 ft BGS (5/17/2018)	1/14	5 - 170	81 J	6100000	N	N	BSV
71-43-2	Benzene	0.46 J	0.90 J	µg/kg	BH146-18: 13-15 ft BGS (5/17/2018)	2/14	0.52 - 43	0.90 J	1200	C	N	BSV
75-27-4	Bromodichloromethane	ND	ND	µg/kg	--	0/14	0.3 - 32	N/A	290	C	N	ND
75-25-2	Bromoform	ND	ND	µg/kg	--	0/12	0.36 - 41	N/A	19000	C	N	ND
74-83-9	Bromomethane (Methyl bromide)	ND	ND	µg/kg	--	0/14	0.53 - 50	N/A	680	N	N	ND
75-15-0	Carbon disulfide	ND	ND	µg/kg	--	0/14	0.19 - 32	N/A	77000	N	N	ND
56-23-5	Carbon tetrachloride	ND	ND	µg/kg	--	0/14	0.22 - 49	N/A	650	C	N	ND
108-90-7	Chlorobenzene	ND	ND	µg/kg	--	0/12	0.3 - 54	N/A	28000	N	N	ND
75-00-3	Chloroethane	ND	ND	µg/kg	--	0/14	0.34 - 50	N/A	1400000	N	N	ND
67-66-3	Chloroform (Trichloromethane)	ND	ND	µg/kg	--	0/14	0.21 - 43	N/A	320	C	N	ND
74-87-3	Chloromethane (Methyl chloride)	ND	ND	µg/kg	--	0/14	0.34 - 32	N/A	11000	N	N	ND
156-59-2	cis-1,2-Dichloroethene	ND	ND	µg/kg	--	0/14	0.25 - 63	N/A	16000	N	N	ND
10061-01-5	cis-1,3-Dichloropropene	ND	ND	µg/kg	--	0/14	0.23 - 41	N/A	1800	C	N	ND
110-82-7	Cyclohexane	0.43 J	1.2 J	µg/kg	BH146-18: 13-15 ft BGS (5/17/2018)	2/14	0.34 - 54	1.2 J	650000	N	N	BSV
124-48-1	Dibromochloromethane	ND	ND	µg/kg	--	0/12	0.27 - 61	N/A	8300	C	N	ND
75-71-8	Dichlorodifluoromethane (CFC-12)	ND	ND	µg/kg	--	0/14	0.31 - 40	N/A	8700	N	N	ND
100-41-4	Ethylbenzene	0.78 J	0.78 J	µg/kg	BH147-18: 12-14 ft BGS (5/17/2018)	1/12	0.44 - 63	0.78 J	5800	C	N	BSV
98-82-8	Isopropyl benzene	ND	ND	µg/kg	--	0/12	0.18 - 61	N/A	190000	N	N	ND
79-20-9	Methyl acetate	ND	ND	µg/kg	--	0/14	1 - 130	N/A	7800000	N	N	ND
108-87-2	Methyl cyclohexane	0.55 J	2.0 J	µg/kg	BH146-18: 13-15 ft BGS (5/17/2018)	3/14	0.37 - 67	2.0 J	650000 (5)	N	N	BSV
1634-04-4	Methyl tert butyl ether (MTBE)	ND	ND	µg/kg	--	0/14	0.24 - 47	N/A	47000	C	N	ND
75-09-2	Methylene chloride	ND	ND	µg/kg	--	0/14	0.22 - 120	N/A	35000	N	N	ND
100-42-5	Styrene	ND	ND	µg/kg	--	0/12	0.24 - 18	N/A	600000	N	N	ND
127-18-4	Tetrachloroethene	0.34 J	72 J	µg/kg	SS-140: 0.17-2.17 ft BGS (5/17/2018)	2/12	0.6 - 6.1	72 J	8100	N	N	BSV
108-88-3	Toluene	1.0 J	1.8 J	µg/kg	BH147-18: 12-14 ft BGS (5/17/2018)	3/12	0.55 - 43	1.8 J	490000	N	N	BSV
156-60-5	trans-1,2-Dichloroethene	ND	ND	µg/kg	--	0/14	0.34 - 63	N/A	160000	N	N	ND

Table 6

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU04 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU04 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Volatile Organic Compounds (cont.'d)											
10061-02-6	trans-1,3-Dichloropropene	ND	ND	µg/kg	--	0/12	0.19 - 27	N/A	1800	C	N	ND
79-01-6	Trichloroethene	ND	ND	µg/kg	--	0/14	0.37 - 67	N/A	410	N	N	ND
75-69-4	Trichlorofluoromethane (CFC-11)	ND	ND	µg/kg	--	0/14	0.22 - 61	N/A	2300000	N	N	ND
76-13-1	Trifluorotrichloroethane (CFC-113)	ND	ND	µg/kg	--	0/14	0.44 - 41	N/A	670000	N	N	ND
75-01-4	Vinyl chloride	ND	ND	µg/kg	--	0/14	0.25 - 31	N/A	59	C	N	ND
1330-20-7	Xylenes (total)	1.4 J	1.4 J	µg/kg	BH147-18: 12-14 ft BGS (5/17/2018)	1/12	0.65 - 50	1.4 J	58000	N	N	BSV
	Semi-Volatiles Organic Compounds											
108-60-1	2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ND	ND	µg/kg	--	0/14	11 - 500	N/A	310000	N	N	ND
95-95-4	2,4,5-Trichlorophenol	ND	ND	µg/kg	--	0/14	75 - 750	N/A	630000	N	N	ND
88-06-2	2,4,6-Trichlorophenol	ND	ND	µg/kg	--	0/14	69 - 750	N/A	6300	N	N	ND
120-83-2	2,4-Dichlorophenol	ND	ND	µg/kg	--	0/14	48 - 750	N/A	19000	N	N	ND
105-67-9	2,4-Dimethylphenol	ND	ND	µg/kg	--	0/14	43 - 750	N/A	130000	N	N	ND
51-28-5	2,4-Dinitrophenol	ND	ND	µg/kg	--	0/14	150 - 1600	N/A	13000	N	N	ND
121-14-2	2,4-Dinitrotoluene	ND	ND	µg/kg	--	0/14	67 - 1000	N/A	1700	C	N	ND
606-20-2	2,6-Dinitrotoluene	ND	ND	µg/kg	--	0/14	61 - 1000	N/A	360	C	N	ND
91-58-7	2-Chloronaphthalene	ND	ND	µg/kg	--	0/14	15 - 250	N/A	480000	N	N	ND
95-57-8	2-Chlorophenol	ND	ND	µg/kg	--	0/14	11 - 250	N/A	39000	N	N	ND
91-57-6	2-Methylnaphthalene	6.4 J	240	µg/kg	SS-139: 0-2 ft BGS (5/17/2018)	11/14	0.94 - 7.3	240	240000	N	N	BSV
95-48-7	2-Methylphenol	ND	ND	µg/kg	--	0/14	34 - 1000	N/A	320000	N	N	ND
88-74-4	2-Nitroaniline	ND	ND	µg/kg	--	0/14	43 - 1000	N/A	63000	n	N	ND
88-75-5	2-Nitrophenol	ND	ND	µg/kg	--	0/14	14 - 250	N/A	--		N	ND
3/4-Cresol	3&4-Methylphenol	ND	ND	µg/kg	--	0/12	31 - 130	N/A	320000 (5)	N	N	ND
91-94-1	3,3'-Dichlorobenzidine	ND	ND	µg/kg	--	0/14	47 - 500	N/A	1200	c	N	ND
99-09-2	3-Nitroaniline	ND	ND	µg/kg	--	0/14	53 - 1000	N/A	--		N	ND
106-44-5	4-Methylphenol	ND	ND	µg/kg	--	0/2	220 - 1000	N/A	630000	N	N	ND
534-52-1	4,6-Dinitro-2-methylphenol	ND	ND	µg/kg	--	0/14	87 - 750	N/A	510	N	N	ND
101-55-3	4-Bromophenyl phenyl ether	ND	ND	µg/kg	--	0/14	15 - 250	N/A	--		N	ND
59-50-7	4-Chloro-3-methylphenol	ND	ND	µg/kg	--	0/14	49 - 750	N/A	630000	N	N	ND
106-47-8	4-Chloroaniline	ND	ND	µg/kg	--	0/14	32 - 750	N/A	2700	C	N	ND
7005-72-3	4-Chlorophenyl phenyl ether	ND	ND	µg/kg	--	0/14	15 - 250	N/A	--		N	ND
100-01-6	4-Nitroaniline	ND	ND	µg/kg	--	0/14	65 - 1000	N/A	25000	N	N	ND
100-02-7	4-Nitrophenol	ND	ND	µg/kg	--	0/14	100 - 1600	N/A	--		N	ND
83-32-9	Acenaphthene	4.4 J	250	µg/kg	TT-17: 14- ft BGS (9/30/2008)	5/14	0.85 - 3.5	250	360000	N	N	BSV
208-96-8	Acenaphthylene	8.8	45	µg/kg	SS-145: 0-2 ft BGS (5/29/2018)	5/14	0.38 - 33	45	360000 (5)	N	N	BSV
98-86-2	Acetophenone	25 J	25 J	µg/kg	SS-139: 0-2 ft BGS (5/17/2018)	1/14	12 - 500	25 J	780000	N	N	BSV
120-12-7	Anthracene	7.3 J	480	µg/kg	SS-145: 0-2 ft BGS (5/29/2018)	10/14	0.9 - 1.5	480	1800000	N	N	BSV
1912-24-9	Atrazine	ND	ND	µg/kg	--	0/14	39 - 1000	N/A	2400	C	N	ND
100-52-7	Benzaldehyde	39 J	120 J	µg/kg	SS-138: 0-2 ft BGS (5/17/2018)	2/14	25 - 500	120 J	170000	N	N	BSV
56-55-3	**Benzo(a)anthracene**	**11**	**1200**	**µg/kg**	**TT-17: 14- ft BGS (9/30/2008)**	**13/14**	**0.97**	**1200**	**1100**	**C**	**Y**	**ASV**
50-32-8	**Benzo(a)pyrene**	**8.7 J**	**1100**	**µg/kg**	**SS-145: 0-2 ft BGS (5/29/2018)**	**13/14**	**0.99**	**1100**	**110**	**C**	**Y**	**ASV**
205-99-2	**Benzo(b)fluoranthene**	**12 J**	**1300**	**µg/kg**	**SS-145: 0-2 ft BGS (5/29/2018)**	**13/14**	**0.91**	**1300**	**1100**	**C**	**Y**	**ASV**

Table 6

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU04 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU04 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Semi-Volatiles Organic Compounds (cont.'d)											
191-24-2	Benzo(g,h,i)perylene	7.9 J	790	µg/kg	SS-145: 0-2 ft BGS (5/29/2018)	12/14	0.4 - 0.54	790	180000 (5)	N	N	BSV
207-08-9	Benzo(k)fluoranthene	7.1 J	600	µg/kg	TT-17: 14- ft BGS (9/30/2008)	10/14	0.78 - 1.3	600	11000	C	N	BSV
92-52-4	Biphenyl (1,1-Biphenyl)	25 J	25 J	µg/kg	SS-139: 0-2 ft BGS (5/17/2018)	1/14	18 - 250	25 J	4700	N	N	BSV
111-91-1	bis(2-Chloroethoxy)methane	ND	ND	µg/kg	--	0/14	13 - 500	N/A	19000	N	N	ND
111-44-4	bis(2-Chloroethyl)ether	ND	ND	µg/kg	--	0/14	13 - 500	N/A	230	C	N	ND
117-81-7	bis(2-Ethylhexyl)phthalate (DEHP)	78 J	4700	µg/kg	SS-142: 0-2 ft BGS (5/29/2018)	5/14	55 - 250	4700	39000	C	N	BSV
85-68-7	Butyl benzylphthalate (BBP)	ND	ND	µg/kg	--	0/14	24 - 250	N/A	290000	C	N	ND
105-60-2	Caprolactam	ND	ND	µg/kg	--	0/14	81 - 1600	N/A	3100000	N	N	ND
86-74-8	**Carbazole**	**22 J**	**400**	**µg/kg**	**TT-17: 14- ft BGS (9/30/2008)**	**4/14**	**21 - 87**	**400**	**--**		**Y**	**AD**
218-01-9	Chrysene	12	1400	µg/kg	TT-17: 14- ft BGS (9/30/2008)	13/14	1.7	1400	110000	C	N	BSV
53-70-3	**Dibenz(a,h)anthracene**	**6.2 J**	**180**	**µg/kg**	**SS-145: 0-2 ft BGS (5/29/2018)**	**8/14**	**0.76 - 1.2**	**180**	**110**	**C**	**Y**	**ASV**
132-64-9	Dibenzofuran	16 J	180 J	µg/kg	TT-17: 14 ft BGS (9/30/2008)	4/14	14 - 59	180 J	7300	N	N	BSV
84-66-2	Diethyl phthalate	ND	ND	µg/kg	--	0/14	34 - 250	N/A	5100000	N	N	ND
131-11-3	Dimethyl phthalate	ND	ND	µg/kg	--	0/14	15 - 250	N/A	5100000 (5)	N	N	ND
84-74-2	Di-n-butylphthalate (DBP)	26 J	250	µg/kg	SS-140: 0.17-2.17 ft BGS (5/17/2018)	3/14	25 - 250	250	630000	N	N	BSV
117-84-0	Di-n-octyl phthalate (DnOP)	ND	ND	µg/kg	--	0/14	30 - 250	N/A	63000	N	N	ND
206-44-0	Fluoranthene	19	3700	µg/kg	TT-17: 14- ft BGS (9/30/2008)	13/14	0.85	3700	240000	N	N	BSV
86-73-7	Fluorene	3.8 J	250	µg/kg	TT-17: 14- ft BGS (9/30/2008)	7/14	0.61 - 1	250	240000	N	N	BSV
118-74-1	Hexachlorobenzene	ND	ND	µg/kg	--	0/14	2.3 - 33	N/A	210	C	N	ND
87-68-3	Hexachlorobutadiene	ND	ND	µg/kg	--	0/14	13 - 250	N/A	1200	C	N	ND
77-47-4	Hexachlorocyclopentadiene	ND	ND	µg/kg	--	0/14	67 - 1600	N/A	180	N	N	ND
67-72-1	Hexachloroethane	ND	ND	µg/kg	--	0/14	9.7 - 250	N/A	1800	C	N	ND
193-39-5	Indeno(1,2,3-cd)pyrene	5.5 J	610	µg/kg	SS-145: 0-2 ft BGS (5/29/2018)	10/14	0.4 - 0.66	610	1100	C	N	BSV
78-59-1	Isophorone	ND	ND	µg/kg	--	0/14	13 - 250	N/A	570000	C	N	ND
91-20-3	Naphthalene	10	150	µg/kg	SS-139: 0-2 ft BGS (5/17/2018)	11/14	1 - 7.3	150	3800	C	N	BSV
98-95-3	Nitrobenzene	ND	ND	µg/kg	--	0/14	14 - 500	N/A	5100	C	N	ND
621-64-7	N-Nitrosodi-n-propylamine	ND	ND	µg/kg	--	0/14	12 - 250	N/A	78	C	N	ND
86-30-6	N-Nitrosodiphenylamine	ND	ND	µg/kg	--	0/14	13 - 250	N/A	110000	C	N	ND
87-86-5	Pentachlorophenol	ND	ND	µg/kg	--	0/14	63 - 750	N/A	1000	C	N	ND
85-01-8	Phenanthrene	5.8 J	3400	µg/kg	TT-17: 14- ft BGS (9/30/2008)	14/14	--	3400	180000 (5)	N	N	BSV
108-95-2	Phenol	13 J	27 J	µg/kg	SS-138: 0-2 ft BGS (5/17/2018)	1/14	8.7 - 250	27 J	1900000	N	N	BSV
129-00-0	Pyrene	20	2900	µg/kg	TT-17: 14- ft BGS (9/30/2008)	13/14	0.68	2900	180000	N	N	BSV
	Metals											
7429-90-5	**Aluminum**	**2400 J**	**15000 J**	**mg/kg**	**SS-138: 0-2 ft BGS (5/17/2018)**	**14/14**	**--**	**15000 J**	**7700**	**N**	**Y**	**ASV**
7440-36-0	**Antimony**	**0.16 J**	**12 J**	**mg/kg**	**SS-140: 0.17-2.17 ft BGS (5/17/2018)**	**11/14**	**0.12 - 6.6**	**12 J**	**3.1**	**N**	**Y**	**ASV**
7440-38-2	**Arsenic**	**0.74 J**	**56**	**mg/kg**	**BH148-18: 6-8 ft BGS (5/17/2018)**	**14/14**	**--**	**56**	**0.68**	**C**	**Y**	**ASV**
7440-39-3	Barium	9.6	420	mg/kg	SS-140: 0.17-2.17 ft BGS (5/17/2018)	14/14	--	420	1500	N	N	BSV
7440-41-7	Beryllium	0.19 J	5.2	mg/kg	SS-138: 0-2 ft BGS (5/17/2018)	14/14	--	5.2	16	N	N	BSV
7440-43-9	Cadmium	0.11 J	0.92	mg/kg	SS-142: 0-2 ft BGS (5/29/2018)	13/14	0.07	0.92	7.1	N	N	BSV
7440-70-2	Calcium	5400	410000	mg/kg	BH146-18: 13-15 ft BGS (5/17/2018)	14/14	--	410000	--		N	NAT
16065-83-1	Chromium III (trivalent)	2.1	21	mg/kg	SS-142: 0-2 ft BGS (5/29/2018)	14/14	--	21	12000	N	N	BSV

Table 6

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU04 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU04 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Metals (cont.'d)											
18540-29-9	**Chromium VI (hexavalent)**	**0.51 J**	**1.5**	**mg/kg**	**TT-17: 5- ft BGS (9/30/2008)**	**10/14**	**0.28 - 1.5**	**1.5**	**0.3**	**C**	**Y**	**ASV**
7440-48-4	**Cobalt**	**0.77**	**27**	**mg/kg**	**SS-140: 0.17-2.17 ft BGS (5/17/2018)**	**14/14**	**--**	**27**	**2.3**	**N**	**Y**	**ASV**
7440-50-8	Copper	3.5	92	mg/kg	SS-142: 0-2 ft BGS (5/29/2018)	14/14	--	92	310	N	N	BSV
57-12-5	Cyanide (total)	0.22 J	1.3	mg/kg	BH146-18: 13-15 ft BGS (5/17/2018)	5/14	0.2 - 0.55	1.3	2.3	N	N	BSV
7439-89-6	**Iron**	**1200**	**19000**	**mg/kg**	**BH150-18: 13-15 ft BGS (5/29/2018)**	**14/14**	**--**	**19000**	**5500**	**N**	**Y**	**ASV**
7439-92-1	Lead	2.1	130	mg/kg	SS-145: 0-2 ft BGS (5/29/2018)	14/14	--	130	400	C	N	BSV
7439-92-1	Lead - coarse fraction	33 J	33 J	mg/kg	SS-142: 0-2 ft BGS (5/29/2018)	1/1	--	33 J	400	C	N	BSV
7439-92-1	Lead - fine fraction	50	50	mg/kg	SS-142: 0-2 ft BGS (5/29/2018)	1/1	--	50	400	C	N	BSV
7439-92-1	Lead - total (calculated by fine/coarse fraction)	36	36	mg/kg	SS-142: 0-2 ft BGS (5/29/2018)	1/1	--	36	400	C	N	BSV
7439-95-4	Magnesium	1100	51000	mg/kg	BH147-18: 12-14 ft BGS (5/17/2018)	14/14	--	51000	--		N	NAT
7439-96-5	**Manganese**	**37 J**	**620**	**mg/kg**	**BH151-18: 10-12 ft BGS (5/29/2018)**	**14/14**	**--**	**620**	**180**	**N**	**Y**	**ASV**
7439-97-6	Mercury	0.026 J	0.45	mg/kg	SS-145: 0-2 ft BGS (5/29/2018)	12/14	0.019 - 0.034	0.45	1.1	N	N	BSV
7440-02-0	Nickel	7.5	51	mg/kg	SS-140: 0.17-2.17 ft BGS (5/17/2018)	14/14	--	51	150	N	N	BSV
7440-09-7	Potassium	180 J	2200	mg/kg	SS-138: 0-2 ft BGS (5/17/2018)	14/14	--	2200	--		N	NAT
7782-49-2	Selenium	0.15 J	10	mg/kg	BH148-18: 6-8 ft BGS (5/17/2018)	13/14	27.5	10	39	N	N	BSV
7440-22-4	Silver	0.032 J	1.9	mg/kg	SS-142: 0-2 ft BGS (5/29/2018)	10/14	0.022 - 1.2	1.9	39	N	N	BSV
7440-23-5	Sodium	59 J	400	mg/kg	SS-140: 0.17-2.17 ft BGS (5/17/2018)	11/14	83 - 625	400	--		N	NAT
7440-28-0	**Thallium**	**0.083 J**	**1.5**	**mg/kg**	**BH148-18: 6-8 ft BGS (5/17/2018)**	**12/14**	**0.078 - 0.15**	**1.5**	**0.078**	**N**	**Y**	**ASV**
7440-62-2	**Vanadium**	**9**	**70**	**mg/kg**	**BH148-18: 6-8 ft BGS (5/17/2018)**	**14/14**	**--**	**70**	**39**	**N**	**Y**	**ASV**
7440-66-6	Zinc	6.5	280	mg/kg	SS-145: 0-2 ft BGS (5/29/2018)	14/14	--	280	2300	N	N	BSV
	Polychlorinated Biphenyls											
12674-11-2	Aroclor-1016 (PCB-1016)	ND	ND	µg/kg	--	0/14	24 - 42	N/A	410	N	N	ND
11104-28-2	Aroclor-1221 (PCB-1221)	ND	ND	µg/kg	--	0/14	27 - 46	N/A	200	C	N	ND
11141-16-5	Aroclor-1232 (PCB-1232)	ND	ND	µg/kg	--	0/14	25 - 44	N/A	170	C	N	ND
53469-21-9	Aroclor-1242 (PCB-1242)	ND	ND	µg/kg	--	0/14	21 - 41	N/A	230	C	N	ND
12672-29-6	Aroclor-1248 (PCB-1248)	59	59	µg/kg	TT-17: 14- ft BGS (9/30/2008)	1/14	27 - 46	59	230	C	N	BSV
11097-69-1	**Aroclor-1254 (PCB-1254)**	**27 J**	**210**	**µg/kg**	**BH150-18: 13-15 ft BGS (5/29/2018)**	**5/14**	**25 - 44**	**210**	**120**	**C**	**Y**	**ASV**
11096-82-5	Aroclor-1260 (PCB-1260)	ND	ND	µg/kg	--	0/14	24 - 42	N/A	240	C	N	ND
	Pesticides											
72-54-8	4,4'-DDD	1.8 J	2.8 NJ	µg/kg	SS-138: 0-2 ft BGS (5/17/2018)	3/14	1.7 - 190	2.8 NJ	190	C	N	BSV
72-55-9	4,4'-DDE	8.3	8.3	µg/kg	SS-144: 0.17-2.17 ft BGS (5/29/2018)	1/14	1.6 - 190	8.3	2000	C	N	BSV
50-29-3	4,4'-DDT	2.3 NJ	4.6 J	µg/kg	SS-144: 0.17-2.17 ft BGS (5/29/2018)	4/14	1.3 - 190	4.6 J	1900	C	N	BSV
309-00-2	Aldrin	ND	ND	µg/kg	--	0/14	0.83 - 190	N/A	39	C	N	ND
319-84-6	alpha-BHC	ND	ND	µg/kg	--	0/14	0.98 - 190	N/A	86	C	N	ND
5103-71-9	alpha-Chlordane	2.5 J	2.5 J	µg/kg	SS-144: 0.17-2.17 ft BGS (5/29/2018)	1/14	1.6 - 190	2.5 J	1700	C	N	BSV
319-85-7	beta-BHC	ND	ND	µg/kg	--	0/14	1.9 - 190	N/A	300	C	N	ND
319-86-8	delta-BHC	ND	ND	µg/kg	--	0/14	1.8 - 190	N/A	300	C	N	ND
60-57-1	Dieldrin	ND	ND	µg/kg	--	0/14	1.2 - 190	N/A	34	C	N	ND

Table 6

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU04 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU04 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Pesticides (cont.'d)											
959-98-8	Endosulfan I	ND	ND	µg/kg	--	0/14	1.3 - 190	N/A	47000	N	N	ND
33213-65-9	Endosulfan II	ND	ND	µg/kg	--	0/14	1.6 - 190	N/A	47000	N	N	ND
1031-07-8	Endosulfan sulfate	ND	ND	µg/kg	--	0/14	1.4 - 190	N/A	47000	N	N	ND
72-20-8	Endrin	ND	ND	µg/kg	--	0/14	2 - 190	N/A	1900	N	N	ND
7421-93-4	Endrin aldehyde	1.9 J	1.9 J	µg/kg	BH150-18: 13-15 ft BGS (5/29/2018)	1/14	1.4 - 190	1.9 J	1900	N	N	BSV
53494-70-5	Endrin ketone	1.4 NJ	21 J	µg/kg	SS-145: 0-2 ft BGS (5/29/2018)	2/14	0.96 - 190	21 J	1900	N	N	BSV
58-89-9	gamma-BHC (lindane)	ND	ND	µg/kg	--	0/14	1.9 - 190	N/A	570	C	N	ND
5103-74-2	gamma-Chlordane	2.7 J	2.8 J	µg/kg	SS-142: 0-2 ft BGS (5/29/2018)	2/14	1.3 - 190	2.8 J	1700	C	N	BSV
76-44-8	Heptachlor	ND	ND	µg/kg	--	0/14	1.7 - 190	N/A	130	C	N	ND
1024-57-3	Heptachlor epoxide	ND	ND	µg/kg	--	0/14	1.6 - 190	N/A	70	C	N	ND
72-43-5	Methoxychlor	ND	ND	µg/kg	--	0/14	7.1 - 360	N/A	32000	N	N	ND
8001-35-2	Toxaphene	ND	ND	µg/kg	--	0/14	27 - 7400	N/A	490	C	N	ND
	Herbicides											
93-72-1	2,4,5-TP (Silvex)	ND	ND	µg/kg	--	0/2	22 - 25	N/A	51000	N	N	ND
94-75-7	2,4-Dichlorophenoxyacetic acid (2,4-D)	ND	ND	µg/kg	--	0/2	88 - 100	N/A	70000	N	N	ND
	Asbestos											
1332-21-4	Asbestos	ND	ND	%	--	0/6	1	N/A	--		N	ND

Notes:

(1) Minimum/maximum detected concentration.
(2) Based on data collected from sampling locations: BH146-18, BH147-18, BH148-18, BH149-18, BH150-18, BH151-18,GP08-19, SS-138, SS-139, SS-140, SS-142, SS-144, SS-145, TT-17.
(3) Regional Screening Level (RSL) Summary Table (TR = 1E-06, HI = 0.1) , Residential Soil, November 2018.
(4) Rationale Codes

Selection Reason: Maximum detected above Screening Value (ASV)
Analyte Detected and no Screening Value available (AD)
Deletion Reason: Maximum detected below Screening Value (BSV)
Naturally Occurring (NAT)

(5) No screening value available, surrogate screening value implemented as follows:

Chemical		Surrogate
1,3-dichlorobenzene	-	1,2-dichlorobenzene
methyl cyclohexane	-	cyclohexane
3&4-methylphenol	-	3-methylphenol
acenaphthylene	-	acenaphthene
benzo(g,h,i)perylene	-	pyrene
phenanthrene	-	pyrene
dimethylphthalate	-	diethylphthalate

Defintions:

-- = Not Available
N = Noncarcinogen
C = Carcinogen
Y = Yes
N = No
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.

Table 7

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU03-EU04 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU03 and EU04 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Volatile Organic Compounds											
71-55-6	1,1,1-Trichloroethane	1.0 J	94 J	µg/kg	SS-138: 0-2 ft BGS (5/17/2018)	1/12	0.18 - 50	94 J	810000	N	N	BSV
79-34-5	1,1,2,2-Tetrachloroethane	ND	ND	µg/kg	--	0/10	0.21 - 43	N/A	600	C	N	ND
79-00-5	1,1,2-Trichloroethane	ND	ND	µg/kg	--	0/11	0.31 - 41	N/A	150	N	N	ND
75-34-3	1,1-Dichloroethane	ND	ND	µg/kg	--	0/12	0.26 - 56	N/A	3.6	C	N	ND
75-35-4	1,1-Dichloroethene	ND	ND	µg/kg	--	0/12	0.43 - 65	N/A	23000	N	N	ND
120-82-1	1,2,4-Trichlorobenzene	ND	ND	µg/kg	--	0/10	0.19 - 47	N/A	5800	N	N	ND
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	ND	µg/kg	--	0/10	0.54 - 86	N/A	5.3	C	N	ND
106-93-4	1,2-Dibromoethane (Ethylene dibromide)	ND	ND	µg/kg	--	0/11	0.28 - 41	N/A	36	C	N	ND
95-50-1	1,2-Dichlorobenzene	ND	ND	µg/kg	--	0/10	0.18 - 32	N/A	180000	N	N	ND
107-06-2	1,2-Dichloroethane	ND	ND	µg/kg	--	0/12	0.23 - 54	N/A	460	C	N	ND
78-87-5	1,2-Dichloropropane	ND	ND	µg/kg	--	0/12	0.25 - 54	N/A	1600	N	N	ND
541-73-1	1,3-Dichlorobenzene	ND	ND	µg/kg	--	0/10	0.23 - 68	N/A	180000 (5)	N	N	ND
106-46-7	1,4-Dichlorobenzene	ND	ND	µg/kg	--	0/10	0.28 - 49	N/A	2600	C	N	ND
78-93-3	2-Butanone (Methyl ethyl ketone) (MEK)	5.4 J	13 J	µg/kg	SS-150: 0-2 ft BGS (5/29/2018)	6/12	2.1 - 90	13 J	2700000	N	N	BSV
591-78-6	2-Hexanone	ND	ND	µg/kg	--	0/11	0.46 - 150	N/A	20000	N	N	ND
108-10-1	4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ND	ND	µg/kg	--	0/12	0.71 - 72	N/A	3300000	N	N	ND
67-64-1	Acetone	22	63	µg/kg	SS-150: 0-2 ft BGS (5/29/2018)	6/12	5 - 170	63	6100000	N	N	BSV
71-43-2	Benzene	ND	ND	µg/kg	--	0/12	0.26 - 43	N/A	1200	C	N	ND
75-27-4	Bromodichloromethane	ND	ND	µg/kg	--	0/12	0.26 - 32	N/A	290	C	N	ND
75-25-2	Bromoform	ND	ND	µg/kg	--	0/11	0.32 - 41	N/A	19000	C	N	ND
74-83-9	Bromomethane (Methyl bromide)	ND	ND	µg/kg	--	0/12	0.47 - 50	N/A	680	N	N	ND
75-15-0	Carbon disulfide	ND	ND	µg/kg	--	0/12	0.17 - 32	N/A	77000	N	N	ND
56-23-5	Carbon tetrachloride	ND	ND	µg/kg	--	0/12	0.2 - 49	N/A	650	C	N	ND
108-90-7	Chlorobenzene	ND	ND	µg/kg	--	0/11	0.26 - 54	N/A	28000	N	N	ND
75-00-3	Chloroethane	ND	ND	µg/kg	--	0/12	0.3 - 50	N/A	1400000	N	N	ND
67-66-3	Chloroform (Trichloromethane)	ND	ND	µg/kg	--	0/12	0.18 - 43	N/A	320	C	N	ND
74-87-3	Chloromethane (Methyl chloride)	ND	ND	µg/kg	--	0/12	0.3 - 32	N/A	11000	N	N	ND
156-59-2	cis-1,2-Dichloroethene	0.47 J	0.47 J	µg/kg	SS-153: 0-2 ft BGS (5/17/2018)	1/12	0.23 - 63	0.47 J	16000	N	N	BSV
10061-01-5	cis-1,3-Dichloropropene	ND	ND	µg/kg	--	0/12	0.21 - 41	N/A	1800	C	N	ND
110-82-7	Cyclohexane	ND	ND	µg/kg	--	0/12	0.17 - 54	N/A	650000	N	N	ND
124-48-1	Dibromochloromethane	ND	ND	µg/kg	--	0/11	0.24 - 61	N/A	8300	C	N	ND
75-71-8	Dichlorodifluoromethane (CFC-12)	ND	ND	µg/kg	--	0/12	0.28 - 40	N/A	8700	N	N	ND
100-41-4	Ethylbenzene	ND	ND	µg/kg	--	0/11	0.22 - 63	N/A	5800	C	N	ND
98-82-8	Isopropyl benzene	ND	ND	µg/kg	--	0/11	0.16 - 61	N/A	190000	N	N	ND
79-20-9	Methyl acetate	ND	ND	µg/kg	--	0/12	0.93 - 130	N/A	7800000	N	N	ND
108-87-2	Methyl cyclohexane	0.55 J	0.55 J	µg/kg	SS-139: 0-2 ft BGS (5/17/2018)	1/12	0.18 - 67	0.55 J	650000 (5)	N	N	BSV
1634-04-4	Methyl tert butyl ether (MTBE)	ND	ND	µg/kg	--	0/12	0.22 - 47	N/A	47000	C	N	ND
75-09-2	Methylene chloride	ND	ND	µg/kg	--	0/12	0.19 - 120	N/A	35000	N	N	ND
100-42-5	Styrene	ND	ND	µg/kg	--	0/11	0.22 - 18	N/A	600000	N	N	ND
127-18-4	Tetrachloroethene	72 J	72 J	µg/kg	SS-140: 0.17-2.17 ft BGS (5/17/2018)	1/11	0.3 - 0.8	72 J	8100	N	N	BSV
108-88-3	Toluene	ND	ND	µg/kg	--	0/11	0.27 - 43	N/A	490000	N	N	ND
156-60-5	trans-1,2-Dichloroethene	ND	ND	µg/kg	--	0/12	0.3 - 63	N/A	160000	N	N	ND

Table 7

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU03-EU04 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU03 and EU04 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Volatile Organic Compounds (cont.'d)											
10061-02-6	trans-1,3-Dichloropropene	ND	ND	µg/kg	--	0/11	0.17 - 27	N/A	1800	C	N	ND
79-01-6	Trichloroethene	ND	ND	µg/kg	--	0/12	0.33 - 67	N/A	410	N	N	ND
75-69-4	Trichlorofluoromethane (CFC-11)	ND	ND	µg/kg	--	0/12	0.19 - 61	N/A	2300000	N	N	ND
76-13-1	Trifluorotrichloroethane (CFC-113)	ND	ND	µg/kg	--	0/12	0.39 - 41	N/A	670000	N	N	ND
75-01-4	Vinyl chloride	ND	ND	µg/kg	--	0/12	0.22 - 31	N/A	59	C	N	ND
1330-20-7	Xylenes (total)	ND	ND	µg/kg	--	0/11	0.32 - 50	N/A	58000	N	N	ND
	Semi-Volatiles Organic Compounds											
108-60-1	2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ND	ND	µg/kg	--	0/12	11 - 4400	N/A	310000	N	N	ND
95-95-4	2,4,5-Trichlorophenol	ND	ND	µg/kg	--	0/12	77 - 30000	N/A	630000	N	N	ND
88-06-2	2,4,6-Trichlorophenol	ND	ND	µg/kg	--	0/12	71 - 28000	N/A	6300	N	N	ND
120-83-2	2,4-Dichlorophenol	ND	ND	µg/kg	--	0/12	49 - 19000	N/A	19000	N	N	ND
105-67-9	2,4-Dimethylphenol	ND	ND	µg/kg	--	0/12	44 - 18000	N/A	130000	N	N	ND
51-28-5	2,4-Dinitrophenol	ND	ND	µg/kg	--	0/11	160 - 63000	N/A	13000	N	N	ND
121-14-2	2,4-Dinitrotoluene	ND	ND	µg/kg	--	0/12	69 - 27000	N/A	1700	C	N	ND
606-20-2	2,6-Dinitrotoluene	ND	ND	µg/kg	--	0/12	62 - 25000	N/A	360	C	N	ND
91-58-7	2-Chloronaphthalene	ND	ND	µg/kg	--	0/12	16 - 6200	N/A	480000	N	N	ND
95-57-8	2-Chlorophenol	ND	ND	µg/kg	--	0/12	11 - 4400	N/A	39000	N	N	ND
91-57-6	2-Methylnaphthalene	6.4 J	6300	µg/kg	SS-146: 0-2 ft BGS (5/29/2018)	10/12	0.56 - 2.3	6300	240000	N	N	BSV
95-48-7	2-Methylphenol	ND	ND	µg/kg	--	0/12	34 - 14000	N/A	320000	N	N	ND
88-74-4	2-Nitroaniline	ND	ND	µg/kg	--	0/12	44 - 18000	N/A	63000	n	N	ND
88-75-5	2-Nitrophenol	ND	ND	µg/kg	--	0/12	14 - 5700	N/A	--		N	ND
3/4-Cresol	3&4-Methylphenol	ND	ND	µg/kg	--	0/12	32 - 13000	N/A	320000 (5)	N	N	ND
91-94-1	3,3'-Dichlorobenzidine	ND	ND	µg/kg	--	0/12	48 - 19000	N/A	1200	c	N	ND
99-09-2	3-Nitroaniline	ND	ND	µg/kg	--	0/12	55 - 22000	N/A	--		N	ND
106-44-5	4-Methylphenol	ND	ND	µg/kg	--	0/0	--	N/A	630000	N	N	ND
534-52-1	4,6-Dinitro-2-methylphenol	ND	ND	µg/kg	--	0/11	89 - 35000	N/A	510	N	N	ND
101-55-3	4-Bromophenyl phenyl ether	ND	ND	µg/kg	--	0/12	16 - 6200	N/A	--		N	ND
59-50-7	4-Chloro-3-methylphenol	ND	ND	µg/kg	--	0/12	50 - 20000	N/A	630000	N	N	ND
106-47-8	4-Chloroaniline	ND	ND	µg/kg	--	0/12	33 - 13000	N/A	2700	C	N	ND
7005-72-3	4-Chlorophenyl phenyl ether	ND	ND	µg/kg	--	0/12	16 - 6200	N/A	--		N	ND
100-01-6	4-Nitroaniline	ND	ND	µg/kg	--	0/12	67 - 26000	N/A	25000	N	N	ND
100-02-7	4-Nitrophenol	ND	ND	µg/kg	--	0/12	100 - 42000	N/A	--		N	ND
83-32-9	Acenaphthene	5.0 J	54000	µg/kg	SS-146: 0-2 ft BGS (5/29/2018)	5/12	0.85 - 8	54000	360000	N	N	BSV
208-96-8	Acenaphthylene	6.1 J	79	µg/kg	SS-149: 0-2 ft BGS (5/29/2018)	6/12	0.39 - 150	79	360000 (5)	N	N	BSV
98-86-2	Acetophenone	25 J	25 J	µg/kg	SS-139: 0-2 ft BGS (5/17/2018)	1/12	12 - 4900	25 J	780000	N	N	BSV
120-12-7	Anthracene	7.3 J	120000	µg/kg	SS-146: 0-2 ft BGS (5/29/2018)	10/12	0.9 - 1.3	120000	1800000	N	N	BSV
1912-24-9	Atrazine	ND	ND	µg/kg	--	0/12	40 - 16000	N/A	2400	C	N	ND
100-52-7	Benzaldehyde	39 J	120 J	µg/kg	SS-138: 0-2 ft BGS (5/17/2018)	2/12	26 - 10000	120 J	170000	N	N	BSV
56-55-3	**Benzo(a)anthracene**	**11**	**260000**	**µg/kg**	**SS-146: 0-2 ft BGS (5/29/2018)**	**12/12**	**--**	**260000**	**1100**	**C**	**Y**	**ASV**
50-32-8	**Benzo(a)pyrene**	**8.7 J**	**270000**	**µg/kg**	**SS-146: 0-2 ft BGS (5/29/2018)**	**12/12**	**--**	**270000**	**110**	**C**	**Y**	**ASV**
205-99-2	**Benzo(b)fluoranthene**	**14**	**330000**	**µg/kg**	**SS-146: 0-2 ft BGS (5/29/2018)**	**12/12**	**--**	**330000**	**1100**	**C**	**Y**	**ASV**

Table 7

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU03-EU04 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU03 and EU04 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Semi-Volatiles Organic Compounds (cont.'d)											
191-24-2	Benzo(g,h,i)perylene	7.9 J	120000	µg/kg	SS-146: 0-2 ft BGS (5/29/2018)	11/12	0.4	120000	180000 (5)	N	N	BSV
207-08-9	**Benzo(k)fluoranthene**	**7.1 J**	**130000**	**µg/kg**	**SS-146: 0-2 ft BGS (5/29/2018)**	**11/12**	**0.78 - 1.1**	**130000**	**11000**	**C**	**Y**	**ASV**
92-52-4	Biphenyl (1,1-Biphenyl)	25 J	25 J	µg/kg	SS-139: 0-2 ft BGS (5/17/2018)	1/12	19 - 7500	25 J	4700	N	N	BSV
111-91-1	bis(2-Chloroethoxy)methane	ND	ND	µg/kg	--	0/12	13 - 5300	N/A	19000	N	N	ND
111-44-4	bis(2-Chloroethyl)ether	ND	ND	µg/kg	--	0/12	13 - 5300	N/A	230	C	N	ND
117-81-7	bis(2-Ethylhexyl)phthalate (DEHP)	110 J	4700	µg/kg	SS-142: 0-2 ft BGS (5/29/2018)	3/12	57 - 23000	4700	39000	C	N	BSV
85-68-7	Butyl benzylphthalate (BBP)	ND	ND	µg/kg	--	0/12	24 - 9700	N/A	290000	C	N	ND
105-60-2	Caprolactam	ND	ND	µg/kg	--	0/12	83 - 33000	N/A	3100000	N	N	ND
86-74-8	**Carbazole**	**130 J**	**92000**	**µg/kg**	**SS-146: 0-2 ft BGS (5/29/2018)**	**3/12**	**21 - 200**	**92000**	**--**		**Y**	**AD**
218-01-9	**Chrysene**	**12**	**250000**	**µg/kg**	**SS-146: 0-2 ft BGS (5/29/2018)**	**12/12**	**--**	**250000**	**110000**	**C**	**Y**	**ASV**
53-70-3	**Dibenz(a,h)anthracene**	**9.3**	**39000**	**µg/kg**	**SS-146: 0-2 ft BGS (5/29/2018)**	**7/12**	**0.74 - 7**	**39000**	**110**	**C**	**Y**	**ASV**
132-64-9	**Dibenzofuran**	**16 J**	**30000**	**µg/kg**	**SS-146: 0-2 ft BGS (5/29/2018)**	**5/12**	**15 - 140**	**30000**	**7300**	**N**	**Y**	**ASV**
84-66-2	Diethyl phthalate	ND	ND	µg/kg	--	0/12	34 - 14000	N/A	5100000	N	N	ND
131-11-3	Dimethyl phthalate	ND	ND	µg/kg	--	0/12	16 - 6200	N/A	5100000 (5)	N	N	ND
84-74-2	Di-n-butylphthalate (DBP)	25 J	250	µg/kg	SS-140: 0.17-2.17 ft BGS (5/17/2018)	3/12	25 - 9700	250	630000	N	N	BSV
117-84-0	Di-n-octyl phthalate (DnOP)	ND	ND	µg/kg	--	0/12	31 - 12000	N/A	63000	N	N	ND
206-44-0	**Fluoranthene**	**19**	**590000**	**µg/kg**	**SS-146: 0-2 ft BGS (5/29/2018)**	**12/12**	**--**	**590000**	**240000**	**N**	**Y**	**ASV**
86-73-7	Fluorene	7.1 J	62000	µg/kg	SS-146: 0-2 ft BGS (5/29/2018)	7/12	0.6 - 5.6	62000	240000	N	N	BSV
118-74-1	Hexachlorobenzene	ND	ND	µg/kg	--	0/12	2.3 - 930	N/A	210	C	N	ND
87-68-3	Hexachlorobutadiene	ND	ND	µg/kg	--	0/12	13 - 5300	N/A	1200	C	N	ND
77-47-4	Hexachlorocyclopentadiene	ND	ND	µg/kg	--	0/11	69 - 27000	N/A	180	N	N	ND
67-72-1	Hexachloroethane	ND	ND	µg/kg	--	0/12	10 - 4000	N/A	1800	C	N	ND
193-39-5	**Indeno(1,2,3-cd)pyrene**	**5.5 J**	**120000**	**µg/kg**	**SS-146: 0-2 ft BGS (5/29/2018)**	**11/12**	**0.4**	**120000**	**1100**	**C**	**Y**	**ASV**
78-59-1	Isophorone	ND	ND	µg/kg	--	0/12	13 - 5300	N/A	570000	C	N	ND
91-20-3	**Naphthalene**	**8**	**18000**	**µg/kg**	**SS-146: 0-2 ft BGS (5/29/2018)**	**10/12**	**0.92 - 8.7**	**18000**	**3800**	**C**	**Y**	**ASV**
98-95-3	Nitrobenzene	ND	ND	µg/kg	--	0/12	14 - 5700	N/A	5100	C	N	ND
621-64-7	N-Nitrosodi-n-propylamine	ND	ND	µg/kg	--	0/12	12 - 4900	N/A	78	C	N	ND
86-30-6	N-Nitrosodiphenylamine	ND	ND	µg/kg	--	0/12	13 - 5300	N/A	110000	C	N	ND
87-86-5	Pentachlorophenol	ND	ND	µg/kg	--	0/12	65 - 26000	N/A	1000	C	N	ND
85-01-8	**Phenanthrene**	**15**	**480000**	**µg/kg**	**SS-146: 0-2 ft BGS (5/29/2018)**	**12/12**	**--**	**480000**	**180000 (5)**	**N**	**Y**	**ASV**
108-95-2	Phenol	13 J	27 J	µg/kg	SS-138: 0-2 ft BGS (5/17/2018)	1/12	8.9 - 3500	27 J	1900000	N	N	BSV
129-00-0	**Pyrene**	**20**	**450000**	**µg/kg**	**SS-146: 0-2 ft BGS (5/29/2018)**	**12/12**	**--**	**450000**	**180000**	**N**	**Y**	**ASV**
	Metals											
7429-90-5	**Aluminum**	**3500 J**	**15000 J**	**mg/kg**	**SS-138: 0-2 ft BGS (5/17/2018)**	**12/12**	**--**	**15000 J**	**7700**	**N**	**Y**	**ASV**
7440-36-0	**Antimony**	**0.13 J**	**12 J**	**mg/kg**	**SS-140: 0.17-2.17 ft BGS (5/17/2018)**	**11/12**	**0.13**	**12 J**	**3.1**	**N**	**Y**	**ASV**
7440-38-2	**Arsenic**	**1.8**	**50**	**mg/kg**	**SS-140: 0.17-2.17 ft BGS (5/17/2018)**	**12/12**	**--**	**50**	**0.68**	**C**	**Y**	**ASV**
7440-39-3	Barium	32	420	mg/kg	SS-140: 0.17-2.17 ft BGS (5/17/2018)	12/12	--	420	1500	N	N	BSV
7440-41-7	Beryllium	0.27	5.2	mg/kg	SS-138: 0-2 ft BGS (5/17/2018)	12/12	--	5.2	16	N	N	BSV
7440-43-9	Cadmium	0.16 J	0.92	mg/kg	SS-142: 0-2 ft BGS (5/29/2018)	12/12	--	0.92	7.1	N	N	BSV
7440-70-2	Calcium	37000	170000	mg/kg	SS-147: 0-2 ft BGS (5/29/2018)	12/12	--	170000	--		N	NAT
16065-83-1	Chromium III (trivalent)	7.5	280	mg/kg	SS-147: 0-2 ft BGS (5/29/2018)	12/12	--	280	12000	N	N	BSV

Table 7

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU03-EU04 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU03 and EU04 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Metals (cont.'d)											
18540-29-9	**Chromium VI (hexavalent)**	**0.51 J**	**1.3**	**mg/kg**	**SS-138: 0-2 ft BGS (5/17/2018)**	**6/12**	**0.26 - 1.4**	**1.3**	**0.3**	**C**	**Y**	**ASV**
7440-48-4	**Cobalt**	**1.2**	**27**	**mg/kg**	**SS-140: 0.17-2.17 ft BGS (5/17/2018)**	**12/12**	**--**	**27**	**2.3**	**N**	**Y**	**ASV**
7440-50-8	Copper	11	92	mg/kg	SS-142: 0-2 ft BGS (5/29/2018)	12/12	--	92	310	N	N	BSV
57-12-5	Cyanide (total)	0.51 J	0.79 J	mg/kg	SS-138: 0-2 ft BGS (5/17/2018)	2/12	0.18 - 0.26	0.79 J	2.3	N	N	BSV
7439-89-6	**Iron**	**10000**	**54000**	**mg/kg**	**SS-147: 0-2 ft BGS (5/29/2018)**	**12/12**	**--**	**54000**	**5500**	**N**	**Y**	**ASV**
7439-92-1	**Lead**	**9.1**	**1000**	**mg/kg**	**SS-146: 0-2 ft BGS (5/29/2018)**	**12/12**	**--**	**1000**	**400**	**C**	**Y**	**ASV**
7439-92-1	Lead - coarse fraction	33 J	100 J	mg/kg	SS-146: 0-2 ft BGS (5/29/2018)	2/2	--	100 J	400	C	N	BSV
7439-92-1	Lead - fine fraction	50	210	mg/kg	SS-146: 0-2 ft BGS (5/29/2018)	2/2	--	210	400	C	N	BSV
7439-92-1	Lead - total (calculated by fine/coarse fraction)	36	110	mg/kg	SS-146: 0-2 ft BGS (5/29/2018)	2/2	--	110	400	C	N	BSV
7439-95-4	Magnesium	3700	65000	mg/kg	SS-147: 0-2 ft BGS (5/29/2018)	12/12	--	65000	--		N	NAT
7439-96-5	**Manganese**	**130 J**	**6000**	**mg/kg**	**SS-147: 0-2 ft BGS (5/29/2018)**	**12/12**	**--**	**6000**	**180**	**N**	**Y**	**ASV**
7439-97-6	Mercury	0.022 J	0.56	mg/kg	SS-146: 0-2 ft BGS (5/29/2018)	11/12	0.019	0.56	1.1	N	N	BSV
7440-02-0	Nickel	8.9	51	mg/kg	SS-140: 0.17-2.17 ft BGS (5/17/2018)	12/12	--	51	150	N	N	BSV
7440-09-7	Potassium	500	2200	mg/kg	SS-138: 0-2 ft BGS (5/17/2018)	12/12	--	2200	--		N	NAT
7782-49-2	Selenium	0.24 J	5.3	mg/kg	SS-138: 0-2 ft BGS (5/17/2018)	12/12	--	5.3	39	N	N	BSV
7440-22-4	Silver	0.021 J	1.9	mg/kg	SS-142: 0-2 ft BGS (5/29/2018)	12/12	--	1.9	39	N	N	BSV
7440-23-5	Sodium	71 J	460 J	mg/kg	SS-147: 0-2 ft BGS (5/29/2018)	12/12	--	460 J	--		N	NAT
7440-28-0	**Thallium**	**0.11 J**	**1.3**	**mg/kg**	**SS-138: 0-2 ft BGS (5/17/2018)**	**11/12**	**0.046**	**1.3**	**0.078**	**N**	**Y**	**ASV**
7440-62-2	**Vanadium**	**12**	**170**	**mg/kg**	**SS-147: 0-2 ft BGS (5/29/2018)**	**12/12**	**--**	**170**	**39**	**N**	**Y**	**ASV**
7440-66-6	Zinc	31	280	mg/kg	SS-145: 0-2 ft BGS (5/29/2018)	12/12	--	280	2300	N	N	BSV
	Polychlorinated Biphenyls											
12674-11-2	Aroclor-1016 (PCB-1016)	ND	ND	µg/kg	--	0/12	23 - 36	N/A	410	N	N	ND
11104-28-2	Aroclor-1221 (PCB-1221)	ND	ND	µg/kg	--	0/12	25 - 39	N/A	200	C	N	ND
11141-16-5	Aroclor-1232 (PCB-1232)	ND	ND	µg/kg	--	0/12	24 - 38	N/A	170	C	N	ND
53469-21-9	Aroclor-1242 (PCB-1242)	ND	ND	µg/kg	--	0/12	20 - 31	N/A	230	C	N	ND
12672-29-6	Aroclor-1248 (PCB-1248)	ND	ND	µg/kg	--	0/12	25 - 39	N/A	230	C	N	ND
11097-69-1	Aroclor-1254 (PCB-1254)	27 J	110	µg/kg	SS-142: 0-2 ft BGS (5/29/2018)	2/12	24 - 38	110	120	C	N	BSV
11096-82-5	Aroclor-1260 (PCB-1260)	ND	ND	µg/kg	--	0/12	23 - 36	N/A	240	C	N	ND
	Pesticides											
72-54-8	4,4'-DDD	1.8 J	2.8 NJ	µg/kg	SS-138: 0-2 ft BGS (5/17/2018)	3/12	1.5 - 32	2.8 NJ	190	C	N	BSV
72-55-9	4,4'-DDE	8.3	8.3	µg/kg	SS-144: 0.17-2.17 ft BGS (5/29/2018)	1/12	1.6 - 33	8.3	2000	C	N	BSV
50-29-3	4,4'-DDT	1.4 J	4.6 J	µg/kg	SS-144: 0.17-2.17 ft BGS (5/29/2018)	4/12	1.2 - 24	4.6 J	1900	C	N	BSV
309-00-2	Aldrin	ND	ND	µg/kg	--	0/12	0.79 - 17	N/A	39	C	N	ND
319-84-6	alpha-BHC	ND	ND	µg/kg	--	0/12	0.94 - 20	N/A	86	C	N	ND
5103-71-9	alpha-Chlordane	2.5 J	2.5 J	µg/kg	SS-144: 0.17-2.17 ft BGS (5/29/2018)	1/12	1.5 - 32	2.5 J	1700	C	N	BSV
319-85-7	beta-BHC	ND	ND	µg/kg	--	0/12	1.8 - 37	N/A	300	C	N	ND
319-86-8	delta-BHC	ND	ND	µg/kg	--	0/12	1.8 - 93	N/A	300	C	N	ND
60-57-1	Dieldrin	ND	ND	µg/kg	--	0/12	1.1 - 24	N/A	34	C	N	ND

Table 7

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU03-EU04 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU03 and EU04 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Pesticides (cont.'d)											
959-98-8	Endosulfan I	ND	ND	µg/kg	--	0/12	1.2 - 26	N/A	47000	N	N	ND
33213-65-9	Endosulfan II	ND	ND	µg/kg	--	0/12	1.5 - 32	N/A	47000	N	N	ND
1031-07-8	Endosulfan sulfate	ND	ND	µg/kg	--	0/12	1.4 - 71	N/A	47000	N	N	ND
72-20-8	Endrin	ND	ND	µg/kg	--	0/12	2 - 41	N/A	1900	N	N	ND
7421-93-4	Endrin aldehyde	ND	ND	µg/kg	--	0/12	1.4 - 72	N/A	1900	N	N	ND
53494-70-5	Endrin ketone	1.4 NJ	21 J	µg/kg	SS-145: 0-2 ft BGS (5/29/2018)	2/12	0.92 - 19	21 J	1900	N	N	BSV
58-89-9	gamma-BHC (lindane)	ND	ND	µg/kg	--	0/12	1.8 - 39	N/A	570	C	N	ND
5103-74-2	gamma-Chlordane	2.7 J	2.8 J	µg/kg	SS-142: 0-2 ft BGS (5/29/2018)	2/12	1.3 - 27	2.8 J	1700	C	N	BSV
76-44-8	Heptachlor	ND	ND	µg/kg	--	0/12	1.6 - 34	N/A	130	C	N	ND
1024-57-3	Heptachlor epoxide	ND	ND	µg/kg	--	0/12	1.5 - 31	N/A	70	C	N	ND
72-43-5	Methoxychlor	ND	ND	µg/kg	--	0/12	6.8 - 140	N/A	32000	N	N	ND
8001-35-2	Toxaphene	ND	ND	µg/kg	--	0/12	26 - 540	N/A	490	C	N	ND

Notes:

(1) Minimum/maximum detected concentration.
(2) Based on data collected from sampling locations: SS-138, SS-139, SS-140, SS-142, SS-144, SS-145, SS-146, SS-147, SS-149, SS-150, SS-151, SS-153.
(3) Regional Screening Level (RSL) Summary Table (TR = 1E-06, HI = 0.1) , Residential Soil, November 2018.
(4) Rationale Codes

Selection Reason: Maximum detected above Screening Value (ASV)
Analyte Detected and no MOE Value available (AD)
Deletion Reason: Maximum detected below Screening Value (BSV)
Naturally Occurring (NAT)

(5) No screening value available, surrogate screening value implemented as follows:

Chemical		Surrogate
1,3-dichlorobenzene	-	1,2-dichlorobenzene
methyl cyclohexane	-	cyclohexane
3&4-methylphenol	-	3-methylphenol
acenaphthylene	-	acenaphthene
benzo(g,h,i)perylene	-	pyrene
phenanthrene	-	pyrene
dimethylphthalate	-	diethylphthalate

Defintions:

-- = Not Available
N = Noncarcinogen
C = Carcinogen
Y = Yes
N = No
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.

Table 8

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU03-EU04 Surface and Subsurface soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU03-EU04 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Volatile Organic Compounds											
71-55-6	1,1,1-Trichloroethane	1.0 J	94 J	µg/kg	SS-138: 0-2 ft BGS (5/17/2018)	1/28	0.18 - 50	94 J	810000	N	N	BSV
79-34-5	1,1,2,2-Tetrachloroethane	ND	ND	µg/kg	--	0/24	0.21 - 43	N/A	600	C	N	ND
79-00-5	1,1,2-Trichloroethane	ND	ND	µg/kg	--	0/26	0.31 - 41	N/A	150	N	N	ND
75-34-3	1,1-Dichloroethane	ND	ND	µg/kg	--	0/28	0.26 - 56	N/A	3.6	C	N	ND
75-35-4	1,1-Dichloroethene	ND	ND	µg/kg	--	0/28	0.43 - 65	N/A	23000	N	N	ND
120-82-1	1,2,4-Trichlorobenzene	ND	ND	µg/kg	--	0/24	0.19 - 47	N/A	5800	N	N	ND
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	ND	µg/kg	--	0/24	0.54 - 86	N/A	5.3	C	N	ND
106-93-4	1,2-Dibromoethane (Ethylene dibromide)	ND	ND	µg/kg	--	0/26	0.28 - 41	N/A	36	C	N	ND
95-50-1	1,2-Dichlorobenzene	ND	ND	µg/kg	--	0/24	0.18 - 32	N/A	180000	N	N	ND
107-06-2	1,2-Dichloroethane	ND	ND	µg/kg	--	0/28	0.23 - 54	N/A	460	C	N	ND
78-87-5	1,2-Dichloropropane	ND	ND	µg/kg	--	0/28	0.25 - 54	N/A	1600	N	N	ND
541-73-1	1,3-Dichlorobenzene	ND	ND	µg/kg	--	0/24	0.23 - 68	N/A	180000 (5)	N	N	ND
106-46-7	1,4-Dichlorobenzene	23 J	23 J	µg/kg	TT-18: 5 ft BGS (10/1/2008)	1/25	0.28 - 49	23 J	2600	C	N	BSV
78-93-3	2-Butanone (Methyl ethyl ketone) (MEK)	4.3 J	13 J	µg/kg	SS-150: 0-2 ft BGS (5/29/2018)	12/28	1.1 - 90	13 J	2700000	N	N	BSV
591-78-6	2-Hexanone	ND	ND	µg/kg	--	0/26	0.46 - 150	N/A	20000	N	N	ND
108-10-1	4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ND	ND	µg/kg	--	0/28	0.71 - 72	N/A	3300000	N	N	ND
67-64-1	Acetone	22	81 J	µg/kg	BH146-18: 13-15 ft BGS (5/17/2018)	8/28	2.7 - 170	81 J	6100000	N	N	BSV
71-43-2	Benzene	0.33 J	0.90 J	µg/kg	BH146-18: 13-15 ft BGS (5/17/2018)	3/28	0.26 - 43	0.90 J	1200	C	N	BSV
75-27-4	Bromodichloromethane	ND	ND	µg/kg	--	0/28	0.26 - 32	N/A	290	C	N	ND
75-25-2	Bromoform	ND	ND	µg/kg	--	0/26	0.32 - 41	N/A	19000	C	N	ND
74-83-9	Bromomethane (Methyl bromide)	ND	ND	µg/kg	--	0/28	0.47 - 50	N/A	680	N	N	ND
75-15-0	Carbon disulfide	ND	ND	µg/kg	--	0/28	0.17 - 32	N/A	77000	N	N	ND
56-23-5	Carbon tetrachloride	ND	ND	µg/kg	--	0/28	0.2 - 49	N/A	650	C	N	ND
108-90-7	Chlorobenzene	ND	ND	µg/kg	--	0/26	0.26 - 54	N/A	28000	N	N	ND
75-00-3	Chloroethane	ND	ND	µg/kg	--	0/28	0.3 - 50	N/A	1400000	N	N	ND
67-66-3	Chloroform (Trichloromethane)	ND	ND	µg/kg	--	0/28	0.18 - 43	N/A	320	C	N	ND
74-87-3	Chloromethane (Methyl chloride)	ND	ND	µg/kg	--	0/28	0.3 - 32	N/A	11000	N	N	ND
156-59-2	cis-1,2-Dichloroethene	0.47 J	0.47 J	µg/kg	SS-153: 0-2 ft BGS (5/17/2018)	1/28	0.23 - 63	0.47 J	16000	N	N	BSV
10061-01-5	cis-1,3-Dichloropropene	ND	ND	µg/kg	--	0/28	0.21 - 41	N/A	1800	C	N	ND
110-82-7	Cyclohexane	0.43 J	210 J	µg/kg	TT-18: 5 ft BGS (10/1/2008)	5/29	0.17 - 54	210 J	650000	N	N	BSV
124-48-1	Dibromochloromethane	ND	ND	µg/kg	--	0/26	0.24 - 61	N/A	8300	C	N	ND
75-71-8	Dichlorodifluoromethane (CFC-12)	ND	ND	µg/kg	--	0/28	0.28 - 40	N/A	8700	N	N	ND
100-41-4	Ethylbenzene	0.38 J	380	µg/kg	GP07-18: 12-13 ft bgs (8/1/2018)	3/26	0.22 - 63	380	5800	C	N	BSV
98-82-8	Isopropyl benzene	140 J	140 J	µg/kg	GP07-18: 12-13 ft bgs (8/1/2018)	1/26	0.16 - 61	140 J	190000	N	N	BSV
79-20-9	Methyl acetate	ND	ND	µg/kg	--	0/28	0.93 - 130	N/A	7800000	N	N	ND
108-87-2	Methyl cyclohexane	0.55 J	410 J	µg/kg	TT-18: 5 ft BGS (10/1/2008)	8/29	0.18 - 67	410 J	650000 (5)	N	N	BSV
1634-04-4	Methyl tert butyl ether (MTBE)	ND	ND	µg/kg	--	0/28	0.22 - 47	N/A	47000	C	N	ND
75-09-2	Methylene chloride	500 J	500 J	µg/kg	TT-18: 5- ft BGS (10/1/2008)	1/29	0.19 - 120	500 J	35000	N	N	BSV
100-42-5	Styrene	ND	ND	µg/kg	--	0/26	0.22 - 18	N/A	600000	N	N	ND
127-18-4	Tetrachloroethene	0.34 J	72 J	µg/kg	SS-140: 0.17-2.17 ft BGS (5/17/2018)	2/26	0.3 - 19	72 J	8100	N	N	BSV
108-88-3	Toluene	0.92 J	430	µg/kg	GP07-18: 12-13 ft bgs (8/1/2018)	6/26	0.27 - 43	430	490000	N	N	BSV
156-60-5	trans-1,2-Dichloroethene	ND	ND	µg/kg	--	0/28	0.3 - 63	N/A	160000	N	N	ND

Table 8

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU03-EU04 Surface and Subsurface soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU03-EU04 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Volatile Organic Compounds (cont.'d)											
10061-02-6	trans-1,3-Dichloropropene	ND	ND	µg/kg	--	0/26	0.17 - 27	N/A	1800	C	N	ND
79-01-6	Trichloroethene	ND	ND	µg/kg	--	0/28	0.33 - 67	N/A	410	N	N	ND
75-69-4	Trichlorofluoromethane (CFC-11)	ND	ND	µg/kg	--	0/28	0.19 - 61	N/A	2300000	N	N	ND
76-13-1	Trifluorotrichloroethane (CFC-113)	ND	ND	µg/kg	--	0/28	0.39 - 41	N/A	670000	N	N	ND
75-01-4	Vinyl chloride	ND	ND	µg/kg	--	0/28	0.22 - 31	N/A	59	C	N	ND
1330-20-7	Xylenes (total)	0.68 J	2800	µg/kg	GP07-18: 12-13 ft bgs (8/1/2018)	4/26	0.32 - 50	2800	58000	N	N	BSV
	Semi-Volatiles Organic Compounds											
108-60-1	2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ND	ND	µg/kg	--	0/28	11 - 4400	N/A	310000	N	N	ND
95-95-4	2,4,5-Trichlorophenol	ND	ND	µg/kg	--	0/28	73 - 30000	N/A	630000	N	N	ND
88-06-2	2,4,6-Trichlorophenol	ND	ND	µg/kg	--	0/28	68 - 28000	N/A	6300	N	N	ND
120-83-2	2,4-Dichlorophenol	ND	ND	µg/kg	--	0/28	47 - 19000	N/A	19000	N	N	ND
105-67-9	2,4-Dimethylphenol	ND	ND	µg/kg	--	0/28	43 - 18000	N/A	130000	N	N	ND
51-28-5	2,4-Dinitrophenol	ND	ND	µg/kg	--	0/27	150 - 63000	N/A	13000	N	N	ND
121-14-2	2,4-Dinitrotoluene	ND	ND	µg/kg	--	0/28	66 - 27000	N/A	1700	C	N	ND
606-20-2	2,6-Dinitrotoluene	ND	ND	µg/kg	--	0/28	60 - 25000	N/A	360	C	N	ND
91-58-7	2-Chloronaphthalene	ND	ND	µg/kg	--	0/28	15 - 6200	N/A	480000	N	N	ND
95-57-8	2-Chlorophenol	ND	ND	µg/kg	--	0/28	11 - 4400	N/A	39000	N	N	ND
91-57-6	2-Methylnaphthalene	5.9 J	6300	µg/kg	SS-146: 0-2 ft BGS (5/29/2018)	23/28	0.53 - 7.3	6300	240000	N	N	BSV
95-48-7	2-Methylphenol	ND	ND	µg/kg	--	0/28	33 - 14000	N/A	320000	N	N	ND
88-74-4	2-Nitroaniline	ND	ND	µg/kg	--	0/28	43 - 18000	N/A	63000	n	N	ND
88-75-5	2-Nitrophenol	ND	ND	µg/kg	--	0/28	14 - 5700	N/A	--		N	ND
3/4-Cresol	3&4-Methylphenol	ND	ND	µg/kg	--	0/24	31 - 13000	N/A	320000 (5)	N	N	ND
91-94-1	3,3'-Dichlorobenzidine	ND	ND	µg/kg	--	0/28	46 - 19000	N/A	1200	c	N	ND
99-09-2	3-Nitroaniline	ND	ND	µg/kg	--	0/28	52 - 22000	N/A	--		N	ND
106-44-5	4-Methylphenol	ND	ND	µg/kg	--	0/4	210 - 1000	N/A	630000	N	N	ND
534-52-1	4,6-Dinitro-2-methylphenol	ND	ND	µg/kg	--	0/27	85 - 35000	N/A	510	N	N	ND
101-55-3	4-Bromophenyl phenyl ether	ND	ND	µg/kg	--	0/28	15 - 6200	N/A	--		N	ND
59-50-7	4-Chloro-3-methylphenol	ND	ND	µg/kg	--	0/28	48 - 20000	N/A	630000	N	N	ND
106-47-8	4-Chloroaniline	ND	ND	µg/kg	--	0/28	32 - 13000	N/A	2700	C	N	ND
7005-72-3	4-Chlorophenyl phenyl ether	ND	ND	µg/kg	--	0/28	15 - 6200	N/A	--		N	ND
100-01-6	4-Nitroaniline	ND	ND	µg/kg	--	0/28	64 - 26000	N/A	25000	N	N	ND
100-02-7	4-Nitrophenol	ND	ND	µg/kg	--	0/28	100 - 42000	N/A	--		N	ND
83-32-9	Acenaphthene	4.4 J	54000	µg/kg	SS-146: 0-2 ft BGS (5/29/2018)	13/28	0.83 - 9.1	54000	360000	N	N	BSV
208-96-8	Acenaphthylene	4.9 J	1100	µg/kg	BH152-18: 9-11 ft BGS (5/29/2018)	12/28	0.37 - 150	1100	360000 (5)	N	N	BSV
98-86-2	Acetophenone	25 J	25 J	µg/kg	SS-139: 0-2 ft BGS (5/17/2018)	1/28	12 - 4900	25 J	780000	N	N	BSV
120-12-7	Anthracene	4.8 J	120000	µg/kg	SS-146: 0-2 ft BGS (5/29/2018)	23/28	0.9 - 9.1	120000	1800000	N	N	BSV
1912-24-9	Atrazine	ND	ND	µg/kg	--	0/28	38 - 16000	N/A	2400	C	N	ND
100-52-7	Benzaldehyde	39 J	120 J	µg/kg	SS-138: 0-2 ft BGS (5/17/2018)	2/28	24 - 10000	120 J	170000	N	N	BSV
56-55-3	**Benzo(a)anthracene**	**11**	**260000**	**µg/kg**	**SS-146: 0-2 ft BGS (5/29/2018)**	**26/28**	**0.73 - 9.1**	**260000**	**1100**	**C**	**Y**	**ASV**
50-32-8	**Benzo(a)pyrene**	**8.7 J**	**270000**	**µg/kg**	**SS-146: 0-2 ft BGS (5/29/2018)**	**26/28**	**0.99 - 9.1**	**270000**	**110**	**C**	**Y**	**ASV**
205-99-2	**Benzo(b)fluoranthene**	**12 J**	**330000**	**µg/kg**	**SS-146: 0-2 ft BGS (5/29/2018)**	**26/28**	**0.91 - 9.1**	**330000**	**1100**	**C**	**Y**	**ASV**

Table 8

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU03-EU04 Surface and Subsurface soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU03-EU04 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Semi-Volatiles Organic Compounds (cont.'d)											
191-24-2	Benzo(g,h,i)perylene	7.9 J	120000	µg/kg	SS-146: 0-2 ft BGS (5/29/2018)	25/28	0.4 - 9.1	120000	180000 (5)	N	N	BSV
207-08-9	**Benzo(k)fluoranthene**	**7.1 J**	**130000**	**µg/kg**	**SS-146: 0-2 ft BGS (5/29/2018)**	**22/28**	**0.74 - 9.1**	**130000**	**11000**	**C**	**Y**	**ASV**
92-52-4	Biphenyl (1,1-Biphenyl)	25 J	260 J	µg/kg	BH152-18: 9-11 ft BGS (5/29/2018)	2/28	18 - 7500	260 J	4700	N	N	BSV
111-91-1	bis(2-Chloroethoxy)methane	ND	ND	µg/kg	--	0/28	13 - 5300	N/A	19000	N	N	ND
111-44-4	bis(2-Chloroethyl)ether	ND	ND	µg/kg	--	0/28	13 - 5300	N/A	230	C	N	ND
117-81-7	bis(2-Ethylhexyl)phthalate (DEHP)	73 J	4700	µg/kg	SS-142: 0-2 ft BGS (5/29/2018)	8/28	53 - 23000	4700	39000	C	N	BSV
85-68-7	Butyl benzylphthalate (BBP)	ND	ND	µg/kg	--	0/28	23 - 9700	N/A	290000	C	N	ND
105-60-2	Caprolactam	ND	ND	µg/kg	--	0/28	80 - 33000	N/A	3100000	N	N	ND
86-74-8	**Carbazole**	**22 J**	**92000**	**µg/kg**	**SS-146: 0-2 ft BGS (5/29/2018)**	**8/28**	**20 - 200**	**92000**	**--**		**Y**	**AD**
218-01-9	**Chrysene**	**12**	**250000**	**µg/kg**	**SS-146: 0-2 ft BGS (5/29/2018)**	**26/28**	**1.3 - 9.1**	**250000**	**110000**	**C**	**Y**	**ASV**
53-70-3	**Dibenz(a,h)anthracene**	**6.2 J**	**39000**	**µg/kg**	**SS-146: 0-2 ft BGS (5/29/2018)**	**16/28**	**0.72 - 9.1**	**39000**	**110**	**C**	**Y**	**ASV**
132-64-9	**Dibenzofuran**	**16 J**	**30000**	**µg/kg**	**SS-146: 0-2 ft BGS (5/29/2018)**	**8/28**	**14 - 140**	**30000**	**7300**	**N**	**Y**	**ASV**
84-66-2	Diethyl phthalate	ND	ND	µg/kg	--	0/28	33 - 14000	N/A	5100000	N	N	ND
131-11-3	Dimethyl phthalate	ND	ND	µg/kg	--	0/28	15 - 6200	N/A	5100000 (5)	N	N	ND
84-74-2	Di-n-butylphthalate (DBP)	25 J	250	µg/kg	SS-140: 0.17-2.17 ft BGS (5/17/2018)	4/28	23 - 9700	250	630000	N	N	BSV
117-84-0	Di-n-octyl phthalate (DnOP)	ND	ND	µg/kg	--	0/28	30 - 12000	N/A	63000	N	N	ND
206-44-0	**Fluoranthene**	**19**	**590000**	**µg/kg**	**SS-146: 0-2 ft BGS (5/29/2018)**	**26/28**	**0.85 - 9.1**	**590000**	**240000**	**N**	**Y**	**ASV**
86-73-7	Fluorene	3.8 J	62000	µg/kg	SS-146: 0-2 ft BGS (5/29/2018)	16/28	0.58 - 9.1	62000	240000	N	N	BSV
118-74-1	Hexachlorobenzene	ND	ND	µg/kg	--	0/28	2.2 - 930	N/A	210	C	N	ND
87-68-3	Hexachlorobutadiene	ND	ND	µg/kg	--	0/28	13 - 5300	N/A	1200	C	N	ND
77-47-4	Hexachlorocyclopentadiene	ND	ND	µg/kg	--	0/27	66 - 27000	N/A	180	N	N	ND
67-72-1	Hexachloroethane	ND	ND	µg/kg	--	0/28	9.6 - 4000	N/A	1800	C	N	ND
193-39-5	**Indeno(1,2,3-cd)pyrene**	**5.5 J**	**120000**	**µg/kg**	**SS-146: 0-2 ft BGS (5/29/2018)**	**23/28**	**0.4 - 9.1**	**120000**	**1100**	**C**	**Y**	**ASV**
78-59-1	Isophorone	ND	ND	µg/kg	--	0/28	13 - 5300	N/A	570000	C	N	ND
91-20-3	**Naphthalene**	**5.3 J**	**18000**	**µg/kg**	**SS-146: 0-2 ft BGS (5/29/2018)**	**20/28**	**0.87 - 9.1**	**18000**	**3800**	**C**	**Y**	**ASV**
98-95-3	Nitrobenzene	ND	ND	µg/kg	--	0/28	14 - 5700	N/A	5100	C	N	ND
621-64-7	N-Nitrosodi-n-propylamine	ND	ND	µg/kg	--	0/28	12 - 4900	N/A	78	C	N	ND
86-30-6	N-Nitrosodiphenylamine	ND	ND	µg/kg	--	0/28	13 - 5300	N/A	110000	C	N	ND
87-86-5	Pentachlorophenol	ND	ND	µg/kg	--	0/28	62 - 26000	N/A	1000	C	N	ND
85-01-8	**Phenanthrene**	**5.8 J**	**480000**	**µg/kg**	**SS-146: 0-2 ft BGS (5/29/2018)**	**27/28**	**9.1**	**480000**	**180000 (5)**	**N**	**Y**	**ASV**
108-95-2	Phenol	13 J	27 J	µg/kg	SS-138: 0-2 ft BGS (5/17/2018)	1/28	8.5 - 3500	27 J	1900000	N	N	BSV
129-00-0	**Pyrene**	**17 J**	**450000**	**µg/kg**	**SS-146: 0-2 ft BGS (5/29/2018)**	**26/28**	**0.68 - 9.1**	**450000**	**180000**	**N**	**Y**	**ASV**
	Metals											
7429-90-5	**Aluminum**	**1500 J**	**15000 J**	**mg/kg**	**SS-138: 0-2 ft BGS (5/17/2018)**	**28/28**	**--**	**15000 J**	**7700**	**N**	**Y**	**ASV**
7440-36-0	**Antimony**	**0.13 J**	**12 J**	**mg/kg**	**SS-140: 0.17-2.17 ft BGS (5/17/2018)**	**22/28**	**0.12 - 6.6**	**12 J**	**3.1**	**N**	**Y**	**ASV**
7440-38-2	**Arsenic**	**0.74 J**	**56**	**mg/kg**	**BH148-18: 6-8 ft BGS (5/17/2018)**	**28/28**	**--**	**56**	**0.68**	**C**	**Y**	**ASV**
7440-39-3	Barium	9.6	420	mg/kg	SS-140: 0.17-2.17 ft BGS (5/17/2018)	28/28	--	420	1500	N	N	BSV
7440-41-7	Beryllium	0.099 J	5.2	mg/kg	SS-138: 0-2 ft BGS (5/17/2018)	28/28	--	5.2	16	N	N	BSV
7440-43-9	**Cadmium**	**0.091 J**	**15**	**mg/kg**	**BH152-18: 9-11 ft BGS (5/29/2018)**	**26/28**	**0.07 - 0.68**	**15**	**7.1**	**N**	**Y**	**ASV**
7440-70-2	Calcium	5400	410000	mg/kg	BH146-18: 13-15 ft BGS (5/17/2018)	28/28	--	410000	--		N	NAT
16065-83-1	Chromium III (trivalent)	2.1	280	mg/kg	SS-147: 0-2 ft BGS (5/29/2018)	28/28	--	280	12000	N	N	BSV

Table 8

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU03-EU04 Surface and Subsurface soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU03-EU04 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Metals (cont.'d)											
18540-29-9	**Chromium VI (hexavalent)**	**0.31 J**	**1.7**	**mg/kg**	**TT-18: 5- ft BGS (10/1/2008)**	**16/28**	**0.25 - 1.5**	**1.7**	**0.3**	**C**	**Y**	**ASV**
7440-48-4	**Cobalt**	**0.77**	**27**	**mg/kg**	**SS-140: 0.17-2.17 ft BGS (5/17/2018)**	**28/28**	**--**	**27**	**2.3**	**N**	**Y**	**ASV**
7440-50-8	Copper	3.5	96	mg/kg	BH152-18: 9-11 ft BGS (5/29/2018)	28/28	--	96	310	N	N	BSV
57-12-5	Cyanide (total)	0.22 J	1.3	mg/kg	BH146-18: 13-15 ft BGS (5/17/2018)	8/28	0.18 - 0.68	1.3	2.3	N	N	BSV
7439-89-6	**Iron**	**1200**	**54000**	**mg/kg**	**SS-147: 0-2 ft BGS (5/29/2018)**	**28/28**	**--**	**54000**	**5500**	**N**	**Y**	**ASV**
7439-92-1	**Lead**	**2.1**	**1000**	**mg/kg**	**SS-146: 0-2 ft BGS (5/29/2018)**	**28/28**	**--**	**1000**	**400**	**C**	**Y**	**ASV**
7439-92-1	Lead - coarse fraction	33 J	100 J	mg/kg	SS-146: 0-2 ft BGS (5/29/2018)	2/2	--	100 J	400	C	N	BSV
7439-92-1	Lead - fine fraction	50	210	mg/kg	SS-146: 0-2 ft BGS (5/29/2018)	2/2	--	210	400	C	N	BSV
7439-92-1	Lead - total (calculated by fine/coarse fraction)	36	110	mg/kg	SS-146: 0-2 ft BGS (5/29/2018)	2/2	--	110	400	C	N	BSV
7439-95-4	Magnesium	1100	65000	mg/kg	SS-147: 0-2 ft BGS (5/29/2018)	28/28	--	65000	--		N	NAT
7439-96-5	**Manganese**	**37 J**	**6000**	**mg/kg**	**SS-147: 0-2 ft BGS (5/29/2018)**	**28/28**	**--**	**6000**	**180**	**N**	**Y**	**ASV**
7439-97-6	Mercury	0.022 J	0.61	mg/kg	BH152-18: 9-11 ft BGS (5/29/2018)	22/28	0.018 - 0.14	0.61	1.1	N	N	BSV
7440-02-0	Nickel	7.4	51	mg/kg	SS-140: 0.17-2.17 ft BGS (5/17/2018)	28/28	--	51	150	N	N	BSV
7440-09-7	Potassium	180 J	2200	mg/kg	SS-138: 0-2 ft BGS (5/17/2018)	28/28	--	2200	--		N	NAT
7782-49-2	Selenium	0.15 J	10	mg/kg	BH148-18: 6-8 ft BGS (5/17/2018)	26/28	26.6 - 27.5	10	39	N	N	BSV
7440-22-4	Silver	0.021 J	1.9	mg/kg	SS-142: 0-2 ft BGS (5/29/2018)	21/28	0.021 - 1.4	1.9	39	N	N	BSV
7440-23-5	Sodium	59 J	620	mg/kg	BH152-18: 9-11 ft BGS (5/29/2018)	25/28	83 - 625	620	--		N	NAT
7440-28-0	**Thallium**	**0.083 J**	**1.5**	**mg/kg**	**BH148-18: 6-8 ft BGS (5/17/2018)**	**24/28**	**0.046 - 0.15**	**1.5**	**0.078**	**N**	**Y**	**ASV**
7440-62-2	**Vanadium**	**5.2**	**170**	**mg/kg**	**SS-147: 0-2 ft BGS (5/29/2018)**	**28/28**	**--**	**170**	**39**	**N**	**Y**	**ASV**
7440-66-6	Zinc	6.5	1600	mg/kg	BH152-18: 9-11 ft BGS (5/29/2018)	28/28	--	1600	2300	N	N	BSV
	Polychlorinated Biphenyls											
12674-11-2	Aroclor-1016 (PCB-1016)	ND	ND	µg/kg	--	0/28	23 - 130	N/A	410	N	N	ND
11104-28-2	Aroclor-1221 (PCB-1221)	ND	ND	µg/kg	--	0/28	25 - 140	N/A	200	C	N	ND
11141-16-5	Aroclor-1232 (PCB-1232)	ND	ND	µg/kg	--	0/28	24 - 130	N/A	170	C	N	ND
53469-21-9	**Aroclor-1242 (PCB-1242)**	**980**	**980**	**µg/kg**	**BH153-18: 13-15 ft BGS (5/29/2018)**	**1/28**	**20 - 45**	**980**	**230**	**C**	**Y**	**ASV**
12672-29-6	Aroclor-1248 (PCB-1248)	59	59	µg/kg	TT-17: 14- ft BGS (9/30/2008)	1/28	25 - 140	59	230	C	N	BSV
11097-69-1	**Aroclor-1254 (PCB-1254)**	**27 J**	**1300**	**µg/kg**	**BH153-18: 13-15 ft BGS (5/29/2018)**	**7/28**	**24 - 45**	**1300**	**120**	**C**	**Y**	**ASV**
11096-82-5	Aroclor-1260 (PCB-1260)	ND	ND	µg/kg	--	0/28	23 - 130	N/A	240	C	N	ND
	Pesticides											
72-54-8	4,4'-DDD	1.8 J	2.8 J	µg/kg	BH152-18: 9-11 ft BGS (5/29/2018)	4/28	1.5 - 190	2.8 J	190	C	N	BSV
72-55-9	4,4'-DDE	2.1 J	28	µg/kg	BH153-18: 13-15 ft BGS (5/29/2018)	3/28	1.6 - 190	28	2000	C	N	BSV
50-29-3	4,4'-DDT	1.4 J	4.6 J	µg/kg	SS-144: 0.17-2.17 ft BGS (5/29/2018)	5/28	1.2 - 190	4.6 J	1900	C	N	BSV
309-00-2	Aldrin	ND	ND	µg/kg	--	0/28	0.79 - 190	N/A	39	C	N	ND
319-84-6	alpha-BHC	ND	ND	µg/kg	--	0/28	0.94 - 190	N/A	86	C	N	ND
5103-71-9	alpha-Chlordane	2.5 J	36	µg/kg	BH153-18: 13-15 ft BGS (5/29/2018)	3/28	1.5 - 190	36	1700	C	N	BSV
319-85-7	beta-BHC	ND	ND	µg/kg	--	0/28	1.8 - 190	N/A	300	C	N	ND
319-86-8	delta-BHC	ND	ND	µg/kg	--	0/28	1.8 - 190	N/A	300	C	N	ND
60-57-1	Dieldrin	2.0 NJ	2.0 NJ	µg/kg	BH153-18: 13-15 ft BGS (5/29/2018)	1/28	1.1 - 190	2.0 NJ	34	C	N	BSV

Table 8

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU03-EU04 Surface and Subsurface soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU03-EU04 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Pesticides (cont.'d)											
959-98-8	Endosulfan I	ND	ND	µg/kg	--	0/28	1.2 - 190	N/A	47000	N	N	ND
33213-65-9	Endosulfan II	4.3 NJ	4.3 NJ	µg/kg	BH153-18: 13-15 ft BGS (5/29/2018)	1/28	1.5 - 190	4.3 NJ	47000	N	N	BSV
1031-07-8	Endosulfan sulfate	ND	ND	µg/kg	--	0/28	1.3 - 190	N/A	47000	N	N	ND
72-20-8	Endrin	ND	ND	µg/kg	--	0/28	2 - 190	N/A	1900	N	N	ND
7421-93-4	Endrin aldehyde	1.9 J	1.9 J	µg/kg	BH150-18: 13-15 ft BGS (5/29/2018)	1/28	1.4 - 190	1.9 J	1900	N	N	BSV
53494-70-5	Endrin ketone	1.4 NJ	21 J	µg/kg	SS-145: 0-2 ft BGS (5/29/2018)	2/28	0.92 - 190	21 J	1900	N	N	BSV
58-89-9	gamma-BHC (lindane)	3.8 J	3.8 J	µg/kg	BH153-18: 13-15 ft BGS (5/29/2018)	1/28	1.8 - 190	3.8 J	570	C	N	BSV
5103-74-2	gamma-Chlordane	2.7 J	30 J	µg/kg	BH153-18: 13-15 ft BGS (5/29/2018)	4/28	1.3 - 190	30 J	1700	C	N	BSV
76-44-8	Heptachlor	ND	ND	µg/kg	--	0/28	1.6 - 190	N/A	130	C	N	ND
1024-57-3	Heptachlor epoxide	2.0 J	8.0 NJ	µg/kg	BH153-18: 13-15 ft BGS (5/29/2018)	2/28	1.5 - 190	8.0 NJ	70	C	N	BSV
72-43-5	Methoxychlor	ND	ND	µg/kg	--	0/28	6.8 - 360	N/A	32000	N	N	ND
8001-35-2	Toxaphene	ND	ND	µg/kg	--	0/28	26 - 7400	N/A	490	C	N	ND
	Herbicides											
93-72-1	2,4,5-TP (Silvex)	ND	ND	µg/kg	--	0/4	21 - 27	N/A	51000	N	N	ND
94-75-7	2,4-Dichlorophenoxyacetic acid (2,4-D)	ND	ND	µg/kg	--	0/4	85 - 110	N/A	70000	N	N	ND
	Asbestos											
1332-21-4	Asbestos	ND	ND	%	--	0/12	1	N/A	--		N	ND

Notes:

(1) Minimum/maximum detected concentration.
(2) Based on data collected from sampling locations: BH68-13, BH105-18, BH106-18, BH152-18, BH153-18, BH154-18, BH155-18, BH156-18, BH157-18, GP30-18, GP31-18, SS-46, SS-47, SS-48, SS-49, SS-50, SS-51, SS-52, SS-53, SS-146, SS-147, SS-149, SS-150, SS-151, SS-153, SS-169-AS, SS-170-AS, TT-8, TT-9, TT-18.
(3) Regional Screening Level (RSL) Summary Table (TR = 1E-06, HI = 0.1) , Residential Soil, November 2018.
(4) Rationale Codes

Selection Reason: Maximum detected above Screening Value (ASV)
Analyte Detected and no Screening Value available (AD)
Deletion Reason: Maximum detected below Screening Value (BSV)
Naturally Occurring (NAT)

(5) No screening value available, surrogate screening value implemented as follows:

Chemical		Surrogate
1,3-dichlorobenzene	-	1,2-dichlorobenzene
methyl cyclohexane	-	cyclohexane
3&4-methylphenol	-	3-methylphenol
acenaphthylene	-	acenaphthene
benzo(g,h,i)perylene	-	pyrene
phenanthrene	-	pyrene
dimethylphthalate	-	diethylphthalate

Defintions:

-- = Not Available
N = Noncarcinogen
C = Carcinogen
Y = Yes
N = No
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.

Table 9

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU05-EU08 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU05-EU08 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Volatile Organic Compounds											
71-55-6	1,1,1-Trichloroethane	ND	ND	µg/kg	--	0/12	0.74 - 1.6	N/A	810000	N	N	ND
79-34-5	1,1,2,2-Tetrachloroethane	ND	ND	µg/kg	--	0/7	1.3 - 1.9	N/A	600	C	N	ND
79-00-5	1,1,2-Trichloroethane	ND	ND	µg/kg	--	0/12	1 - 2.2	N/A	150	N	N	ND
75-34-3	1,1-Dichloroethane	ND	ND	µg/kg	--	0/12	0.63 - 1.3	N/A	3.6	C	N	ND
75-35-4	1,1-Dichloroethene	ND	ND	µg/kg	--	0/12	0.82 - 1.7	N/A	23000	N	N	ND
120-82-1	1,2,4-Trichlorobenzene	ND	ND	µg/kg	--	0/7	0.52 - 0.76	N/A	5800	N	N	ND
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	ND	µg/kg	--	0/7	3.3 - 4.8	N/A	5.3	C	N	ND
106-93-4	1,2-Dibromoethane (Ethylene dibromide)	ND	ND	µg/kg	--	0/12	0.7 - 1.5	N/A	36	C	N	ND
95-50-1	1,2-Dichlorobenzene	ND	ND	µg/kg	--	0/7	1 - 1.5	N/A	180000	N	N	ND
107-06-2	1,2-Dichloroethane	ND	ND	µg/kg	--	0/12	0.7 - 1.5	N/A	460	C	N	ND
78-87-5	1,2-Dichloropropane	ND	ND	µg/kg	--	0/12	0.77 - 1.6	N/A	1600	N	N	ND
541-73-1	1,3-Dichlorobenzene	ND	ND	µg/kg	--	0/7	0.74 - 1.1	N/A	180000 (5)	N	N	ND
106-46-7	1,4-Dichlorobenzene	ND	ND	µg/kg	--	0/7	0.8 - 1.2	N/A	2600	C	N	ND
78-93-3	2-Butanone (Methyl ethyl ketone) (MEK)	5.1 J	5.3 J	µg/kg	SS-109: 0-2 ft BGS (5/30/2018)	2/12	3.4 - 6.8	5.3 J	2700000	N	#NAME?	#NAME?
591-78-6	2-Hexanone	ND	ND	µg/kg	--	0/12	3.7 - 7.9	N/A	20000	N	N	ND
108-10-1	4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ND	ND	µg/kg	--	0/12	3.4 - 7.1	N/A	3300000	N	N	ND
67-64-1	Acetone	28	180 J	µg/kg	SS-116: 0-2 ft BGS (5/30/2018)	6/12	20 - 35	180 J	6100000	N	#NAME?	#NAME?
71-43-2	Benzene	ND	ND	µg/kg	--	0/12	0.63 - 1.3	N/A	1200	C	N	ND
75-27-4	Bromodichloromethane	ND	ND	µg/kg	--	0/12	0.62 - 1.3	N/A	290	C	N	ND
75-25-2	Bromoform	ND	ND	µg/kg	--	0/12	2.2 - 4.6	N/A	19000	C	N	ND
74-83-9	Bromomethane (Methyl bromide)	ND	ND	µg/kg	--	0/12	0.9 - 1.9	N/A	680	N	N	ND
75-15-0	Carbon disulfide	ND	ND	µg/kg	--	0/12	1.1 - 2.2	N/A	77000	N	N	ND
56-23-5	Carbon tetrachloride	ND	ND	µg/kg	--	0/12	3 - 6.3	N/A	650	C	N	ND
108-90-7	Chlorobenzene	ND	ND	µg/kg	--	0/12	0.83 - 1.8	N/A	28000	N	N	ND
75-00-3	Chloroethane	ND	ND	µg/kg	--	0/12	1.1 - 2.3	N/A	1400000	N	N	ND
67-66-3	Chloroform (Trichloromethane)	ND	ND	µg/kg	--	0/12	0.72 - 1.5	N/A	320	C	N	ND
74-87-3	Chloromethane (Methyl chloride)	ND	ND	µg/kg	--	0/12	0.95 - 2	N/A	11000	N	N	ND
156-59-2	cis-1,2-Dichloroethene	ND	ND	µg/kg	--	0/12	0.59 - 1.3	N/A	16000	N	N	ND
10061-01-5	cis-1,3-Dichloropropene	ND	ND	µg/kg	--	0/12	1.3 - 2.8	N/A	1800	C	N	ND
110-82-7	Cyclohexane	ND	ND	µg/kg	--	0/12	1.2 - 2.6	N/A	650000	N	N	ND
124-48-1	Dibromochloromethane	ND	ND	µg/kg	--	0/12	2.5 - 5.4	N/A	8300	C	N	ND
75-71-8	Dichlorodifluoromethane (CFC-12)	ND	ND	µg/kg	--	0/12	0.86 - 1.8	N/A	8700	N	N	ND
100-41-4	Ethylbenzene	ND	ND	µg/kg	--	0/12	0.95 - 2	N/A	5800	C	N	ND
98-82-8	Isopropyl benzene	ND	ND	µg/kg	--	0/12	0.76 - 1.6	N/A	190000	N	N	ND
79-20-9	Methyl acetate	ND	ND	µg/kg	--	0/12	3.1 - 6.5	N/A	7800000	N	N	ND
108-87-2	Methyl cyclohexane	ND	ND	µg/kg	--	0/12	1.1 - 2.4	N/A	650000 (5)	N	N	ND
1634-04-4	Methyl tert butyl ether (MTBE)	ND	ND	µg/kg	--	0/12	0.74 - 1.6	N/A	47000	C	N	ND
75-09-2	Methylene chloride	ND	ND	µg/kg	--	0/12	11 - 23	N/A	35000	N	N	ND
100-42-5	Styrene	ND	ND	µg/kg	--	0/12	1.1 - 2.2	N/A	600000	N	N	ND
127-18-4	Tetrachloroethene	1.6 J	3.5 J	µg/kg	SS-116: 0-2 ft BGS (5/30/2018)	2/12	0.66 - 1.4	3.5 J	8100	N	#NAME?	#NAME?
108-88-3	Toluene	1.5 J	1.5 J	µg/kg	SS-120: 0-2 ft BGS (5/31/2018)	1/12	0.7 - 1.4	1.5 J	490000	N	#NAME?	#NAME?
156-60-5	trans-1,2-Dichloroethene	ND	ND	µg/kg	--	0/12	0.42 - 0.9	N/A	160000	N	N	ND

Table 9

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU05-EU08 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU05-EU08 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Volatile Organic Compounds (cont.'d)											
10061-02-6	trans-1,3-Dichloropropene	ND	ND	µg/kg	--	0/12	0.94 - 2	N/A	1800	C	N	ND
79-01-6	Trichloroethene	ND	ND	µg/kg	--	0/12	0.58 - 1.2	N/A	410	N	N	ND
75-69-4	Trichlorofluoromethane (CFC-11)	ND	ND	µg/kg	--	0/12	0.98 - 2.1	N/A	2300000	N	N	ND
76-13-1	Trifluorotrichloroethane (CFC-113)	ND	ND	µg/kg	--	0/12	1.2 - 2.5	N/A	670000	N	N	ND
75-01-4	Vinyl chloride	ND	ND	µg/kg	--	0/12	0.76 - 1.6	N/A	59	C	N	ND
1330-20-7	Xylenes (total)	ND	ND	µg/kg	--	0/12	1.4 - 3.1	N/A	58000	N	N	ND
	Semi-Volatiles Organic Compounds											
108-60-1	2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ND	ND	µg/kg	--	0/12	11 - 46	N/A	310000	N	N	ND
95-95-4	2,4,5-Trichlorophenol	ND	ND	µg/kg	--	0/12	73 - 320	N/A	630000	N	N	ND
88-06-2	2,4,6-Trichlorophenol	ND	ND	µg/kg	--	0/12	68 - 290	N/A	6300	N	N	ND
120-83-2	2,4-Dichlorophenol	ND	ND	µg/kg	--	0/12	47 - 200	N/A	19000	N	N	ND
105-67-9	2,4-Dimethylphenol	ND	ND	µg/kg	--	0/12	43 - 180	N/A	130000	N	N	ND
51-28-5	2,4-Dinitrophenol	ND	ND	µg/kg	--	0/12	150 - 650	N/A	13000	N	N	ND
121-14-2	2,4-Dinitrotoluene	ND	ND	µg/kg	--	0/12	66 - 280	N/A	1700	C	N	ND
606-20-2	2,6-Dinitrotoluene	ND	ND	µg/kg	--	0/12	60 - 260	N/A	360	C	N	ND
91-58-7	2-Chloronaphthalene	ND	ND	µg/kg	--	0/12	15 - 64	N/A	480000	N	N	ND
95-57-8	2-Chlorophenol	ND	ND	µg/kg	--	0/12	11 - 46	N/A	39000	N	N	ND
91-57-6	2-Methylnaphthalene	13	1200	µg/kg	SS-120: 0-2 ft BGS (5/31/2018)	12/12	--	1200	240000	N	#NAME?	#NAME?
95-48-7	2-Methylphenol	ND	ND	µg/kg	--	0/12	33 - 140	N/A	320000	N	N	ND
88-74-4	2-Nitroaniline	ND	ND	µg/kg	--	0/12	43 - 180	N/A	63000	n	N	ND
88-75-5	2-Nitrophenol	ND	ND	µg/kg	--	0/12	14 - 59	N/A	--		N	ND
3/4-Cresol	3&4-Methylphenol	ND	ND	µg/kg	--	0/12	31 - 130	N/A	320000 (5)	N	N	ND
91-94-1	3,3'-Dichlorobenzidine	ND	ND	µg/kg	--	0/12	46 - 200	N/A	1200	c	N	ND
99-09-2	3-Nitroaniline	ND	ND	µg/kg	--	0/12	52 - 220	N/A	--		N	ND
534-52-1	4,6-Dinitro-2-methylphenol	ND	ND	µg/kg	--	0/12	85 - 370	N/A	510	N	N	ND
101-55-3	4-Bromophenyl phenyl ether	ND	ND	µg/kg	--	0/12	15 - 64	N/A	--		N	ND
59-50-7	4-Chloro-3-methylphenol	ND	ND	µg/kg	--	0/12	48 - 210	N/A	630000	N	N	ND
106-47-8	4-Chloroaniline	ND	ND	µg/kg	--	0/12	32 - 140	N/A	2700	C	N	ND
7005-72-3	4-Chlorophenyl phenyl ether	ND	ND	µg/kg	--	0/12	15 - 64	N/A	--		N	ND
100-01-6	4-Nitroaniline	ND	ND	µg/kg	--	0/12	64 - 270	N/A	25000	N	N	ND
100-02-7	4-Nitrophenol	ND	ND	µg/kg	--	0/12	100 - 430	N/A	--		N	ND
83-32-9	Acenaphthene	6.8 J	170	µg/kg	SS-101: 0.25-2.25 ft BGS (11/2/2018)	6/12	0.87 - 3.3	170	360000	N	#NAME?	#NAME?
208-96-8	Acenaphthylene	5.4 J	95	µg/kg	SS-123: 0.3-2.3 ft BGS (5/31/2018)	9/12	0.44 - 18	95	360000 (5)	N	#NAME?	#NAME?
98-86-2	Acetophenone	12 J	95 J	µg/kg	SS-120: 0-2 ft BGS (5/31/2018)	4/12	12 - 50	95 J	780000	N	#NAME?	#NAME?
120-12-7	Anthracene	9.8 J	580	µg/kg	SS-101: 0.25-2.25 ft BGS (11/2/2018)	11/12	0.98	580	1800000	N	#NAME?	#NAME?
1912-24-9	Atrazine	ND	ND	µg/kg	--	0/12	38 - 160	N/A	2400	C	N	ND
100-52-7	Benzaldehyde	94 J	94 J	µg/kg	SS-120: 0-2 ft BGS (5/31/2018)	1/12	24 - 110	94 J	170000	N	#NAME?	#NAME?
56-55-3	Benzo(a)anthracene	9.3	1900	µg/kg	SS-101: 0.25-2.25 ft BGS (11/2/2018)	12/12	--	1900	1100	C	#NAME?	#NAME?
50-32-8	Benzo(a)pyrene	6.3 J	1600	µg/kg	SS-102: 0-2 ft BGS (5/30/2018)	12/12	--	1600	110	C	#NAME?	#NAME?
205-99-2	Benzo(b)fluoranthene	9.1	2100	µg/kg	SS-102: 0-2 ft BGS (5/30/2018)	12/12	--	2100	1100	C	#NAME?	#NAME?

Table 9

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU05-EU08 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU05-EU08 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Semi-Volatiles Organic Compounds (cont.'d)											
191-24-2	Benzo(g,h,i)perylene	25	640	µg/kg	SS-101: 0.25-2.25 ft BGS (11/2/2018)	11/12	0.44	640	180000 (5)	N	#NAME?	#NAME?
207-08-9	Benzo(k)fluoranthene	38	840	µg/kg	SS-101: 0.25-2.25 ft BGS (11/2/2018)	9/12	0.78 - 1	840	11000	C	#NAME?	#NAME?
92-52-4	Biphenyl (1,1-Biphenyl)	28 J	120	µg/kg	SS-120: 0-2 ft BGS (5/31/2018)	2/12	18 - 78	120	4700	N	#NAME?	#NAME?
111-91-1	bis(2-Chloroethoxy)methane	ND	ND	µg/kg	--	0/12	13 - 55	N/A	19000	N	N	ND
111-44-4	bis(2-Chloroethyl)ether	ND	ND	µg/kg	--	0/12	13 - 55	N/A	230	C	N	ND
117-81-7	bis(2-Ethylhexyl)phthalate (DEHP)	60 J	320	µg/kg	SS-120: 0-2 ft BGS (5/31/2018)	3/12	54 - 230	320	39000	C	#NAME?	#NAME?
85-68-7	Butyl benzylphthalate (BBP)	ND	ND	µg/kg	--	0/12	23 - 100	N/A	290000	C	N	ND
105-60-2	Caprolactam	ND	ND	µg/kg	--	0/12	80 - 340	N/A	3100000	N	N	ND
86-74-8	**Carbazole**	**37 J**	**320**	**µg/kg**	**SS-101: 0.25-2.25 ft BGS (11/2/2018)**	**5/12**	**21 - 44**	**320**	**--**		**Y**	**AD**
218-01-9	Chrysene	48	1900	µg/kg	SS-101: 0.25-2.25 ft BGS (11/2/2018)	11/12	1.4	1900	110000	C	#NAME?	#NAME?
53-70-3	Dibenz(a,h)anthracene	22	200	µg/kg	SS-101: 0.25-2.25 ft BGS (11/2/2018)	5/12	0.74 - 1.6	200	110	C	#NAME?	#NAME?
132-64-9	Dibenzofuran	21 J	290	µg/kg	SS-120: 0-2 ft BGS (5/31/2018)	8/12	15 - 20	290	7300	N	#NAME?	#NAME?
84-66-2	Diethyl phthalate	ND	ND	µg/kg	--	0/12	33 - 140	N/A	5100000	N	N	ND
131-11-3	Dimethyl phthalate	ND	ND	µg/kg	--	0/12	15 - 64	N/A	5100000 (5)	N	N	ND
84-74-2	Di-n-butylphthalate (DBP)	40 J	53 J	µg/kg	SS-120: 0-2 ft BGS (5/31/2018)	2/12	23 - 100	53 J	630000	N	#NAME?	#NAME?
117-84-0	Di-n-octyl phthalate (DnOP)	ND	ND	µg/kg	--	0/12	30 - 130	N/A	63000	N	N	ND
206-44-0	Fluoranthene	22	3800	µg/kg	SS-101: 0.25-2.25 ft BGS (11/2/2018)	12/12	--	3800	240000	N	#NAME?	#NAME?
86-73-7	Fluorene	5.1 J	220	µg/kg	SS-101: 0.25-2.25 ft BGS (11/2/2018)	8/12	0.61 - 1.2	220	240000	N	#NAME?	#NAME?
118-74-1	Hexachlorobenzene	ND	ND	µg/kg	--	0/12	2.2 - 13	N/A	210	C	N	ND
87-68-3	Hexachlorobutadiene	ND	ND	µg/kg	--	0/12	13 - 55	N/A	1200	C	N	ND
77-47-4	Hexachlorocyclopentadiene	ND	ND	µg/kg	--	0/12	66 - 280	N/A	180	N	N	ND
67-72-1	Hexachloroethane	ND	ND	µg/kg	--	0/12	9.6 - 41	N/A	1800	C	N	ND
193-39-5	Indeno(1,2,3-cd)pyrene	25	650	µg/kg	SS-101: 0.25-2.25 ft BGS (11/2/2018)	10/12	0.4 - 0.44	650	1100	C	#NAME?	#NAME?
78-59-1	Isophorone	ND	ND	µg/kg	--	0/12	13 - 55	N/A	570000	C	N	ND
91-20-3	Naphthalene	9.5 J	740	µg/kg	SS-120: 0-2 ft BGS (5/31/2018)	12/12	--	740	3800	C	#NAME?	#NAME?
98-95-3	Nitrobenzene	ND	ND	µg/kg	--	0/12	14 - 59	N/A	5100	C	N	ND
621-64-7	N-Nitrosodi-n-propylamine	ND	ND	µg/kg	--	0/12	12 - 50	N/A	78	C	N	ND
86-30-6	N-Nitrosodiphenylamine	ND	ND	µg/kg	--	0/12	13 - 55	N/A	110000	C	N	ND
87-86-5	Pentachlorophenol	ND	ND	µg/kg	--	0/12	62 - 260	N/A	1000	C	N	ND
85-01-8	Phenanthrene	19	2100	µg/kg	SS-101: 0.25-2.25 ft BGS (11/2/2018)	12/12	--	2100	180000 (5)	N	#NAME?	#NAME?
108-95-2	Phenol	ND	ND	µg/kg	--	0/12	8.5 - 37	N/A	1900000	N	N	ND
129-00-0	Pyrene	19	2900	µg/kg	SS-101: 0.25-2.25 ft BGS (11/2/2018)	12/12	--	2900	180000	N	#NAME?	#NAME?
	Metals											
7429-90-5	Aluminum	1600	9800	mg/kg	SS-109: 0-2 ft BGS (5/30/2018)	12/12	--	9800	7700	N	#NAME?	#NAME?
7440-36-0	Antimony	0.20 J	1.2	mg/kg	SS-98: 0.17-2.17 ft BGS (5/31/2018)	10/12	0.14	1.2	3.1	N	#NAME?	#NAME?
7440-38-2	Arsenic	5.2	59	mg/kg	SS-109: 0-2 ft BGS (5/30/2018)	12/12	--	59	0.68	C	#NAME?	#NAME?
7440-39-3	Barium	41	350	mg/kg	SS-109: 0-2 ft BGS (5/30/2018)	12/12	--	350	1500	N	#NAME?	#NAME?
7440-41-7	Beryllium	0.25	4.1	mg/kg	SS-104: 0-2 ft BGS (5/30/2018)	12/12	--	4.1	16	N	#NAME?	#NAME?
7440-43-9	Cadmium	0.057 J	0.74	mg/kg	SS-100: 0.17-2.17 ft BGS (11/2/2018)	11/12	0.047	0.74	7.1	N	#NAME?	#NAME?
7440-70-2	Calcium	1900	100000	mg/kg	SS-103: 0-2 ft BGS (5/30/2018)	12/12	--	100000	--		N	NAT
16065-83-1	Chromium III (trivalent)	3.9	140	mg/kg	SS-98: 0.17-2.17 ft BGS (5/31/2018)	12/12	--	140	12000	N	#NAME?	#NAME?

Table 9

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU05-EU08 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU05-EU08 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Metals (cont.'d)											
18540-29-9	Chromium VI (hexavalent)	0.29 J	1.5	mg/kg	SS-104: 0-2 ft BGS (5/30/2018)	5/12	0.26 - 0.36	1.5	0.3	C	#NAME?	#NAME?
7440-48-4	Cobalt	3.6	12	mg/kg	SS-104: 0-2 ft BGS (5/30/2018)	12/12	--	12	2.3	N	#NAME?	#NAME?
7440-50-8	Copper	13	960	mg/kg	SS-98: 0.17-2.17 ft BGS (5/31/2018)	12/12	--	960	310	N	#NAME?	#NAME?
57-12-5	Cyanide (total)	0.24 J	0.79	mg/kg	SS-120: 0-2 ft BGS (5/31/2018)	7/12	0.18 - 0.31	0.79	2.3	N	#NAME?	#NAME?
7439-89-6	Iron	4600	18000	mg/kg	SS-98: 0.17-2.17 ft BGS (5/31/2018)	12/12	--	18000	5500	N	#NAME?	#NAME?
7439-92-1	Lead	1.7	120	mg/kg	SS-98: 0.17-2.17 ft BGS (5/31/2018)	12/12	--	120	400	C	#NAME?	#NAME?
7439-92-1	Lead - coarse fraction	23 J	41 J	mg/kg	SS-103: 0-2 ft BGS (5/30/2018)	2/2	--	41 J	400	C	#NAME?	#NAME?
7439-92-1	Lead - fine fraction	31	310	mg/kg	SS-123: 0.3-2.3 ft BGS (5/31/2018)	3/3	--	310	400	C	#NAME?	#NAME?
7439-92-1	Lead - total (calculated by fine/coarse fraction)	27	37	mg/kg	SS-103: 0-2 ft BGS (5/30/2018)	2/2	--	37	400	C	#NAME?	#NAME?
7439-95-4	Magnesium	340	55000	mg/kg	SS-123: 0.3-2.3 ft BGS (5/31/2018)	12/12	--	55000	--		N	NAT
7439-96-5	Manganese	31	950 J	mg/kg	SS-101: 0.25-2.25 ft BGS (11/2/2018)	12/12	--	950 J	180	N	#NAME?	#NAME?
7439-97-6	Mercury	0.024 J	0.5	mg/kg	SS-109: 0-2 ft BGS (5/30/2018)	11/12	0.021 - 0.024	0.5	1.1	N	#NAME?	#NAME?
7440-02-0	Nickel	8.2	700	mg/kg	SS-98: 0.17-2.17 ft BGS (5/31/2018)	12/12	--	700	150	N	#NAME?	#NAME?
7440-09-7	Potassium	200 J	2200	mg/kg	SS-109: 0-2 ft BGS (5/30/2018)	12/12	--	2200	--		N	NAT
7782-49-2	Selenium	0.29 J	6.3	mg/kg	SS-109: 0-2 ft BGS (5/30/2018)	12/12	--	6.3	39	N	#NAME?	#NAME?
7440-22-4	Silver	0.031 J	0.52	mg/kg	SS-98: 0.17-2.17 ft BGS (5/31/2018)	10/12	0.024	0.52	39	N	#NAME?	#NAME?
7440-23-5	Sodium	68 J	290	mg/kg	SS-109: 0-2 ft BGS (5/30/2018)	12/12	--	290	--		N	NAT
7440-28-0	Thallium	0.063 J	2.7	mg/kg	SS-109: 0-2 ft BGS (5/30/2018)	12/12	--	2.7	0.078	N	#NAME?	#NAME?
7440-62-2	Vanadium	10	45	mg/kg	SS-101: 0.25-2.25 ft BGS (11/2/2018)	12/12	--	45	39	N	#NAME?	#NAME?
7440-66-6	Zinc	4.9	260	mg/kg	SS-98: 0.17-2.17 ft BGS (5/31/2018)	12/12	--	260	2300	N	#NAME?	#NAME?
	Polychlorinated Biphenyls											
12674-11-2	Aroclor-1016 (PCB-1016)	ND	ND	µg/kg	--	0/12	23 - 34	N/A	410	N	N	ND
11104-28-2	Aroclor-1221 (PCB-1221)	ND	ND	µg/kg	--	0/12	25 - 37	N/A	200	C	N	ND
11141-16-5	Aroclor-1232 (PCB-1232)	ND	ND	µg/kg	--	0/12	24 - 35	N/A	170	C	N	ND
53469-21-9	Aroclor-1242 (PCB-1242)	ND	ND	µg/kg	--	0/12	20 - 29	N/A	230	C	N	ND
12672-29-6	Aroclor-1248 (PCB-1248)	400	400	µg/kg	SS-99: 0.25-2.25 ft BGS (11/2/2018)	1/12	25 - 37	400	230	C	#NAME?	#NAME?
11097-69-1	Aroclor-1254 (PCB-1254)	78	160	µg/kg	SS-100: 0.17-2.17 ft BGS (11/2/2018)	3/12	25 - 35	160	120	C	#NAME?	#NAME?
11096-82-5	Aroclor-1260 (PCB-1260)	74	74	µg/kg	SS-99: 0.25-2.25 ft BGS (11/2/2018)	1/12	23 - 34	74	240	C	#NAME?	#NAME?
	Pesticides											
72-54-8	4,4'-DDD	3.7 J	14	µg/kg	SS-120: 0-2 ft BGS (5/31/2018)	2/12	1.6 - 35	14	190	C	#NAME?	#NAME?
72-55-9	4,4'-DDE	ND	ND	µg/kg	--	0/12	1.7 - 36	N/A	2000	C	N	ND
50-29-3	4,4'-DDT	1.2 J	2.0 J	µg/kg	SS-100: 0.17-2.17 ft BGS (11/2/2018)	2/12	1.3 - 27	2.0 J	1900	C	#NAME?	#NAME?
309-00-2	Aldrin	ND	ND	µg/kg	--	0/12	0.85 - 18	N/A	39	C	N	ND
319-84-6	alpha-BHC	ND	ND	µg/kg	--	0/12	1 - 22	N/A	86	C	N	ND
5103-71-9	alpha-Chlordane	ND	ND	µg/kg	--	0/12	1.7 - 36	N/A	1700	C	N	ND
319-85-7	beta-BHC	ND	ND	µg/kg	--	0/12	1.9 - 41	N/A	300	C	N	ND
319-86-8	delta-BHC	ND	ND	µg/kg	--	0/12	1.9 - 40	N/A	300	C	N	ND
60-57-1	Dieldrin	ND	ND	µg/kg	--	0/12	1.2 - 26	N/A	34	C	N	ND

Table 9

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU05-EU08 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU05-EU08 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Pesticides (cont.'d)											
959-98-8	Endosulfan I	ND	ND	µg/kg	--	0/12	1.3 - 29	N/A	47000	N	N	ND
33213-65-9	Endosulfan II	3.7 J	3.7 J	µg/kg	SS-120: 0-2 ft BGS (5/31/2018)	1/12	1.6 - 35	3.7 J	47000	N	#NAME?	#NAME?
1031-07-8	Endosulfan sulfate	ND	ND	µg/kg	--	0/12	1.4 - 31	N/A	47000	N	N	ND
72-20-8	Endrin	ND	ND	µg/kg	--	0/12	2.1 - 45	N/A	1900	N	N	ND
7421-93-4	Endrin aldehyde	1.8 NJ	1.8 NJ	µg/kg	SS-120: 0-2 ft BGS (5/31/2018)	1/12	1.4 - 31	1.8 NJ	1900	N	#NAME?	#NAME?
53494-70-5	Endrin ketone	3.6 J	3.6 J	µg/kg	SS-120: 0-2 ft BGS (5/31/2018)	1/12	0.98 - 21	3.6 J	1900	N	#NAME?	#NAME?
58-89-9	gamma-BHC (lindane)	ND	ND	µg/kg	--	0/12	2 - 43	N/A	570	C	N	ND
5103-74-2	gamma-Chlordane	ND	ND	µg/kg	--	0/12	1.4 - 29	N/A	1700	C	N	ND
76-44-8	Heptachlor	ND	ND	µg/kg	--	0/12	1.7 - 38	N/A	130	C	N	ND
1024-57-3	Heptachlor epoxide	ND	ND	µg/kg	--	0/12	1.6 - 34	N/A	70	C	N	ND
72-43-5	Methoxychlor	ND	ND	µg/kg	--	0/12	7.2 - 160	N/A	32000	N	N	ND
8001-35-2	Toxaphene	ND	ND	µg/kg	--	0/12	28 - 600	N/A	490	C	N	ND
	Asbestos											
1332-21-4	Asbestos	ND	ND	%	--	0/3	0.25	N/A	--		N	ND

Notes:

(1) Minimum/maximum detected concentration.
(2) Based on data collected from sampling locations: SS-98, SS-99, SS-100, SS-101, SS-102, SS-103, SS-104, SS-109, SS-112, SS-116, SS-120, SS-123, SS-158-AS, SS-159-AS, SS-160-AS.
(3) Regional Screening Level (RSL) Summary Table (TR = 1E-06, HI = 0.1) , Residential Soil, November 2018.
(4) Rationale Codes
Selection Reason: Maximum detected above Screening Value (ASV)
Analyte Detected and no Screening Value available (AD)
Deletion Reason: Maximum detected below Screening Value (BSV)
Naturally Occurring (NAT)
(5) No screening value available, surrogate screening value implemented as follows:

Chemical		Surrogate
1,3-dichlorobenzene	-	1,2-dichlorobenzene
methyl cyclohexane	-	cyclohexane
3&4-methylphenol	-	3-methylphenol
acenaphthylene	-	acenaphthene
benzo(g,h,i)perylene	-	pyrene
phenanthrene	-	pyrene
dimethylphthalate	-	diethylphthalate

Defintions:

-- = Not Available
N = Noncarcinogen
C = Carcinogen
Y = Yes
N = No
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.

Table 10

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU05-EU08 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU05-EU08 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Volatile Organic Compounds											
71-55-6	1,1,1-Trichloroethane	ND	ND	µg/kg	--	0/21	0.7 - 2.5	N/A	810000	N	N	ND
79-34-5	1,1,2,2-Tetrachloroethane	ND	ND	µg/kg	--	0/16	1.2 - 4.4	N/A	600	C	N	ND
79-00-5	1,1,2-Trichloroethane	ND	ND	µg/kg	--	0/21	0.97 - 3.5	N/A	150	N	N	ND
75-34-3	1,1-Dichloroethane	ND	ND	µg/kg	--	0/21	0.59 - 2.1	N/A	3.6	C	N	ND
75-35-4	1,1-Dichloroethene	ND	ND	µg/kg	--	0/21	0.77 - 2.8	N/A	23000	N	N	ND
120-82-1	1,2,4-Trichlorobenzene	ND	ND	µg/kg	--	0/16	0.49 - 1.8	N/A	5800	N	N	ND
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	ND	µg/kg	--	0/16	3.1 - 11	N/A	5.3	C	N	ND
106-93-4	1,2-Dibromoethane (Ethylene dibromide)	ND	ND	µg/kg	--	0/21	0.66 - 2.4	N/A	36	C	N	ND
95-50-1	1,2-Dichlorobenzene	ND	ND	µg/kg	--	0/16	0.95 - 3.4	N/A	180000	N	N	ND
107-06-2	1,2-Dichloroethane	ND	ND	µg/kg	--	0/21	0.66 - 2.4	N/A	460	C	N	ND
78-87-5	1,2-Dichloropropane	ND	ND	µg/kg	--	0/21	0.73 - 2.6	N/A	1600	N	N	ND
541-73-1	1,3-Dichlorobenzene	ND	ND	µg/kg	--	0/16	0.7 - 2.5	N/A	180000 (5)	N	N	ND
106-46-7	1,4-Dichlorobenzene	ND	ND	µg/kg	--	0/16	0.75 - 2.7	N/A	2600	C	N	ND
78-93-3	2-Butanone (Methyl ethyl ketone) (MEK)	3.2 J	38 J	µg/kg	BH132-18: 6.5-8.5 ft BGS (5/31/2018)	8/21	3 - 6.8	38 J	2700000	N	N	BSV
591-78-6	2-Hexanone	ND	ND	µg/kg	--	0/21	3.5 - 13	N/A	20000	N	N	ND
108-10-1	4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ND	ND	µg/kg	--	0/21	3.2 - 11	N/A	3300000	N	N	ND
67-64-1	Acetone	19 J	250 J	µg/kg	BH132-18: 6.5-8.5 ft BGS (5/31/2018)	12/21	18 - 35	250 J	6100000	N	N	BSV
71-43-2	Benzene	ND	ND	µg/kg	--	0/21	0.6 - 2.2	N/A	1200	C	N	ND
75-27-4	Bromodichloromethane	ND	ND	µg/kg	--	0/21	0.58 - 2.1	N/A	290	C	N	ND
75-25-2	Bromoform	ND	ND	µg/kg	--	0/21	2 - 7.4	N/A	19000	C	N	ND
74-83-9	Bromomethane (Methyl bromide)	ND	ND	µg/kg	--	0/21	0.84 - 3.1	N/A	680	N	N	ND
75-15-0	Carbon disulfide	2.8 J	2.8 J	µg/kg	BH122-18: 6-8 ft BGS (5/31/2018)	1/21	0.99 - 3.6	2.8 J	77000	N	N	BSV
56-23-5	Carbon tetrachloride	ND	ND	µg/kg	--	0/21	2.8 - 10	N/A	650	C	N	ND
108-90-7	Chlorobenzene	ND	ND	µg/kg	--	0/21	0.78 - 2.8	N/A	28000	N	N	ND
75-00-3	Chloroethane	ND	ND	µg/kg	--	0/21	1 - 3.8	N/A	1400000	N	N	ND
67-66-3	Chloroform (Trichloromethane)	ND	ND	µg/kg	--	0/21	0.67 - 2.4	N/A	320	C	N	ND
74-87-3	Chloromethane (Methyl chloride)	ND	ND	µg/kg	--	0/21	0.89 - 3.2	N/A	11000	N	N	ND
156-59-2	cis-1,2-Dichloroethene	5	5	µg/kg	BH127-18: 7-9 ft BGS (5/30/2018)	1/21	0.56 - 2	5	16000	N	N	BSV
10061-01-5	cis-1,3-Dichloropropene	ND	ND	µg/kg	--	0/21	1.2 - 4.4	N/A	1800	C	N	ND
110-82-7	Cyclohexane	4.8 J	4.8 J	µg/kg	BH132-18: 6.5-8.5 ft BGS (5/31/2018)	1/21	1.2 - 2.6	4.8 J	650000	N	N	BSV
124-48-1	Dibromochloromethane	ND	ND	µg/kg	--	0/21	2.4 - 8.6	N/A	8300	C	N	ND
75-71-8	Dichlorodifluoromethane (CFC-12)	ND	ND	µg/kg	--	0/21	0.8 - 2.9	N/A	8700	N	N	ND
100-41-4	Ethylbenzene	3.6 J	3.6 J	µg/kg	BH132-18: 6.5-8.5 ft BGS (5/31/2018)	1/21	0.89 - 2	3.6 J	5800	C	N	BSV
98-82-8	Isopropyl benzene	ND	ND	µg/kg	--	0/21	0.71 - 2.6	N/A	190000	N	N	ND
79-20-9	Methyl acetate	ND	ND	µg/kg	--	0/21	2.9 - 11	N/A	7800000	N	N	ND
108-87-2	Methyl cyclohexane	6.7 J	6.7 J	µg/kg	BH132-18: 6.5-8.5 ft BGS (5/31/2018)	1/21	1 - 2.4	6.7 J	650000 (5)	N	N	BSV
1634-04-4	Methyl tert butyl ether (MTBE)	ND	ND	µg/kg	--	0/21	0.7 - 2.5	N/A	47000	C	N	ND
75-09-2	Methylene chloride	ND	ND	µg/kg	--	0/21	10 - 37	N/A	35000	N	N	ND
100-42-5	Styrene	ND	ND	µg/kg	--	0/21	0.99 - 3.6	N/A	600000	N	N	ND
127-18-4	Tetrachloroethene	1.6 J	8.4	µg/kg	BH130-18: 9.5-11.5 ft BGS (5/30/2018)	4/21	0.62 - 1.4	8.4	8100	N	N	BSV
108-88-3	Toluene	1.4 J	8.9 J	µg/kg	BH132-18: 6.5-8.5 ft BGS (5/31/2018)	3/21	0.66 - 1.4	8.9 J	490000	N	N	BSV
156-60-5	trans-1,2-Dichloroethene	ND	ND	µg/kg	--	0/21	0.4 - 1.4	N/A	160000	N	N	ND

Table 10

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU05-EU08 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU05-EU08 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Volatile Organic Compounds (cont.'d)											
10061-02-6	trans-1,3-Dichloropropene	ND	ND	µg/kg	--	0/21	0.88 - 3.2	N/A	1800	C	N	ND
79-01-6	Trichloroethene	ND	ND	µg/kg	--	0/21	0.54 - 2	N/A	410	N	N	ND
75-69-4	Trichlorofluoromethane (CFC-11)	ND	ND	µg/kg	--	0/21	0.92 - 3.3	N/A	2300000	N	N	ND
76-13-1	Trifluorotrichloroethane (CFC-113)	ND	ND	µg/kg	--	0/21	1.1 - 4	N/A	670000	N	N	ND
75-01-4	Vinyl chloride	ND	ND	µg/kg	--	0/21	0.71 - 2.6	N/A	59	C	N	ND
1330-20-7	Xylenes (total)	16 J	16 J	µg/kg	BH132-18: 6.5-8.5 ft BGS (5/31/2018)	1/21	1.4 - 3.1	16 J	58000	N	N	BSV
	Semi-Volatiles Organic Compounds											
108-60-1	2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ND	ND	µg/kg	--	0/21	11 - 52	N/A	310000	N	N	ND
95-95-4	2,4,5-Trichlorophenol	ND	ND	µg/kg	--	0/21	73 - 360	N/A	630000	N	N	ND
88-06-2	2,4,6-Trichlorophenol	ND	ND	µg/kg	--	0/21	68 - 330	N/A	6300	N	N	ND
120-83-2	2,4-Dichlorophenol	ND	ND	µg/kg	--	0/21	47 - 230	N/A	19000	N	N	ND
105-67-9	2,4-Dimethylphenol	ND	ND	µg/kg	--	0/21	43 - 210	N/A	130000	N	N	ND
51-28-5	2,4-Dinitrophenol	ND	ND	µg/kg	--	0/20	150 - 740	N/A	13000	N	N	ND
121-14-2	2,4-Dinitrotoluene	ND	ND	µg/kg	--	0/21	66 - 320	N/A	1700	C	N	ND
606-20-2	2,6-Dinitrotoluene	ND	ND	µg/kg	--	0/21	60 - 290	N/A	360	C	N	ND
91-58-7	2-Chloronaphthalene	ND	ND	µg/kg	--	0/21	15 - 73	N/A	480000	N	N	ND
95-57-8	2-Chlorophenol	ND	ND	µg/kg	--	0/21	11 - 52	N/A	39000	N	N	ND
91-57-6	2-Methylnaphthalene	12	1200	µg/kg	SS-120: 0-2 ft BGS (5/31/2018)	19/21	0.57 - 0.59	1200	240000	N	N	BSV
95-48-7	2-Methylphenol	ND	ND	µg/kg	--	0/21	33 - 160	N/A	320000	N	N	ND
88-74-4	2-Nitroaniline	ND	ND	µg/kg	--	0/21	43 - 210	N/A	63000	n	N	ND
88-75-5	2-Nitrophenol	ND	ND	µg/kg	--	0/21	14 - 68	N/A	--		N	ND
3/4-Cresol	3&4-Methylphenol	ND	ND	µg/kg	--	0/21	31 - 150	N/A	320000 (5)	N	N	ND
91-94-1	3,3'-Dichlorobenzidine	ND	ND	µg/kg	--	0/21	46 - 220	N/A	1200	c	N	ND
99-09-2	3-Nitroaniline	ND	ND	µg/kg	--	0/21	52 - 260	N/A	--		N	ND
534-52-1	4,6-Dinitro-2-methylphenol	ND	ND	µg/kg	--	0/21	85 - 420	N/A	510	N	N	ND
101-55-3	4-Bromophenyl phenyl ether	ND	ND	µg/kg	--	0/21	15 - 73	N/A	--		N	ND
59-50-7	4-Chloro-3-methylphenol	ND	ND	µg/kg	--	0/21	48 - 230	N/A	630000	N	N	ND
106-47-8	4-Chloroaniline	ND	ND	µg/kg	--	0/21	32 - 160	N/A	2700	C	N	ND
7005-72-3	4-Chlorophenyl phenyl ether	ND	ND	µg/kg	--	0/21	15 - 73	N/A	--		N	ND
100-01-6	4-Nitroaniline	ND	ND	µg/kg	--	0/21	64 - 310	N/A	25000	N	N	ND
100-02-7	4-Nitrophenol	ND	ND	µg/kg	--	0/20	100 - 490	N/A	--		N	ND
83-32-9	Acenaphthene	6.8 J	170	µg/kg	SS-101: 0.25-2.25 ft BGS (11/2/2018)	10/21	0.83 - 3.3	170	360000	N	N	BSV
208-96-8	Acenaphthylene	4.5 J	95	µg/kg	SS-123: 0.3-2.3 ft BGS (5/31/2018)	15/21	0.4 - 18	95	360000 (5)	N	N	BSV
98-86-2	Acetophenone	12 J	95 J	µg/kg	SS-120: 0-2 ft BGS (5/31/2018)	5/21	12 - 57	95 J	780000	N	N	BSV
120-12-7	Anthracene	4.5 J	580	µg/kg	SS-101: 0.25-2.25 ft BGS (11/2/2018)	17/21	0.89 - 1.8	580	1800000	N	N	BSV
1912-24-9	Atrazine	ND	ND	µg/kg	--	0/21	38 - 190	N/A	2400	C	N	ND
100-52-7	Benzaldehyde	32 J	94 J	µg/kg	SS-120: 0-2 ft BGS (5/31/2018)	3/21	24 - 120	94 J	170000	N	N	BSV
56-55-3	**Benzo(a)anthracene**	**8**	**1900**	**µg/kg**	**SS-101: 0.25-2.25 ft BGS (11/2/2018)**	**20/21**	**0.72**	**1900**	**1100**	**C**	**Y**	**ASV**
50-32-8	**Benzo(a)pyrene**	**5.1 J**	**1600**	**µg/kg**	**SS-102: 0-2 ft BGS (5/30/2018)**	**21/21**	**--**	**1600**	**110**	**C**	**Y**	**ASV**
205-99-2	**Benzo(b)fluoranthene**	**8.5**	**2100**	**µg/kg**	**SS-102: 0-2 ft BGS (5/30/2018)**	**21/21**	**--**	**2100**	**1100**	**C**	**Y**	**ASV**

Table 10

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU05-EU08 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU05-EU08 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Semi-Volatiles Organic Compounds (cont.'d)											
191-24-2	Benzo(g,h,i)perylene	6.3 J	640	µg/kg	SS-101: 0.25-2.25 ft BGS (11/2/2018)	18/21	0.4 - 0.79	640	180000 (5)	N	N	BSV
207-08-9	Benzo(k)fluoranthene	24	840	µg/kg	SS-101: 0.25-2.25 ft BGS (11/2/2018)	14/21	0.78 - 1.5	840	11000	C	N	BSV
92-52-4	Biphenyl (1,1-Biphenyl)	22 J	130 J	µg/kg	BH132-18: 6.5-8.5 ft BGS (5/31/2018)	5/21	18 - 89	130 J	4700	N	N	BSV
111-91-1	bis(2-Chloroethoxy)methane	ND	ND	µg/kg	--	0/21	13 - 63	N/A	19000	N	N	ND
111-44-4	bis(2-Chloroethyl)ether	ND	ND	µg/kg	--	0/21	13 - 63	N/A	230	C	N	ND
117-81-7	bis(2-Ethylhexyl)phthalate (DEHP)	60 J	320	µg/kg	SS-120: 0-2 ft BGS (5/31/2018)	5/21	54 - 270	320	39000	C	N	BSV
85-68-7	Butyl benzylphthalate (BBP)	ND	ND	µg/kg	--	0/21	23 - 110	N/A	290000	C	N	ND
105-60-2	Caprolactam	ND	ND	µg/kg	--	0/21	80 - 390	N/A	3100000	N	N	ND
86-74-8	**Carbazole**	**37 J**	**320**	**µg/kg**	**SS-101: 0.25-2.25 ft BGS (11/2/2018)**	**8/21**	**21 - 99**	**320**	**--**		**Y**	**AD**
218-01-9	Chrysene	8.3	1900	µg/kg	SS-101: 0.25-2.25 ft BGS (11/2/2018)	19/21	1.3 - 1.4	1900	110000	C	N	BSV
53-70-3	**Dibenz(a,h)anthracene**	**22**	**200**	**µg/kg**	**SS-101: 0.25-2.25 ft BGS (11/2/2018)**	**8/21**	**0.72 - 3.4**	**200**	**110**	**C**	**Y**	**ASV**
132-64-9	Dibenzofuran	21 J	290	µg/kg	SS-120: 0-2 ft BGS (5/31/2018)	11/21	14 - 68	290	7300	N	N	BSV
84-66-2	Diethyl phthalate	ND	ND	µg/kg	--	0/21	33 - 160	N/A	5100000	N	N	ND
131-11-3	Dimethyl phthalate	ND	ND	µg/kg	--	0/21	15 - 73	N/A	5100000 (5)	N	N	ND
84-74-2	Di-n-butylphthalate (DBP)	30 J	53 J	µg/kg	SS-120: 0-2 ft BGS (5/31/2018)	3/21	23 - 110	53 J	630000	N	N	BSV
117-84-0	Di-n-octyl phthalate (DnOP)	ND	ND	µg/kg	--	0/21	30 - 150	N/A	63000	N	N	ND
206-44-0	Fluoranthene	9.8	3800	µg/kg	SS-101: 0.25-2.25 ft BGS (11/2/2018)	21/21	--	3800	240000	N	N	BSV
86-73-7	Fluorene	5.1 J	220	µg/kg	SS-101: 0.25-2.25 ft BGS (11/2/2018)	12/21	0.58 - 1.2	220	240000	N	N	BSV
118-74-1	Hexachlorobenzene	36	36	µg/kg	BH125-18: 7-9 ft BGS (5/30/2018)	1/21	2.2 - 13	36	210	C	N	BSV
87-68-3	Hexachlorobutadiene	ND	ND	µg/kg	--	0/21	13 - 63	N/A	1200	C	N	ND
77-47-4	Hexachlorocyclopentadiene	ND	ND	µg/kg	--	0/21	66 - 320	N/A	180	N	N	ND
67-72-1	Hexachloroethane	ND	ND	µg/kg	--	0/21	9.6 - 47	N/A	1800	C	N	ND
193-39-5	Indeno(1,2,3-cd)pyrene	5.4 J	650	µg/kg	SS-101: 0.25-2.25 ft BGS (11/2/2018)	18/21	0.4 - 0.44	650	1100	C	N	BSV
78-59-1	Isophorone	110 J	110 J	µg/kg	BH128-18: 13-15 ft BGS (5/30/2018)	1/21	13 - 63	110 J	570000	C	N	BSV
91-20-3	Naphthalene	9.5 J	740	µg/kg	SS-120: 0-2 ft BGS (5/31/2018)	18/21	0.94 - 0.97	740	3800	C	N	BSV
98-95-3	Nitrobenzene	ND	ND	µg/kg	--	0/21	14 - 68	N/A	5100	C	N	ND
621-64-7	N-Nitrosodi-n-propylamine	ND	ND	µg/kg	--	0/21	12 - 57	N/A	78	C	N	ND
86-30-6	N-Nitrosodiphenylamine	ND	ND	µg/kg	--	0/21	13 - 63	N/A	110000	C	N	ND
87-86-5	Pentachlorophenol	860	860	µg/kg	BH126-18: 10-12 ft BGS (5/30/2018)	1/21	62 - 300	860	1000	C	N	BSV
85-01-8	Phenanthrene	6.3 J	2100	µg/kg	SS-101: 0.25-2.25 ft BGS (11/2/2018)	21/21	--	2100	180000 (5)	N	N	BSV
108-95-2	Phenol	ND	ND	µg/kg	--	0/21	8.5 - 42	N/A	1900000	N	N	ND
129-00-0	Pyrene	10	2900	µg/kg	SS-101: 0.25-2.25 ft BGS (11/2/2018)	21/21	--	2900	180000	N	N	BSV
	Metals											
7429-90-5	**Aluminum**	**1600**	**12000**	**mg/kg**	**BH127-18: 7-9 ft BGS (5/30/2018)**	**21/21**	**--**	**12000**	**7700**	**N**	**Y**	**ASV**
7440-36-0	**Antimony**	**0.16 J**	**5.4 J**	**mg/kg**	**BH125-18: 7-9 ft BGS (5/30/2018)**	**18/21**	**0.14 - 0.25**	**5.4 J**	**3.1**	**N**	**Y**	**ASV**
7440-38-2	**Arsenic**	**4.2**	**59**	**mg/kg**	**SS-109: 0-2 ft BGS (5/30/2018)**	**21/21**	**--**	**59**	**0.68**	**C**	**Y**	**ASV**
7440-39-3	Barium	41	1000	mg/kg	BH125-18: 7-9 ft BGS (5/30/2018)	21/21	--	1000	1500	N	N	BSV
7440-41-7	Beryllium	0.19	4.1	mg/kg	SS-104: 0-2 ft BGS (5/30/2018)	21/21	--	4.1	16	N	N	BSV
7440-43-9	Cadmium	0.057 J	0.74	mg/kg	SS-100: 0.17-2.17 ft BGS (11/2/2018)	20/21	0.047	0.74	7.1	N	N	BSV
7440-70-2	Calcium	1900	320000	mg/kg	BH128-18: 13-15 ft BGS (5/30/2018)	21/21	--	320000	--		N	NAT
16065-83-1	Chromium III (trivalent)	3.9	140	mg/kg	SS-98: 0.17-2.17 ft BGS (5/31/2018)	21/21	--	140	12000	N	N	BSV

Table 10

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU05-EU08 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU05-EU08 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Metals (cont.'d)											
18540-29-9	**Chromium VI (hexavalent)**	**0.29 J**	**7.5 J**	**mg/kg**	**BH132-18: 6.5-8.5 ft BGS (5/31/2018)**	**9/21**	**0.26 - 0.57**	**7.5 J**	**0.3**	**C**	**Y**	**ASV**
7440-48-4	**Cobalt**	**2.4**	**12**	**mg/kg**	**SS-104: 0-2 ft BGS (5/30/2018)**	**21/21**	**--**	**12**	**2.3**	**N**	**Y**	**ASV**
7440-50-8	**Copper**	**9.9**	**960**	**mg/kg**	**SS-98: 0.17-2.17 ft BGS (5/31/2018)**	**21/21**	**--**	**960**	**310**	**N**	**Y**	**ASV**
57-12-5	Cyanide (total)	0.22 J	0.83	mg/kg	BH128-18: 13-15 ft BGS (5/30/2018)	11/21	0.18 - 0.31	0.83	2.3	N	N	BSV
7439-89-6	**Iron**	**4300**	**23000**	**mg/kg**	**BH127-18: 7-9 ft BGS (5/30/2018)**	**21/21**	**--**	**23000**	**5500**	**N**	**Y**	**ASV**
7439-92-1	Lead	1.7	270	mg/kg	BH126-18: 10-12 ft BGS (5/30/2018)	21/21	--	270	400	C	N	BSV
7439-92-1	Lead - coarse fraction	23 J	41 J	mg/kg	SS-103: 0-2 ft BGS (5/30/2018)	2/2	--	41 J	400	C	N	BSV
7439-92-1	Lead - fine fraction	31	310	mg/kg	SS-123: 0.3-2.3 ft BGS (5/31/2018)	3/3	--	310	400	C	N	BSV
7439-92-1	Lead - total (calculated by fine/coarse fraction)	27	37	mg/kg	SS-103: 0-2 ft BGS (5/30/2018)	2/2	--	37	400	C	N	BSV
7439-95-4	Magnesium	340	55000	mg/kg	SS-123: 0.3-2.3 ft BGS (5/31/2018)	21/21	--	55000	--		N	NAT
7439-96-5	**Manganese**	**31**	**1000**	**mg/kg**	**BH130-18: 9.5-11.5 ft BGS (5/30/2018)**	**21/21**	**--**	**1000**	**180**	**N**	**Y**	**ASV**
7439-97-6	Mercury	0.024 J	0.5	mg/kg	SS-109: 0-2 ft BGS (5/30/2018)	19/21	0.021 - 0.045	0.5	1.1	N	N	BSV
7440-02-0	**Nickel**	**8.2**	**700**	**mg/kg**	**SS-98: 0.17-2.17 ft BGS (5/31/2018)**	**21/21**	**--**	**700**	**150**	**N**	**Y**	**ASV**
7440-09-7	Potassium	200 J	2200	mg/kg	SS-109: 0-2 ft BGS (5/30/2018)	21/21	--	2200	--		N	NAT
7782-49-2	Selenium	0.24 J	6.3	mg/kg	SS-109: 0-2 ft BGS (5/30/2018)	20/21	0.24	6.3	39	N	N	BSV
7440-22-4	Silver	0.031 J	0.52	mg/kg	SS-98: 0.17-2.17 ft BGS (5/31/2018)	19/21	0.024	0.52	39	N	N	BSV
7440-23-5	Sodium	68 J	350	mg/kg	BH129-18: 13-15 ft BGS (5/30/2018)	21/21	--	350	--		N	NAT
7440-28-0	**Thallium**	**0.063 J**	**2.7**	**mg/kg**	**SS-109: 0-2 ft BGS (5/30/2018)**	**20/21**	**0.095**	**2.7**	**0.078**	**N**	**Y**	**ASV**
7440-62-2	**Vanadium**	**10**	**45**	**mg/kg**	**SS-101: 0.25-2.25 ft BGS (11/2/2018)**	**21/21**	**--**	**45**	**39**	**N**	**Y**	**ASV**
7440-66-6	Zinc	4.9	260	mg/kg	SS-98: 0.17-2.17 ft BGS (5/31/2018)	21/21	--	260	2300	N	N	BSV
	Polychlorinated Biphenyls											
12674-11-2	Aroclor-1016 (PCB-1016)	ND	ND	µg/kg	--	0/21	23 - 48	N/A	410	N	N	ND
11104-28-2	Aroclor-1221 (PCB-1221)	ND	ND	µg/kg	--	0/21	25 - 52	N/A	200	C	N	ND
11141-16-5	Aroclor-1232 (PCB-1232)	ND	ND	µg/kg	--	0/21	24 - 50	N/A	170	C	N	ND
53469-21-9	Aroclor-1242 (PCB-1242)	ND	ND	µg/kg	--	0/21	20 - 42	N/A	230	C	N	ND
12672-29-6	**Aroclor-1248 (PCB-1248)**	**74**	**400**	**µg/kg**	**SS-99: 0.25-2.25 ft BGS (11/2/2018)**	**2/21**	**25 - 52**	**400**	**230**	**C**	**Y**	**ASV**
11097-69-1	**Aroclor-1254 (PCB-1254)**	**54**	**160**	**µg/kg**	**SS-100: 0.17-2.17 ft BGS (11/2/2018)**	**4/21**	**25 - 50**	**160**	**120**	**C**	**Y**	**ASV**
11096-82-5	Aroclor-1260 (PCB-1260)	74	74	µg/kg	SS-99: 0.25-2.25 ft BGS (11/2/2018)	1/21	23 - 48	74	240	C	N	BSV
	Pesticides											
72-54-8	4,4'-DDD	3.7 J	14	µg/kg	SS-120: 0-2 ft BGS (5/31/2018)	2/21	1.6 - 35	14	190	C	N	BSV
72-55-9	4,4'-DDE	2.5 J	2.5 J	µg/kg	BH122-18: 6-8 ft BGS (5/31/2018)	1/21	1.7 - 36	2.5 J	2000	C	N	BSV
50-29-3	4,4'-DDT	1.2 J	3.1 J	µg/kg	BH125-18: 7-9 ft BGS (5/30/2018)	4/21	1.3 - 27	3.1 J	1900	C	N	BSV
309-00-2	Aldrin	ND	ND	µg/kg	--	0/21	0.85 - 18	N/A	39	C	N	ND
319-84-6	alpha-BHC	ND	ND	µg/kg	--	0/21	1 - 22	N/A	86	C	N	ND
5103-71-9	alpha-Chlordane	2.3 J	2.3 J	µg/kg	BH122-18: 6-8 ft BGS (5/31/2018)	1/21	1.7 - 36	2.3 J	1700	C	N	BSV
319-85-7	beta-BHC	1.9 NJ	4.5 J	µg/kg	BH127-18: 7-9 ft BGS (5/30/2018)	2/21	1.9 - 41	4.5 J	300	C	N	BSV
319-86-8	delta-BHC	ND	ND	µg/kg	--	0/21	1.9 - 40	N/A	300	C	N	ND
60-57-1	Dieldrin	ND	ND	µg/kg	--	0/21	1.2 - 26	N/A	34	C	N	ND

Table 10

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU05-EU08 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU05-EU08 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Pesticides (cont.'d)											
959-98-8	Endosulfan I	ND	ND	µg/kg	--	0/21	1.3 - 29	N/A	47000	N	N	ND
33213-65-9	Endosulfan II	3.7 J	3.7 J	µg/kg	SS-120: 0-2 ft BGS (5/31/2018)	1/21	1.6 - 35	3.7 J	47000	N	N	BSV
1031-07-8	Endosulfan sulfate	ND	ND	µg/kg	--	0/21	1.4 - 31	N/A	47000	N	N	ND
72-20-8	Endrin	ND	ND	µg/kg	--	0/21	2.1 - 45	N/A	1900	N	N	ND
7421-93-4	Endrin aldehyde	1.8 NJ	1.8 NJ	µg/kg	SS-120: 0-2 ft BGS (5/31/2018)	1/21	1.4 - 31	1.8 NJ	1900	N	N	BSV
53494-70-5	Endrin ketone	3.6 J	3.6 J	µg/kg	SS-120: 0-2 ft BGS (5/31/2018)	1/21	0.98 - 21	3.6 J	1900	N	N	BSV
58-89-9	gamma-BHC (lindane)	ND	ND	µg/kg	--	0/21	2 - 43	N/A	570	C	N	ND
5103-74-2	gamma-Chlordane	ND	ND	µg/kg	--	0/21	1.4 - 29	N/A	1700	C	N	ND
76-44-8	Heptachlor	ND	ND	µg/kg	--	0/21	1.7 - 38	N/A	130	C	N	ND
1024-57-3	Heptachlor epoxide	2.1 J	2.1 J	µg/kg	BH122-18: 6-8 ft BGS (5/31/2018)	1/21	1.6 - 34	2.1 J	70	C	N	BSV
72-43-5	Methoxychlor	ND	ND	µg/kg	--	0/21	7.2 - 160	N/A	32000	N	N	ND
8001-35-2	Toxaphene	ND	ND	µg/kg	--	0/21	28 - 600	N/A	490	C	N	ND
	Asbestos											
1332-21-4	Asbestos	ND	ND	%	--	0/12	0.25 - 1	N/A	--		N	ND

Notes:

(1) Minimum/maximum detected concentration.
(2) Based on data collected from sampling locations: BH122-18 BH125-18, BH126-18, BH127-18, BH129-18, BH130-18, BH132-18, BH133-18, SS-98, SS-99, SS-100, SS-101, SS-102, SS-103, SS-104, SS-109, SS-112, SS-116, SS-120, SS-123, SS-158-AS, SS-159-AS, SS-160-AS.
(3) Regional Screening Level (RSL) Summary Table (TR = 1E-06, HI = 0.1) , Residential Soil, November 2018.
(4) Rationale Codes

Selection Reason: Maximum detected above Screening Value (ASV)
Analyte Detected and no Screening Value available (AD)
Deletion Reason: Maximum detected below Screening Value (BSV)
Naturally Occurring (NAT)

(5) No screening value available, surrogate screening value implemented as follows:

Chemical		Surrogate
1,3-dichlorobenzene	-	1,2-dichlorobenzene
methyl cyclohexane	-	cyclohexane
3&4-methylphenol	-	3-methylphenol
acenaphthylene	-	acenaphthene
benzo(g,h,i)perylene	-	pyrene
phenanthrene	-	pyrene
dimethylphthalate	-	diethylphthalate

Defintions:

-- = Not Available
N = Noncarcinogen
C = Carcinogen
Y = Yes
N = No
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.

Table 11

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU09 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU09 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Volatile Organic Compounds											
71-55-6	1,1,1-Trichloroethane	ND	ND	µg/kg	--	0/6	0.33 - 0.98	N/A	810000	N	N	ND
79-34-5	1,1,2,2-Tetrachloroethane	ND	ND	µg/kg	--	0/5	0.37 - 1.7	N/A	600	C	N	ND
79-00-5	1,1,2-Trichloroethane	ND	ND	µg/kg	--	0/6	0.55 - 1.3	N/A	150	N	N	ND
75-34-3	**1,1-Dichloroethane**	**4.3 J**	**4.3 J**	**µg/kg**	**SS-92: 0-2 ft BGS (10/31/2018)**	**1/6**	**0.47 - 0.72**	**4.3 J**	**3.6**	**C**	**Y**	**ASV**
75-35-4	1,1-Dichloroethene	ND	ND	µg/kg	--	0/6	0.77 - 1.1	N/A	23000	N	N	ND
120-82-1	1,2,4-Trichlorobenzene	ND	ND	µg/kg	--	0/5	0.34 - 0.68	N/A	5800	N	N	ND
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	ND	µg/kg	--	0/5	0.96 - 4.3	N/A	5.3	C	N	ND
106-93-4	1,2-Dibromoethane (Ethylene dibromide)	ND	ND	µg/kg	--	0/6	0.5 - 0.92	N/A	36	C	N	ND
95-50-1	1,2-Dichlorobenzene	ND	ND	µg/kg	--	0/5	0.31 - 1.3	N/A	180000	N	N	ND
107-06-2	1,2-Dichloroethane	ND	ND	µg/kg	--	0/6	0.41 - 0.92	N/A	460	C	N	ND
78-87-5	1,2-Dichloropropane	ND	ND	µg/kg	--	0/6	0.44 - 1	N/A	1600	N	N	ND
541-73-1	1,3-Dichlorobenzene	ND	ND	µg/kg	--	0/5	0.41 - 0.97	N/A	180000 (5)	N	N	ND
106-46-7	1,4-Dichlorobenzene	ND	ND	µg/kg	--	0/5	0.5 - 1.1	N/A	2600	C	N	ND
78-93-3	2-Butanone (Methyl ethyl ketone) (MEK)	6.6 J	41	µg/kg	SS-92: 0-2 ft BGS (10/31/2018)	2/6	1.8 - 3.7	41	2700000	N	N	BSV
591-78-6	2-Hexanone	ND	ND	µg/kg	--	0/6	0.82 - 4.9	N/A	20000	N	N	ND
108-10-1	4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ND	ND	µg/kg	--	0/6	1.3 - 4.4	N/A	3300000	N	N	ND
67-64-1	Acetone	22 J	180	µg/kg	SS-92: 0-2 ft BGS (10/31/2018)	2/6	4.3 - 22	180	6100000	N	N	BSV
71-43-2	Benzene	ND	ND	µg/kg	--	0/6	0.45 - 0.83	N/A	1200	C	N	ND
75-27-4	Bromodichloromethane	ND	ND	µg/kg	--	0/6	0.47 - 0.81	N/A	290	C	N	ND
75-25-2	Bromoform	ND	ND	µg/kg	--	0/6	0.57 - 2.9	N/A	19000	C	N	ND
74-83-9	Bromomethane (Methyl bromide)	ND	ND	µg/kg	--	0/6	0.84 - 1.2	N/A	680	N	N	ND
75-15-0	Carbon disulfide	ND	ND	µg/kg	--	0/6	0.3 - 1.4	N/A	77000	N	N	ND
56-23-5	Carbon tetrachloride	ND	ND	µg/kg	--	0/6	0.35 - 3.9	N/A	650	C	N	ND
108-90-7	Chlorobenzene	ND	ND	µg/kg	--	0/6	0.47 - 1.1	N/A	28000	N	N	ND
75-00-3	Chloroethane	ND	ND	µg/kg	--	0/6	0.54 - 1.5	N/A	1400000	N	N	ND
67-66-3	Chloroform (Trichloromethane)	ND	ND	µg/kg	--	0/6	0.33 - 0.94	N/A	320	C	N	ND
74-87-3	Chloromethane (Methyl chloride)	ND	ND	µg/kg	--	0/6	0.54 - 1.2	N/A	11000	N	N	ND
156-59-2	cis-1,2-Dichloroethene	ND	ND	µg/kg	--	0/6	0.4 - 0.78	N/A	16000	N	N	ND
10061-01-5	cis-1,3-Dichloropropene	ND	ND	µg/kg	--	0/6	0.37 - 1.7	N/A	1800	C	N	ND
110-82-7	Cyclohexane	ND	ND	µg/kg	--	0/6	0.3 - 1.6	N/A	650000	N	N	ND
124-48-1	Dibromochloromethane	ND	ND	µg/kg	--	0/6	0.43 - 3.3	N/A	8300	C	N	ND
75-71-8	Dichlorodifluoromethane (CFC-12)	ND	ND	µg/kg	--	0/6	0.5 - 1.1	N/A	8700	N	N	ND
100-41-4	Ethylbenzene	2.4 J	2.4 J	µg/kg	SS-92: 0-2 ft BGS (10/31/2018)	1/6	0.38 - 1.1	2.4 J	5800	C	N	BSV
98-82-8	Isopropyl benzene	1.1 J	1.1 J	µg/kg	SS-92: 0-2 ft BGS (10/31/2018)	1/6	0.28 - 0.87	1.1 J	190000	N	N	BSV
79-20-9	Methyl acetate	ND	ND	µg/kg	--	0/6	1.7 - 4.1	N/A	7800000	N	N	ND
108-87-2	Methyl cyclohexane	ND	ND	µg/kg	--	0/6	0.33 - 1.5	N/A	650000 (5)	N	N	ND
1634-04-4	Methyl tert butyl ether (MTBE)	ND	ND	µg/kg	--	0/6	0.38 - 0.98	N/A	47000	C	N	ND
75-09-2	Methylene chloride	ND	ND	µg/kg	--	0/6	0.34 - 14	N/A	35000	N	N	ND
100-42-5	Styrene	ND	ND	µg/kg	--	0/6	0.38 - 1.4	N/A	600000	N	N	ND
127-18-4	Tetrachloroethene	ND	ND	µg/kg	--	0/6	0.52 - 0.87	N/A	8100	N	N	ND
108-88-3	Toluene	2.6 J	2.6 J	µg/kg	SS-92: 0-2 ft BGS (10/31/2018)	1/6	0.48 - 0.8	2.6 J	490000	N	N	BSV
156-60-5	trans-1,2-Dichloroethene	ND	ND	µg/kg	--	0/6	0.41 - 0.55	N/A	160000	N	N	ND

Table 11

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU09 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU09 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Volatile Organic Compounds (cont.'d)											
10061-02-6	trans-1,3-Dichloropropene	ND	ND	µg/kg	--	0/6	0.3 - 1.2	N/A	1800	C	N	ND
79-01-6	Trichloroethene	ND	ND	µg/kg	--	0/6	0.56 - 0.75	N/A	410	N	N	ND
75-69-4	Trichlorofluoromethane (CFC-11)	ND	ND	µg/kg	--	0/6	0.34 - 1.3	N/A	2300000	N	N	ND
76-13-1	Trifluorotrichloroethane (CFC-113)	ND	ND	µg/kg	--	0/6	0.69 - 1.5	N/A	670000	N	N	ND
75-01-4	Vinyl chloride	ND	ND	µg/kg	--	0/6	0.4 - 1	N/A	59	C	N	ND
1330-20-7	Xylenes (total)	12	12	µg/kg	SS-92: 0-2 ft BGS (10/31/2018)	1/6	0.57 - 1.6	12	58000	N	N	BSV
	Semi-Volatiles Organic Compounds											
108-60-1	2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ND	ND	µg/kg	--	0/6	10 - 570	N/A	310000	N	N	ND
95-95-4	2,4,5-Trichlorophenol	ND	ND	µg/kg	--	0/6	72 - 3800	N/A	630000	N	N	ND
88-06-2	2,4,6-Trichlorophenol	ND	ND	µg/kg	--	0/6	67 - 3600	N/A	6300	N	N	ND
120-83-2	2,4-Dichlorophenol	ND	ND	µg/kg	--	0/6	46 - 2400	N/A	19000	N	N	ND
105-67-9	2,4-Dimethylphenol	ND	ND	µg/kg	--	0/6	42 - 2200	N/A	130000	N	N	ND
51-28-5	2,4-Dinitrophenol	ND	ND	µg/kg	--	0/6	150 - 7900	N/A	13000	N	N	ND
121-14-2	2,4-Dinitrotoluene	ND	ND	µg/kg	--	0/6	65 - 3500	N/A	1700	C	N	ND
606-20-2	2,6-Dinitrotoluene	ND	ND	µg/kg	--	0/6	59 - 3100	N/A	360	C	N	ND
91-58-7	2-Chloronaphthalene	ND	ND	µg/kg	--	0/6	15 - 780	N/A	480000	N	N	ND
95-57-8	2-Chlorophenol	ND	ND	µg/kg	--	0/6	10 - 560	N/A	39000	N	N	ND
91-57-6	2-Methylnaphthalene	9.7 J	2900	µg/kg	SS-92: 0-2 ft BGS (10/31/2018)	6/6	--	2900	240000	N	N	BSV
95-48-7	2-Methylphenol	ND	ND	µg/kg	--	0/6	33 - 1700	N/A	320000	N	N	ND
88-74-4	2-Nitroaniline	ND	ND	µg/kg	--	0/6	42 - 2200	N/A	63000	n	N	ND
88-75-5	2-Nitrophenol	ND	ND	µg/kg	--	0/6	14 - 720	N/A	--		N	ND
3/4-Cresol	3&4-Methylphenol	ND	ND	µg/kg	--	0/6	30 - 1600	N/A	320000 (5)	N	N	ND
91-94-1	3,3'-Dichlorobenzidine	ND	ND	µg/kg	--	0/6	45 - 2400	N/A	1200	c	N	ND
99-09-2	3-Nitroaniline	ND	ND	µg/kg	--	0/6	51 - 2700	N/A	--		N	ND
106-44-5	4-Methylphenol	ND	ND	µg/kg	--	0/0	--	N/A	630000	N	N	ND
534-52-1	4,6-Dinitro-2-methylphenol	ND	ND	µg/kg	--	0/6	84 - 4500	N/A	510	N	N	ND
101-55-3	4-Bromophenyl phenyl ether	ND	ND	µg/kg	--	0/6	15 - 790	N/A	--		N	ND
59-50-7	4-Chloro-3-methylphenol	ND	ND	µg/kg	--	0/6	47 - 2500	N/A	630000	N	N	ND
106-47-8	4-Chloroaniline	ND	ND	µg/kg	--	0/6	31 - 1700	N/A	2700	C	N	ND
7005-72-3	4-Chlorophenyl phenyl ether	ND	ND	µg/kg	--	0/6	15 - 790	N/A	--		N	ND
100-01-6	4-Nitroaniline	ND	ND	µg/kg	--	0/6	63 - 3300	N/A	25000	N	N	ND
100-02-7	4-Nitrophenol	ND	ND	µg/kg	--	0/6	99 - 5200	N/A	--		N	ND
83-32-9	Acenaphthene	87	5300	µg/kg	SS-86: 0-2 ft BGS (11/2/2017)	3/6	3 - 160	5300	360000	N	N	BSV
208-96-8	Acenaphthylene	6.6 J	60	µg/kg	SS-91: 0.5-2.5 ft BGS (10/31/2018)	3/6	4.2 - 220	60	360000 (5)	N	N	BSV
98-86-2	Acetophenone	ND	ND	µg/kg	--	0/6	12 - 610	N/A	780000	N	N	ND
120-12-7	Anthracene	6.6 J	12000	µg/kg	SS-86: 0-2 ft BGS (11/2/2017)	5/6	130	12000	1800000	N	N	BSV
1912-24-9	Atrazine	ND	ND	µg/kg	--	0/6	38 - 2000	N/A	2400	C	N	ND
100-52-7	Benzaldehyde	ND	ND	µg/kg	--	0/6	24 - 1300	N/A	170000	N	N	ND
56-55-3	**Benzo(a)anthracene**	**34**	**27000**	**µg/kg**	**SS-86: 0-2 ft BGS (11/2/2017)**	**5/6**	**190**	**27000**	**1100**	**C**	**Y**	**ASV**
50-32-8	**Benzo(a)pyrene**	**35**	**17000**	**µg/kg**	**SS-86: 0-2 ft BGS (11/2/2017)**	**5/6**	**520**	**17000**	**110**	**C**	**Y**	**ASV**
205-99-2	**Benzo(b)fluoranthene**	**56**	**25000**	**µg/kg**	**SS-86: 0-2 ft BGS (11/2/2017)**	**6/6**	**--**	**25000**	**1100**	**C**	**Y**	**ASV**

Table 11

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU09 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU09 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Semi-Volatiles Organic Compounds (cont.'d)											
191-24-2	Benzo(g,h,i)perylene	20	8700	µg/kg	SS-86: 0-2 ft BGS (11/2/2017)	6/6	--	8700	180000 (5)	N	N	BSV
207-08-9	Benzo(k)fluoranthene	17	9500	µg/kg	SS-86: 0-2 ft BGS (11/2/2017)	5/6	390	9500	11000	C	N	BSV
92-52-4	Biphenyl (1,1-Biphenyl)	ND	ND	µg/kg	--	0/6	18 - 950	N/A	4700	N	N	ND
111-91-1	bis(2-Chloroethoxy)methane	ND	ND	µg/kg	--	0/6	13 - 1300	N/A	19000	N	N	ND
111-44-4	bis(2-Chloroethyl)ether	ND	ND	µg/kg	--	0/6	13 - 670	N/A	230	C	N	ND
117-81-7	bis(2-Ethylhexyl)phthalate (DEHP)	8600	8600	µg/kg	SS-92: 0-2 ft BGS (10/31/2018)	1/6	54 - 1100	8600	39000	C	N	BSV
85-68-7	Butyl benzylphthalate (BBP)	ND	ND	µg/kg	--	0/6	23 - 1200	N/A	290000	C	N	ND
105-60-2	Caprolactam	ND	ND	µg/kg	--	0/6	79 - 4200	N/A	3100000	N	N	ND
86-74-8	**Carbazole**	**23 J**	**8400**	**µg/kg**	**SS-86: 0-2 ft BGS (11/2/2017)**	**4/6**	**21 - 1100**	**8400**	**--**		**Y**	**AD**
218-01-9	Chrysene	40	29000	µg/kg	SS-86: 0-2 ft BGS (11/2/2017)	5/6	83	29000	110000	C	N	BSV
53-70-3	**Dibenz(a,h)anthracene**	**8.3 J**	**2700**	**µg/kg**	**SS-86: 0-2 ft BGS (11/2/2017)**	**5/6**	**390**	**2700**	**110**	**C**	**Y**	**ASV**
132-64-9	Dibenzofuran	41 J	2700 J	µg/kg	SS-86: 0-2 ft BGS (11/2/2017)	3/6	14 - 720	2700 J	7300	N	N	BSV
84-66-2	Diethyl phthalate	ND	ND	µg/kg	--	0/6	33 - 1700	N/A	5100000	N	N	ND
131-11-3	Dimethyl phthalate	ND	ND	µg/kg	--	0/6	15 - 1000	N/A	5100000 (5)	N	N	ND
84-74-2	Di-n-butylphthalate (DBP)	ND	ND	µg/kg	--	0/6	23 - 1200	N/A	630000	N	N	ND
117-84-0	Di-n-octyl phthalate (DnOP)	ND	ND	µg/kg	--	0/6	29 - 1600	N/A	63000	N	N	ND
206-44-0	Fluoranthene	62	65000	µg/kg	SS-86: 0-2 ft BGS (11/2/2017)	6/6	--	65000	240000	N	N	BSV
86-73-7	Fluorene	62	5300	µg/kg	SS-86: 0-2 ft BGS (11/2/2017)	4/6	2.9 - 3	5300	240000	N	N	BSV
118-74-1	Hexachlorobenzene	ND	ND	µg/kg	--	0/6	3 - 160	N/A	210	C	N	ND
87-68-3	Hexachlorobutadiene	ND	ND	µg/kg	--	0/6	13 - 670	N/A	1200	C	N	ND
77-47-4	Hexachlorocyclopentadiene	ND	ND	µg/kg	--	0/6	65 - 3500	N/A	180	N	N	ND
67-72-1	Hexachloroethane	ND	ND	µg/kg	--	0/6	9.4 - 540	N/A	1800	C	N	ND
193-39-5	**Indeno(1,2,3-cd)pyrene**	**14 J**	**7600**	**µg/kg**	**SS-86: 0-2 ft BGS (11/2/2017)**	**5/6**	**410**	**7600**	**1100**	**C**	**Y**	**ASV**
78-59-1	Isophorone	44 J	44 J	µg/kg	SS-93: 0-2 ft BGS (10/31/2018)	1/6	13 - 790	44 J	570000	C	N	BSV
91-20-3	Naphthalene	13 J	760 J	µg/kg	SS-92: 0-2 ft BGS (10/31/2018)	6/6	--	760 J	3800	C	N	BSV
98-95-3	Nitrobenzene	ND	ND	µg/kg	--	0/6	14 - 720	N/A	5100	C	N	ND
621-64-7	N-Nitrosodi-n-propylamine	ND	ND	µg/kg	--	0/6	12 - 610	N/A	78	C	N	ND
86-30-6	N-Nitrosodiphenylamine	ND	ND	µg/kg	--	0/6	13 - 1300	N/A	110000	C	N	ND
87-86-5	Pentachlorophenol	ND	ND	µg/kg	--	0/6	61 - 3200	N/A	1000	C	N	ND
85-01-8	Phenanthrene	44	52000	µg/kg	SS-86: 0-2 ft BGS (11/2/2017)	6/6	--	52000	180000 (5)	N	N	BSV
108-95-2	Phenol	ND	ND	µg/kg	--	0/6	8.4 - 450	N/A	1900000	N	N	ND
129-00-0	Pyrene	63	50000	µg/kg	SS-86: 0-2 ft BGS (11/2/2017)	6/6	--	50000	180000	N	N	BSV
	Metals											
7429-90-5	Aluminum	4600	7000	mg/kg	SS-92: 0-2 ft BGS (10/31/2018)	6/6	--	7000	7700	N	N	BSV
7440-36-0	Antimony	0.21 J	0.7	mg/kg	SS-93: 0-2 ft BGS (10/31/2018)	6/6	--	0.7	3.1	N	N	BSV
7440-38-2	**Arsenic**	**4.1**	**15**	**mg/kg**	**SS-86: 0-2 ft BGS (11/2/2017)**	**6/6**	**--**	**15**	**0.68**	**C**	**Y**	**ASV**
7440-39-3	Barium	55	280	mg/kg	SS-93: 0-2 ft BGS (10/31/2018)	6/6	--	280	1500	N	N	BSV
7440-41-7	Beryllium	0.49	1.2	mg/kg	SS-86: 0-2 ft BGS (11/2/2017)	6/6	--	1.2	16	N	N	BSV
7440-43-9	Cadmium	0.24	1.6	mg/kg	SS-92: 0-2 ft BGS (10/31/2018)	6/6	--	1.6	7.1	N	N	BSV
7440-70-2	Calcium	58000	110000	mg/kg	SS-90: 0.17-2.17 ft BGS (10/31/2018)	6/6	--	110000	--		N	NAT
16065-83-1	Chromium III (trivalent)	11	57	mg/kg	SS-90: 0.17-2.17 ft BGS (10/31/2018)	6/6	--	57	12000	N	N	BSV

Table 11

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU09 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU09 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Metals (cont.'d)											
18540-29-9	**Chromium VI (hexavalent)**	**0.42 J**	**1.9**	**mg/kg**	**SS-86: 0-2 ft BGS (11/2/2017)**	**2/6**	**0.26 - 0.28**	**1.9**	**0.3**	**C**	**Y**	**ASV**
7440-48-4	**Cobalt**	**3.5**	**6.8**	**mg/kg**	**SS-86: 0-2 ft BGS (11/2/2017)**	**6/6**	**--**	**6.8**	**2.3**	**N**	**Y**	**ASV**
7440-50-8	**Copper**	**20**	**3700**	**mg/kg**	**SS-90: 0.17-2.17 ft BGS (10/31/2018)**	**6/6**	**--**	**3700**	**310**	**N**	**Y**	**ASV**
57-12-5	Cyanide (total)	0.23 J	0.23 J	mg/kg	SS-93: 0-2 ft BGS (10/31/2018)	1/6	0.19 - 0.51	0.23 J	2.3	N	N	BSV
7439-89-6	**Iron**	**11000**	**24000**	**mg/kg**	**SS-91: 0.5-2.5 ft BGS (10/31/2018)**	**6/6**	**--**	**24000**	**5500**	**N**	**Y**	**ASV**
7439-92-1	Lead	28	310	mg/kg	SS-92: 0-2 ft BGS (10/31/2018)	6/6	--	310	400	C	N	BSV
7439-95-4	Magnesium	24000	41000	mg/kg	SS-90: 0.17-2.17 ft BGS (10/31/2018)	6/6	--	41000	--		N	NAT
7439-96-5	**Manganese**	**230**	**560**	**mg/kg**	**SS-91: 0.5-2.5 ft BGS (10/31/2018)**	**6/6**	**--**	**560**	**180**	**N**	**Y**	**ASV**
7439-97-6	Mercury	0.029 J	0.17	mg/kg	SS-92: 0-2 ft BGS (10/31/2018)	6/6	--	0.17	1.1	N	N	BSV
7440-02-0	Nickel	10	47	mg/kg	SS-90: 0.17-2.17 ft BGS (10/31/2018)	6/6	--	47	150	N	N	BSV
7440-09-7	Potassium	560	960	mg/kg	SS-86: 0-2 ft BGS (11/2/2017)	6/6	--	960	--		N	NAT
7782-49-2	Selenium	0.33 J	1.4	mg/kg	SS-86: 0-2 ft BGS (11/2/2017)	6/6	--	1.4	39	N	N	BSV
7440-22-4	Silver	0.040 J	0.81	mg/kg	SS-90: 0.17-2.17 ft BGS (10/31/2018)	6/6	--	0.81	39	N	N	BSV
7440-23-5	Sodium	110 J	170 J	mg/kg	SS-92: 0-2 ft BGS (10/31/2018)	5/6	130	170 J	--		N	NAT
7440-28-0	**Thallium**	**0.10 J**	**0.53**	**mg/kg**	**SS-86: 0-2 ft BGS (11/2/2017)**	**6/6**	**--**	**0.53**	**0.078**	**N**	**Y**	**ASV**
7440-62-2	**Vanadium**	**16**	**60**	**mg/kg**	**SS-90: 0.17-2.17 ft BGS (10/31/2018)**	**6/6**	**--**	**60**	**39**	**N**	**Y**	**ASV**
7440-66-6	Zinc	59	1000	mg/kg	SS-90: 0.17-2.17 ft BGS (10/31/2018)	6/6	--	1000	2300	N	N	BSV
	Polychlorinated Biphenyls											
12674-11-2	Aroclor-1016 (PCB-1016)	ND	ND	µg/kg	--	0/6	23 - 240	N/A	410	N	N	ND
11104-28-2	Aroclor-1221 (PCB-1221)	ND	ND	µg/kg	--	0/6	25 - 270	N/A	200	C	N	ND
11141-16-5	Aroclor-1232 (PCB-1232)	ND	ND	µg/kg	--	0/6	19 - 260	N/A	170	C	N	ND
53469-21-9	Aroclor-1242 (PCB-1242)	ND	ND	µg/kg	--	0/6	20 - 210	N/A	230	C	N	ND
12672-29-6	Aroclor-1248 (PCB-1248)	ND	ND	µg/kg	--	0/6	20 - 270	N/A	230	C	N	ND
11097-69-1	**Aroclor-1254 (PCB-1254)**	**41 J**	**170**	**µg/kg**	**SS-91: 0.5-2.5 ft BGS (10/31/2018)**	**2/6**	**24 - 260**	**170**	**120**	**C**	**Y**	**ASV**
11096-82-5	Aroclor-1260 (PCB-1260)	ND	ND	µg/kg	--	0/6	21 - 240	N/A	240	C	N	ND
	Pesticides											
72-54-8	4,4'-DDD	ND	ND	µg/kg	--	0/6	1.5 - 33	N/A	190	C	N	ND
72-55-9	4,4'-DDE	2.7 J	2.7 J	µg/kg	SS-91: 0.5-2.5 ft BGS (10/31/2018)	1/6	1.6 - 34	2.7 J	2000	C	N	BSV
50-29-3	4,4'-DDT	1.7 J	4.7 J	µg/kg	SS-91: 0.5-2.5 ft BGS (10/31/2018)	2/6	1.2 - 25	4.7 J	1900	C	N	BSV
309-00-2	Aldrin	ND	ND	µg/kg	--	0/6	0.81 - 17	N/A	39	C	N	ND
319-84-6	alpha-BHC	ND	ND	µg/kg	--	0/6	0.95 - 20	N/A	86	C	N	ND
5103-71-9	alpha-Chlordane	ND	ND	µg/kg	--	0/6	1.6 - 33	N/A	1700	C	N	ND
319-85-7	beta-BHC	ND	ND	µg/kg	--	0/6	1.8 - 39	N/A	300	C	N	ND
319-86-8	delta-BHC	ND	ND	µg/kg	--	0/6	1.8 - 38	N/A	300	C	N	ND
60-57-1	Dieldrin	ND	ND	µg/kg	--	0/6	1.2 - 24	N/A	34	C	N	ND

Table 11

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU09 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU09 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Pesticides (cont.'d)											
959-98-8	Endosulfan I	ND	ND	µg/kg	--	0/6	1.3 - 27	N/A	47000	N	N	ND
33213-65-9	Endosulfan II	ND	ND	µg/kg	--	0/6	1.5 - 33	N/A	47000	N	N	ND
1031-07-8	Endosulfan sulfate	ND	ND	µg/kg	--	0/6	1.3 - 28	N/A	47000	N	N	ND
72-20-8	Endrin	ND	ND	µg/kg	--	0/6	2 - 42	N/A	1900	N	N	ND
7421-93-4	Endrin aldehyde	1.6 J	4.1 J	µg/kg	SS-87: 0.5-2.5 ft BGS (10/31/2018)	1/6	1.4 - 29	4.1 J	1900	N	N	BSV
53494-70-5	Endrin ketone	ND	ND	µg/kg	--	0/6	0.93 - 20	N/A	1900	N	N	ND
58-89-9	gamma-BHC (lindane)	ND	ND	µg/kg	--	0/6	1.9 - 40	N/A	570	C	N	ND
5103-74-2	gamma-Chlordane	1.8 J	1.8 J	µg/kg	SS-91: 0.5-2.5 ft BGS (10/31/2018)	1/6	1.3 - 27	1.8 J	1700	C	N	BSV
76-44-8	Heptachlor	ND	ND	µg/kg	--	0/6	1.7 - 35	N/A	130	C	N	ND
1024-57-3	Heptachlor epoxide	ND	ND	µg/kg	--	0/6	1.5 - 32	N/A	70	C	N	ND
72-43-5	Methoxychlor	ND	ND	µg/kg	--	0/6	6.9 - 150	N/A	32000	N	N	ND
8001-35-2	Toxaphene	ND	ND	µg/kg	--	0/6	26 - 560	N/A	490	C	N	ND
	Herbicides											
93-76-5	2,4,5-T	ND	ND	µg/kg	--	0/1	15	N/A	63000	N	N	ND
93-72-1	2,4,5-TP (Silvex)	ND	ND	µg/kg	--	0/1	16	N/A	51000	N	N	ND
94-75-7	2,4-Dichlorophenoxyacetic acid (2,4-D)	ND	ND	µg/kg	--	0/1	55	N/A	70000	N	N	ND
	Asbestos											
1332-21-4	Asbestos	ND	ND	%	--	0/2	0.25	N/A	--		N	ND

Notes:

(1) Minimum/maximum detected concentration.
(2) Based on data collected from sampling locations: SS-86, SS-87, SS-88, SS-89, SS-90, SS-91, SS-92, SS-93, SS-161-AS, SS-162-AS.
(3) Regional Screening Level (RSL) Summary Table (TR = 1E-06, HI = 0.1) , Residential Soil, November 2018.
(4) Rationale Codes

Selection Reason: Maximum detected above Screening Value (ASV)
Analyte Detected and no Screening Value available (AD)
Deletion Reason: Maximum detected below Screening Value (BSV)
Naturally Occurring (NAT)

(5) No screening value available, surrogate screening value implemented as follows:

Chemical		Surrogate
1,3-dichlorobenzene	-	1,2-dichlorobenzene
methyl cyclohexane	-	cyclohexane
3&4-methylphenol	-	3-methylphenol
acenaphthylene	-	acenaphthene
benzo(g,h,i)perylene	-	pyrene
phenanthrene	-	pyrene
dimethylphthalate	-	diethylphthalate

Defintions:

-- = Not Available
N = Noncarcinogen
C = Carcinogen
Y = Yes
N = No
J - Estimated concentration.

Table 12

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU09 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU09 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Volatile Organic Compounds											
71-55-6	1,1,1-Trichloroethane	ND	ND	µg/kg	--	0/11	0.21 - 4.7	N/A	810000	N	N	ND
79-34-5	1,1,2,2-Tetrachloroethane	ND	ND	µg/kg	--	0/10	0.24 - 4.7	N/A	600	C	N	ND
79-00-5	1,1,2-Trichloroethane	ND	ND	µg/kg	--	0/11	0.35 - 4.7	N/A	150	N	N	ND
75-34-3	**1,1-Dichloroethane**	**4.3 J**	**4.3 J**	**µg/kg**	**SS-92: 0-2 ft BGS (10/31/2018)**	**1/11**	**0.3 - 4.7**	**4.3 J**	**3.6**	**C**	**Y**	**ASV**
75-35-4	1,1-Dichloroethene	ND	ND	µg/kg	--	0/11	0.49 - 4.7	N/A	23000	N	N	ND
120-82-1	1,2,4-Trichlorobenzene	ND	ND	µg/kg	--	0/10	0.22 - 4.7	N/A	5800	N	N	ND
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	ND	µg/kg	--	0/10	0.62 - 9.4	N/A	5.3	C	N	ND
106-93-4	1,2-Dibromoethane (Ethylene dibromide)	ND	ND	µg/kg	--	0/11	0.32 - 4.7	N/A	36	C	N	ND
95-50-1	1,2-Dichlorobenzene	ND	ND	µg/kg	--	0/10	0.2 - 4.7	N/A	180000	N	N	ND
107-06-2	1,2-Dichloroethane	ND	ND	µg/kg	--	0/11	0.26 - 4.7	N/A	460	C	N	ND
78-87-5	1,2-Dichloropropane	ND	ND	µg/kg	--	0/11	0.28 - 4.7	N/A	1600	N	N	ND
541-73-1	1,3-Dichlorobenzene	ND	ND	µg/kg	--	0/10	0.26 - 4.7	N/A	180000 (5)	N	N	ND
106-46-7	1,4-Dichlorobenzene	ND	ND	µg/kg	--	0/10	0.32 - 4.7	N/A	2600	C	N	ND
78-93-3	2-Butanone (Methyl ethyl ketone) (MEK)	1.4 J	41	µg/kg	SS-92: 0-2 ft BGS (10/31/2018)	4/11	1.8 - 19	41	2700000	N	N	BSV
591-78-6	2-Hexanone	ND	ND	µg/kg	--	0/11	0.52 - 19	N/A	20000	N	N	ND
108-10-1	4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ND	ND	µg/kg	--	0/11	0.81 - 19	N/A	3300000	N	N	ND
67-64-1	Acetone	22 J	180	µg/kg	SS-92: 0-2 ft BGS (10/31/2018)	2/11	4.3 - 22	180	6100000	N	N	BSV
71-43-2	Benzene	ND	ND	µg/kg	--	0/11	0.29 - 4.7	N/A	1200	C	N	ND
75-27-4	Bromodichloromethane	ND	ND	µg/kg	--	0/11	0.3 - 4.7	N/A	290	C	N	ND
75-25-2	Bromoform	ND	ND	µg/kg	--	0/11	0.36 - 4.7	N/A	19000	C	N	ND
74-83-9	Bromomethane (Methyl bromide)	ND	ND	µg/kg	--	0/11	0.53 - 4.7	N/A	680	N	N	ND
75-15-0	Carbon disulfide	ND	ND	µg/kg	--	0/11	0.19 - 4.7	N/A	77000	N	N	ND
56-23-5	Carbon tetrachloride	ND	ND	µg/kg	--	0/11	0.23 - 4.7	N/A	650	C	N	ND
108-90-7	Chlorobenzene	ND	ND	µg/kg	--	0/11	0.3 - 4.7	N/A	28000	N	N	ND
75-00-3	Chloroethane	ND	ND	µg/kg	--	0/11	0.34 - 4.7	N/A	1400000	N	N	ND
67-66-3	Chloroform (Trichloromethane)	ND	ND	µg/kg	--	0/11	0.21 - 4.7	N/A	320	C	N	ND
74-87-3	Chloromethane (Methyl chloride)	ND	ND	µg/kg	--	0/11	0.34 - 4.7	N/A	11000	N	N	ND
156-59-2	cis-1,2-Dichloroethene	ND	ND	µg/kg	--	0/11	0.25 - 4.7	N/A	16000	N	N	ND
10061-01-5	cis-1,3-Dichloropropene	ND	ND	µg/kg	--	0/11	0.24 - 4.7	N/A	1800	C	N	ND
110-82-7	Cyclohexane	ND	ND	µg/kg	--	0/11	0.19 - 9.4	N/A	650000	N	N	ND
124-48-1	Dibromochloromethane	ND	ND	µg/kg	--	0/11	0.27 - 4.7	N/A	8300	C	N	ND
75-71-8	Dichlorodifluoromethane (CFC-12)	ND	ND	µg/kg	--	0/11	0.32 - 4.7	N/A	8700	N	N	ND
100-41-4	Ethylbenzene	2.4 J	2.4 J	µg/kg	SS-92: 0-2 ft BGS (10/31/2018)	1/11	0.24 - 4.7	2.4 J	5800	C	N	BSV
98-82-8	Isopropyl benzene	1.1 J	1.1 J	µg/kg	SS-92: 0-2 ft BGS (10/31/2018)	1/11	0.18 - 4.7	1.1 J	190000	N	N	BSV
79-20-9	Methyl acetate	ND	ND	µg/kg	--	0/11	1.1 - 9.4	N/A	7800000	N	N	ND
108-87-2	Methyl cyclohexane	ND	ND	µg/kg	--	0/11	0.21 - 9.4	N/A	650000 (5)	N	N	ND
1634-04-4	Methyl tert butyl ether (MTBE)	ND	ND	µg/kg	--	0/11	0.24 - 19	N/A	47000	C	N	ND
75-09-2	Methylene chloride	ND	ND	µg/kg	--	0/11	0.34 - 14	N/A	35000	N	N	ND
100-42-5	Styrene	ND	ND	µg/kg	--	0/11	0.24 - 4.7	N/A	600000	N	N	ND
127-18-4	Tetrachloroethene	ND	ND	µg/kg	--	0/11	0.33 - 4.7	N/A	8100	N	N	ND
108-88-3	Toluene	2.6 J	2.6 J	µg/kg	SS-92: 0-2 ft BGS (10/31/2018)	1/11	0.31 - 4.7	2.6 J	490000	N	N	BSV
156-60-5	trans-1,2-Dichloroethene	ND	ND	µg/kg	--	0/11	0.34 - 4.7	N/A	160000	N	N	ND

Table 12

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU09 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU09 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Volatile Organic Compounds (cont.'d)											
10061-02-6	trans-1,3-Dichloropropene	ND	ND	µg/kg	--	0/11	0.19 - 4.7	N/A	1800	C	N	ND
79-01-6	Trichloroethene	ND	ND	µg/kg	--	0/11	0.37 - 4.7	N/A	410	N	N	ND
75-69-4	Trichlorofluoromethane (CFC-11)	ND	ND	µg/kg	--	0/11	0.22 - 4.7	N/A	2300000	N	N	ND
76-13-1	Trifluorotrichloroethane (CFC-113)	ND	ND	µg/kg	--	0/11	0.44 - 4.7	N/A	670000	N	N	ND
75-01-4	Vinyl chloride	ND	ND	µg/kg	--	0/11	0.25 - 4.7	N/A	59	C	N	ND
1330-20-7	Xylenes (total)	12	12	µg/kg	SS-92: 0-2 ft BGS (10/31/2018)	1/11	0.36 - 9.4	12	58000	N	N	BSV
	Semi-Volatiles Organic Compounds											
108-60-1	2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ND	ND	µg/kg	--	0/11	10 - 1100	N/A	310000	N	N	ND
95-95-4	2,4,5-Trichlorophenol	ND	ND	µg/kg	--	0/11	29 - 3800	N/A	630000	N	N	ND
88-06-2	2,4,6-Trichlorophenol	ND	ND	µg/kg	--	0/11	10 - 3600	N/A	6300	N	N	ND
120-83-2	2,4-Dichlorophenol	ND	ND	µg/kg	--	0/11	23 - 2400	N/A	19000	N	N	ND
105-67-9	2,4-Dimethylphenol	ND	ND	µg/kg	--	0/11	23 - 2200	N/A	130000	N	N	ND
51-28-5	2,4-Dinitrophenol	ND	ND	µg/kg	--	0/11	25 - 7900	N/A	13000	N	N	ND
121-14-2	2,4-Dinitrotoluene	ND	ND	µg/kg	--	0/11	20 - 3500	N/A	1700	C	N	ND
606-20-2	2,6-Dinitrotoluene	ND	ND	µg/kg	--	0/11	25 - 3100	N/A	360	C	N	ND
91-58-7	2-Chloronaphthalene	ND	ND	µg/kg	--	0/11	0.53 - 780	N/A	480000	N	N	ND
95-57-8	2-Chlorophenol	ND	ND	µg/kg	--	0/11	9.6 - 560	N/A	39000	N	N	ND
91-57-6	2-Methylnaphthalene	9.7 J	2900	µg/kg	SS-92: 0-2 ft BGS (10/31/2018)	9/11	7 - 74	2900	240000	N	N	BSV
95-48-7	2-Methylphenol	13 J	13 J	µg/kg	TP-17: 8-10 ft BGS (11/2/2017)	1/11	13 - 2200	13 J	320000	N	N	BSV
88-74-4	2-Nitroaniline	ND	ND	µg/kg	--	0/11	11 - 2200	N/A	63000	n	N	ND
88-75-5	2-Nitrophenol	ND	ND	µg/kg	--	0/11	9.7 - 720	N/A	--		N	ND
3/4-Cresol	3&4-Methylphenol	ND	ND	µg/kg	--	0/9	23 - 1600	N/A	320000 (5)	N	N	ND
91-94-1	3,3'-Dichlorobenzidine	ND	ND	µg/kg	--	0/11	21 - 2400	N/A	1200	c	N	ND
99-09-2	3-Nitroaniline	ND	ND	µg/kg	--	0/11	19 - 2700	N/A	--		N	ND
106-44-5	4-Methylphenol	ND	ND	µg/kg	--	0/2	210 - 2200	N/A	630000	N	N	ND
534-52-1	4,6-Dinitro-2-methylphenol	ND	ND	µg/kg	--	0/11	11 - 4500	N/A	510	N	N	ND
101-55-3	4-Bromophenyl phenyl ether	ND	ND	µg/kg	--	0/11	15 - 790	N/A	--		N	ND
59-50-7	4-Chloro-3-methylphenol	ND	ND	µg/kg	--	0/11	25 - 2500	N/A	630000	N	N	ND
106-47-8	4-Chloroaniline	ND	ND	µg/kg	--	0/11	20 - 1700	N/A	2700	C	N	ND
7005-72-3	4-Chlorophenyl phenyl ether	ND	ND	µg/kg	--	0/11	15 - 790	N/A	--		N	ND
100-01-6	4-Nitroaniline	ND	ND	µg/kg	--	0/11	31 - 3300	N/A	25000	N	N	ND
100-02-7	4-Nitrophenol	ND	ND	µg/kg	--	0/11	20 - 5200	N/A	--		N	ND
83-32-9	Acenaphthene	7.1	5300	µg/kg	SS-86: 0-2 ft BGS (11/2/2017)	6/11	0.89 - 160	5300	360000	N	N	BSV
208-96-8	Acenaphthylene	4.4 J	60	µg/kg	SS-91: 0.5-2.5 ft BGS (10/31/2018)	5/11	0.41 - 220	60	360000 (5)	N	N	BSV
98-86-2	Acetophenone	96 J	96 J	µg/kg	TP-17: 8-10 ft BGS (11/2/2017)	1/11	11 - 1100	96 J	780000	N	N	BSV
120-12-7	Anthracene	5.3 J	12000	µg/kg	SS-86: 0-2 ft BGS (11/2/2017)	10/11	130	12000	1800000	N	N	BSV
1912-24-9	Atrazine	ND	ND	µg/kg	--	0/11	11 - 2200	N/A	2400	C	N	ND
100-52-7	Benzaldehyde	95 J	95 J	µg/kg	TP-17: 8-10 ft BGS (11/2/2017)	1/11	14 - 1300	95 J	170000	N	N	BSV
56-55-3	**Benzo(a)anthracene**	**34**	**27000**	**µg/kg**	**SS-86: 0-2 ft BGS (11/2/2017)**	**10/11**	**190**	**27000**	**1100**	**C**	**Y**	**ASV**
50-32-8	**Benzo(a)pyrene**	**35**	**17000**	**µg/kg**	**SS-86: 0-2 ft BGS (11/2/2017)**	**10/11**	**520**	**17000**	**110**	**C**	**Y**	**ASV**
205-99-2	**Benzo(b)fluoranthene**	**56**	**25000**	**µg/kg**	**SS-86: 0-2 ft BGS (11/2/2017)**	**11/11**	**--**	**25000**	**1100**	**C**	**Y**	**ASV**

Table 12

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU09 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU09 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Semi-Volatiles Organic Compounds (cont.'d)											
191-24-2	Benzo(g,h,i)perylene	20	8700	µg/kg	SS-86: 0-2 ft BGS (11/2/2017)	11/11	--	8700	180000 (5)	N	N	BSV
207-08-9	Benzo(k)fluoranthene	17	9500	µg/kg	SS-86: 0-2 ft BGS (11/2/2017)	10/11	390	9500	11000	C	N	BSV
92-52-4	Biphenyl (1,1-Biphenyl)	6.0 J	64	µg/kg	TP-17: 8-10 ft BGS (11/2/2017)	2/11	4.1 - 950	64	4700	N	N	BSV
111-91-1	bis(2-Chloroethoxy)methane	ND	ND	µg/kg	--	0/11	13 - 1300	N/A	19000	N	N	ND
111-44-4	bis(2-Chloroethyl)ether	ND	ND	µg/kg	--	0/11	2.3 - 1100	N/A	230	C	N	ND
117-81-7	bis(2-Ethylhexyl)phthalate (DEHP)	57 J	8600	µg/kg	SS-92: 0-2 ft BGS (10/31/2018)	2/11	22 - 1100	8600	39000	C	N	BSV
85-68-7	Butyl benzylphthalate (BBP)	ND	ND	µg/kg	--	0/11	12 - 1200	N/A	290000	C	N	ND
105-60-2	Caprolactam	ND	ND	µg/kg	--	0/11	43 - 4200	N/A	3100000	N	N	ND
86-74-8	**Carbazole**	**23 J**	**8400**	**µg/kg**	**SS-86: 0-2 ft BGS (11/2/2017)**	**6/11**	**21 - 1100**	**8400**	**--**		**Y**	**AD**
218-01-9	Chrysene	40	29000	µg/kg	SS-86: 0-2 ft BGS (11/2/2017)	10/11	83	29000	110000	C	N	BSV
53-70-3	**Dibenz(a,h)anthracene**	**8.3 J**	**2700**	**µg/kg**	**SS-86: 0-2 ft BGS (11/2/2017)**	**8/11**	**7 - 390**	**2700**	**110**	**C**	**Y**	**ASV**
132-64-9	Dibenzofuran	26 J	2700 J	µg/kg	SS-86: 0-2 ft BGS (11/2/2017)	5/11	0.78 - 720	2700 J	7300	N	N	BSV
84-66-2	Diethyl phthalate	ND	ND	µg/kg	--	0/11	19 - 1700	N/A	5100000	N	N	ND
131-11-3	Dimethyl phthalate	ND	ND	µg/kg	--	0/11	15 - 1000	N/A	5100000 (5)	N	N	ND
84-74-2	Di-n-butylphthalate (DBP)	ND	ND	µg/kg	--	0/11	18 - 1200	N/A	630000	N	N	ND
117-84-0	Di-n-octyl phthalate (DnOP)	ND	ND	µg/kg	--	0/11	9.3 - 1600	N/A	63000	N	N	ND
206-44-0	Fluoranthene	57	65000	µg/kg	SS-86: 0-2 ft BGS (11/2/2017)	11/11	--	65000	240000	N	N	BSV
86-73-7	Fluorene	45	5300	µg/kg	SS-86: 0-2 ft BGS (11/2/2017)	6/11	0.62 - 74	5300	240000	N	N	BSV
118-74-1	Hexachlorobenzene	ND	ND	µg/kg	--	0/11	2.5 - 160	N/A	210	C	N	ND
87-68-3	Hexachlorobutadiene	ND	ND	µg/kg	--	0/11	6.6 - 670	N/A	1200	C	N	ND
77-47-4	Hexachlorocyclopentadiene	ND	ND	µg/kg	--	0/11	9.5 - 3700	N/A	180	N	N	ND
67-72-1	Hexachloroethane	ND	ND	µg/kg	--	0/11	9.4 - 550	N/A	1800	C	N	ND
193-39-5	**Indeno(1,2,3-cd)pyrene**	**14 J**	**7600**	**µg/kg**	**SS-86: 0-2 ft BGS (11/2/2017)**	**10/11**	**410**	**7600**	**1100**	**C**	**Y**	**ASV**
78-59-1	Isophorone	44 J	44 J	µg/kg	SS-93: 0-2 ft BGS (10/31/2018)	1/11	13 - 790	44 J	570000	C	N	BSV
91-20-3	Naphthalene	11	760 J	µg/kg	SS-92: 0-2 ft BGS (10/31/2018)	9/11	7 - 74	760 J	3800	C	N	BSV
98-95-3	Nitrobenzene	ND	ND	µg/kg	--	0/11	2.6 - 1100	N/A	5100	C	N	ND
621-64-7	N-Nitrosodi-n-propylamine	ND	ND	µg/kg	--	0/11	7.4 - 610	N/A	78	C	N	ND
86-30-6	N-Nitrosodiphenylamine	ND	ND	µg/kg	--	0/11	13 - 1300	N/A	110000	C	N	ND
87-86-5	Pentachlorophenol	ND	ND	µg/kg	--	0/11	11 - 3200	N/A	1000	C	N	ND
85-01-8	Phenanthrene	41	52000	µg/kg	SS-86: 0-2 ft BGS (11/2/2017)	11/11	--	52000	180000 (5)	N	N	BSV
108-95-2	Phenol	ND	ND	µg/kg	--	0/11	8.4 - 550	N/A	1900000	N	N	ND
129-00-0	Pyrene	51	50000	µg/kg	SS-86: 0-2 ft BGS (11/2/2017)	11/11	--	50000	180000	N	N	BSV
	Metals											
7429-90-5	**Aluminum**	**3100 J**	**9300**	**mg/kg**	**BH120-18: 8-10 ft BGS (1/19/2018)**	**11/11**	**--**	**9300**	**7700**	**N**	**Y**	**ASV**
7440-36-0	Antimony	0.21 J	3	mg/kg	BH121-18: 8-10 ft BGS (1/19/2018)	10/11	0.18	3	3.1	N	N	BSV
7440-38-2	**Arsenic**	**4.1**	**16**	**mg/kg**	**BH121-18: 8-10 ft BGS (1/19/2018)**	**11/11**	**--**	**16**	**0.68**	**C**	**Y**	**ASV**
7440-39-3	Barium	35.8	280	mg/kg	SS-93: 0-2 ft BGS (10/31/2018)	11/11	--	280	1500	N	N	BSV
7440-41-7	Beryllium	0.37	2.3	mg/kg	BH121-18: 8-10 ft BGS (1/19/2018)	10/11	0.52	2.3	16	N	N	BSV
7440-43-9	Cadmium	0.21 J	2.6	mg/kg	BH121-18: 8-10 ft BGS (1/19/2018)	11/11	--	2.6	7.1	N	N	BSV
7440-70-2	Calcium	46000	140000	mg/kg	TP-17: 8-10 ft BGS (11/2/2017)	11/11	--	140000	--		N	NAT
16065-83-1	Chromium III (trivalent)	5.5	89	mg/kg	BH121-18: 8-10 ft BGS (1/19/2018)	11/11	--	89	12000	N	N	BSV

Table 12

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU09 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU09 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Metals (cont.'d)											
18540-29-9	**Chromium VI (hexavalent)**	**0.42 J**	**1.9**	**mg/kg**	**SS-86: 0-2 ft BGS (11/2/2017)**	**5/11**	**0.26 - 1.4**	**1.9**	**0.3**	**C**	**Y**	**ASV**
7440-48-4	**Cobalt**	**3.5**	**9.8**	**mg/kg**	**BH121-18: 8-10 ft BGS (1/19/2018)**	**11/11**	**--**	**9.8**	**2.3**	**N**	**Y**	**ASV**
7440-50-8	**Copper**	**12**	**4700**	**mg/kg**	**BH121-18: 8-10 ft BGS (1/19/2018)**	**11/11**	**--**	**4700**	**310**	**N**	**Y**	**ASV**
57-12-5	**Cyanide (total)**	**0.23 J**	**7.1**	**mg/kg**	**BH121-18: 8-10 ft BGS (1/19/2018)**	**3/10**	**0.088 - 0.52**	**7.1**	**2.3**	**N**	**Y**	**ASV**
7439-89-6	**Iron**	**6900**	**59000**	**mg/kg**	**BH121-18: 8-10 ft BGS (1/19/2018)**	**11/11**	**--**	**59000**	**5500**	**N**	**Y**	**ASV**
7439-92-1	**Lead**	**12.5**	**680**	**mg/kg**	**BH121-18: 8-10 ft BGS (1/19/2018)**	**11/11**	**--**	**680**	**400**	**C**	**Y**	**ASV**
7439-95-4	Magnesium	19000	41000	mg/kg	SS-90: 0.17-2.17 ft BGS (10/31/2018)	11/11	--	41000	--		N	NAT
7439-96-5	**Manganese**	**230**	**810**	**mg/kg**	**BH120-18: 8-10 ft BGS (1/19/2018)**	**11/11**	**--**	**810**	**180**	**N**	**Y**	**ASV**
7439-97-6	Mercury	0.027 J	0.26	mg/kg	TP-17: 8-10 ft BGS (11/2/2017)	10/11	0.1	0.26	1.1	N	N	BSV
7440-02-0	Nickel	8.1	47	mg/kg	SS-90: 0.17-2.17 ft BGS (10/31/2018)	11/11	--	47	150	N	N	BSV
7440-09-7	Potassium	390	1100	mg/kg	BH120-18: 8-10 ft BGS (1/19/2018)	11/11	--	1100	--		N	NAT
7782-49-2	Selenium	0.33 J	1.4	mg/kg	SS-86: 0-2 ft BGS (11/2/2017)	9/11	26.1 - 27.7	1.4	39	N	N	BSV
7440-22-4	Silver	0.040 J	0.81	mg/kg	SS-90: 0.17-2.17 ft BGS (10/31/2018)	9/11	1 - 1.1	0.81	39	N	N	BSV
7440-23-5	Sodium	78 J	240	mg/kg	BH121-18: 8-10 ft BGS (1/19/2018)	7/11	130 - 554	240	--		N	NAT
7440-28-0	**Thallium**	**0.10 J**	**0.53**	**mg/kg**	**SS-86: 0-2 ft BGS (11/2/2017)**	**10/11**	**0.1**	**0.53**	**0.078**	**N**	**Y**	**ASV**
7440-62-2	**Vanadium**	**12.3**	**60**	**mg/kg**	**SS-90: 0.17-2.17 ft BGS (10/31/2018)**	**11/11**	**--**	**60**	**39**	**N**	**Y**	**ASV**
7440-66-6	Zinc	38	2000	mg/kg	BH121-18: 8-10 ft BGS (1/19/2018)	11/11	--	2000	2300	N	N	BSV
	Polychlorinated Biphenyls											
12674-11-2	Aroclor-1016 (PCB-1016)	ND	ND	µg/kg	--	0/11	23 - 240	N/A	410	N	N	ND
11104-28-2	Aroclor-1221 (PCB-1221)	ND	ND	µg/kg	--	0/11	25 - 270	N/A	200	C	N	ND
11141-16-5	Aroclor-1232 (PCB-1232)	ND	ND	µg/kg	--	0/11	19 - 260	N/A	170	C	N	ND
53469-21-9	Aroclor-1242 (PCB-1242)	ND	ND	µg/kg	--	0/11	20 - 210	N/A	230	C	N	ND
12672-29-6	Aroclor-1248 (PCB-1248)	ND	ND	µg/kg	--	0/11	20 - 270	N/A	230	C	N	ND
11097-69-1	**Aroclor-1254 (PCB-1254)**	**41 J**	**170**	**µg/kg**	**SS-91: 0.5-2.5 ft BGS (10/31/2018)**	**3/11**	**17 - 260**	**170**	**120**	**C**	**Y**	**ASV**
11096-82-5	Aroclor-1260 (PCB-1260)	ND	ND	µg/kg	--	0/11	21 - 240	N/A	240	C	N	ND
	Pesticides											
72-54-8	4,4'-DDD	20 J	20 J	µg/kg	TP-17: 8-10 ft BGS (11/2/2017)	1/10	1.5 - 33	20 J	190	C	N	BSV
72-55-9	4,4'-DDE	2.7 J	2.7 J	µg/kg	SS-91: 0.5-2.5 ft BGS (10/31/2018)	1/10	1.4 - 34	2.7 J	2000	C	N	BSV
50-29-3	4,4'-DDT	1.7 J	4.7 J	µg/kg	SS-91: 0.5-2.5 ft BGS (10/31/2018)	2/10	1.2 - 25	4.7 J	1900	C	N	BSV
309-00-2	Aldrin	ND	ND	µg/kg	--	0/10	0.81 - 18	N/A	39	C	N	ND
319-84-6	alpha-BHC	ND	ND	µg/kg	--	0/10	0.95 - 20	N/A	86	C	N	ND
5103-71-9	alpha-Chlordane	ND	ND	µg/kg	--	0/10	1.6 - 33	N/A	1700	C	N	ND
319-85-7	beta-BHC	ND	ND	µg/kg	--	0/10	1.8 - 39	N/A	300	C	N	ND
319-86-8	delta-BHC	ND	ND	µg/kg	--	0/10	1.6 - 38	N/A	300	C	N	ND
60-57-1	Dieldrin	ND	ND	µg/kg	--	0/10	1.1 - 24	N/A	34	C	N	ND
959-98-8	Endosulfan I	ND	ND	µg/kg	--	0/10	1.3 - 27	N/A	47000	N	N	ND
33213-65-9	Endosulfan II	ND	ND	µg/kg	--	0/10	1.5 - 33	N/A	47000	N	N	ND
1031-07-8	Endosulfan sulfate	ND	ND	µg/kg	--	0/10	1.3 - 28	N/A	47000	N	N	ND
72-20-8	Endrin	ND	ND	µg/kg	--	0/10	1.7 - 42	N/A	1900	N	N	ND

Table 12

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU09 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU09 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Pesticides (cont.'d)											
7421-93-4	Endrin aldehyde	1.6 J	4.1 J	µg/kg	SS-87: 0.5-2.5 ft BGS (10/31/2018)	1/10	1.4 - 29	4.1 J	1900	N	N	BSV
53494-70-5	Endrin ketone	ND	ND	µg/kg	--	0/10	0.93 - 20	N/A	1900	N	N	ND
58-89-9	gamma-BHC (lindane)	ND	ND	µg/kg	--	0/10	1.9 - 40	N/A	570	C	N	ND
5103-74-2	gamma-Chlordane	1.8 J	1.8 J	µg/kg	SS-91: 0.5-2.5 ft BGS (10/31/2018)	1/10	1.3 - 27	1.8 J	1700	C	N	BSV
76-44-8	Heptachlor	ND	ND	µg/kg	--	0/10	0.94 - 35	N/A	130	C	N	ND
1024-57-3	Heptachlor epoxide	ND	ND	µg/kg	--	0/10	1.5 - 32	N/A	70	C	N	ND
72-43-5	Methoxychlor	1.8 NJ	1.8 NJ	µg/kg	BH121-18: 8-10 ft BGS (1/19/2018)	1/10	1.4 - 150	1.8 NJ	32000	N	N	BSV
8001-35-2	Toxaphene	ND	ND	µg/kg	--	0/10	26 - 700	N/A	490	C	N	ND
	Herbicides											
93-76-5	2,4,5-T	ND	ND	µg/kg	--	0/1	15	N/A	63000	N	N	ND
93-72-1	2,4,5-TP (Silvex)	ND	ND	µg/kg	--	0/2	16 - 21	N/A	51000	N	N	ND
94-75-7	2,4-Dichlorophenoxyacetic acid (2,4-D)	ND	ND	µg/kg	--	0/2	55 - 84	N/A	70000	N	N	ND
	Dioxins/Furans											
39001-02-0	1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	ND	ND	pg/g	--	0/1	1.2	N/A	--			Refer to Total TEQ
3268-87-9	1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	19	19	pg/g	TP-17: 8-10 ft BGS (11/2/2017)	1/1	--	19	--			Refer to Total TEQ
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	0.80 J	0.80 J	pg/g	TP-17: 8-10 ft BGS (11/2/2017)	1/1	--	0.80 J	--			Refer to Total TEQ
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	2.7 J	2.7 J	pg/g	TP-17: 8-10 ft BGS (11/2/2017)	1/1	--	2.7 J	--			Refer to Total TEQ
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	ND	ND	pg/g	--	0/1	0.18	N/A	--			Refer to Total TEQ
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	0.35 J	0.35 J	pg/g	TP-17: 8-10 ft BGS (11/2/2017)	1/1	--	0.35 J	--			Refer to Total TEQ
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	0.18 J	0.18 J	pg/g	TP-17: 8-10 ft BGS (11/2/2017)	1/1	--	0.18 J	--			Refer to Total TEQ
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	0.20 J	0.20 J	pg/g	TP-17: 8-10 ft BGS (11/2/2017)	1/1	--	0.20 J	--			Refer to Total TEQ
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	0.38 J	0.38 J	pg/g	TP-17: 8-10 ft BGS (11/2/2017)	1/1	--	0.38 J	--			Refer to Total TEQ
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	ND	ND	pg/g	--	0/1	0.09	N/A	--			Refer to Total TEQ
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	0.36 J	0.36 J	pg/g	TP-17: 8-10 ft BGS (11/2/2017)	1/1	--	0.36 J	--			Refer to Total TEQ
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	ND	ND	pg/g	--	0/1	0.082	N/A	--			Refer to Total TEQ
40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	0.26 J	0.26 J	pg/g	TP-17: 8-10 ft BGS (11/2/2017)	1/1	--	0.26 J	--			Refer to Total TEQ
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	0.20 J	0.20 J	pg/g	TP-17: 8-10 ft BGS (11/2/2017)	1/1	--	0.20 J	--			Refer to Total TEQ
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	0.21 J	0.21 J	pg/g	TP-17: 8-10 ft BGS (11/2/2017)	1/1	--	0.21 J	--			Refer to Total TEQ
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran (TCDF)	0.38 J	0.38 J	pg/g	TP-17: 8-10 ft BGS (11/2/2017)	1/1	--	0.38 J	--			Refer to Total TEQ
1746-01-6	2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	0.081 J	0.081 J	pg/g	TP-17: 8-10 ft BGS (11/2/2017)	1/1	--	0.081 J	--			Refer to Total TEQ
38998-75-3	Total heptachlorodibenzofuran (HpCDF)	1.7 J	1.7 J	pg/g	TP-17: 8-10 ft BGS (11/2/2017)	1/1	--	1.7 J	--			Refer to Total TEQ
37871-00-4	Total heptachlorodibenzo-p-dioxin (HpCDD)	5.2 J	5.2 J	pg/g	TP-17: 8-10 ft BGS (11/2/2017)	1/1	--	5.2 J	--			Refer to Total TEQ
55684-94-1	Total hexachlorodibenzofuran (HxCDF)	4.4 J	4.4 J	pg/g	TP-17: 8-10 ft BGS (11/2/2017)	1/1	--	4.4 J	--			Refer to Total TEQ
34465-46-8	Total hexachlorodibenzo-p-dioxin (HxCDD)	3.7 J	3.7 J	pg/g	TP-17: 8-10 ft BGS (11/2/2017)	1/1	--	3.7 J	--			Refer to Total TEQ
30402-15-4	Total pentachlorodibenzofuran (PeCDF)	7.7 J	7.7 J	pg/g	TP-17: 8-10 ft BGS (11/2/2017)	1/1	--	7.7 J	--			Refer to Total TEQ
36088-22-9	Total pentachlorodibenzo-p-dioxin (PeCDD)	8.9 J	8.9 J	pg/g	TP-17: 8-10 ft BGS (11/2/2017)	1/1	--	8.9 J	--			Refer to Total TEQ
55722-27-5	Total tetrachlorodibenzofuran (TCDF)	8.5 J	8.5 J	pg/g	TP-17: 8-10 ft BGS (11/2/2017)	1/1	--	8.5 J	--			Refer to Total TEQ
41903-57-5	Total tetrachlorodibenzo-p-dioxin (TCDD)	2.8 J	2.8 J	pg/g	TP-17: 8-10 ft BGS (11/2/2017)	1/1	--	2.8 J	--			Refer to Total TEQ
TOTALTEQND0	Total TEQ (DL @ 0)	0.6497	0.6497	pg/g	TP-17: 8-10 ft BGS (11/2/2017)	1/1	--	0.6497	4.8	C	N	BSV
TOTALTEQND0.5	Total TEQ (DL @ Half)	0.65636	0.65636	pg/g	TP-17: 8-10 ft BGS (11/2/2017)	1/1	--	0.65636	4.8	C	N	BSV

Table 12

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU09 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU09 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)	COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Asbestos										
1332-21-4	Asbestos	ND	ND	%	--	0/4	0.25 - 1	N/A	--	N	ND

Notes:

(1) Minimum/maximum detected concentration.
(2) Based on data collected from sampling locations: BH120-18, BH121-18, SS-86, SS-87, SS-88, SS-89, SS-90, SS-91, SS-92, SS-93, SS-161-AS, SS-162-AS, TP-17, TT-13, VAS-21B.
(3) Regional Screening Level (RSL) Summary Table (TR = 1E-06, HI = 0.1) , Residential Soil, November 2018.
(4) Rationale Codes

Selection Reason: Maximum detected above Screening Value (ASV)
Analyte Detected and no Screening Value available (AD)
Deletion Reason: Maximum detected below Screening Value (BSV)
Naturally Occurring (NAT)

(5) No screening value available, surrogate screening value implemented as follows:

Chemical		Surrogate
1,3-dichlorobenzene	-	1,2-dichlorobenzene
methyl cyclohexane	-	cyclohexane
3&4-methylphenol	-	3-methylphenol
acenaphthylene	-	acenaphthene
benzo(g,h,i)perylene	-	pyrene
phenanthrene	-	pyrene
dimethylphthalate	-	diethylphthalate

Defintions:

-- = Not Available
N = Noncarcinogen
C = Carcinogen
Y = Yes
N = No
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.

Table 13

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPC) in EU10 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU10 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Volatile Organic Compounds											
71-55-6	1,1,1-Trichloroethane	ND	ND	µg/kg	--	0/8	0.74 - 0.99	N/A	810000	N	N	ND
79-34-5	1,1,2,2-Tetrachloroethane	ND	ND	µg/kg	--	0/6	1.3 - 1.7	N/A	600	C	N	ND
79-00-5	1,1,2-Trichloroethane	ND	ND	µg/kg	--	0/7	1 - 1.3	N/A	150	N	N	ND
75-34-3	1,1-Dichloroethane	ND	ND	µg/kg	--	0/8	0.63 - 0.84	N/A	3.6	C	N	ND
75-35-4	1,1-Dichloroethene	ND	ND	µg/kg	--	0/8	0.82 - 1.1	N/A	23000	N	N	ND
120-82-1	1,2,4-Trichlorobenzene	ND	ND	µg/kg	--	0/6	0.52 - 0.68	N/A	5800	N	N	ND
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	ND	µg/kg	--	0/6	3.3 - 4.3	N/A	5.3	C	N	ND
106-93-4	1,2-Dibromoethane (Ethylene dibromide)	ND	ND	µg/kg	--	0/7	0.7 - 0.91	N/A	36	C	N	ND
95-50-1	1,2-Dichlorobenzene	ND	ND	µg/kg	--	0/6	1 - 1.3	N/A	180000	N	N	ND
107-06-2	1,2-Dichloroethane	ND	ND	µg/kg	--	0/8	0.7 - 0.93	N/A	460	C	N	ND
78-87-5	1,2-Dichloropropane	ND	ND	µg/kg	--	0/8	0.77 - 1	N/A	1600	N	N	ND
541-73-1	1,3-Dichlorobenzene	ND	ND	µg/kg	--	0/6	0.74 - 0.97	N/A	180000 (5)	N	N	ND
106-46-7	1,4-Dichlorobenzene	ND	ND	µg/kg	--	0/6	0.8 - 1	N/A	2600	C	N	ND
78-93-3	2-Butanone (Methyl ethyl ketone) (MEK)	13 J	19	µg/kg	SS-82: 0-2 ft BGS (10/31/2018)	3/8	3.5 - 4.3	19	2700000	N	N	BSV
591-78-6	2-Hexanone	ND	ND	µg/kg	--	0/7	3.7 - 4.8	N/A	20000	N	N	ND
108-10-1	4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ND	ND	µg/kg	--	0/7	3.4 - 4.4	N/A	3300000	N	N	ND
67-64-1	Acetone	23 J	100	µg/kg	SS-82: 0-2 ft BGS (10/31/2018)	5/8	21 - 25	100	6100000	N	N	BSV
71-43-2	Benzene	ND	ND	µg/kg	--	0/8	0.63 - 0.84	N/A	1200	C	N	ND
75-27-4	Bromodichloromethane	ND	ND	µg/kg	--	0/8	0.61 - 0.82	N/A	290	C	N	ND
75-25-2	Bromoform	ND	ND	µg/kg	--	0/7	2.2 - 2.8	N/A	19000	C	N	ND
74-83-9	Bromomethane (Methyl bromide)	ND	ND	µg/kg	--	0/8	0.89 - 1.2	N/A	680	N	N	ND
75-15-0	Carbon disulfide	ND	ND	µg/kg	--	0/8	1 - 1.4	N/A	77000	N	N	ND
56-23-5	Carbon tetrachloride	ND	ND	µg/kg	--	0/8	2.9 - 3.9	N/A	650	C	N	ND
108-90-7	Chlorobenzene	ND	ND	µg/kg	--	0/7	0.83 - 1.1	N/A	28000	N	N	ND
75-00-3	Chloroethane	ND	ND	µg/kg	--	0/8	1.1 - 1.5	N/A	1400000	N	N	ND
67-66-3	Chloroform (Trichloromethane)	ND	ND	µg/kg	--	0/8	0.71 - 0.95	N/A	320	C	N	ND
74-87-3	Chloromethane (Methyl chloride)	ND	ND	µg/kg	--	0/8	0.94 - 1.3	N/A	11000	N	N	ND
156-59-2	cis-1,2-Dichloroethene	0.93 J	0.93 J	µg/kg	SS-83: 0-2 ft BGS (10/31/2018)	1/8	0.59 - 0.77	0.93 J	16000	N	N	BSV
10061-01-5	cis-1,3-Dichloropropene	ND	ND	µg/kg	--	0/8	1.3 - 1.7	N/A	1800	C	N	ND
110-82-7	Cyclohexane	ND	ND	µg/kg	--	0/8	1.2 - 1.7	N/A	650000	N	N	ND
124-48-1	Dibromochloromethane	ND	ND	µg/kg	--	0/7	2.5 - 3.3	N/A	8300	C	N	ND
75-71-8	Dichlorodifluoromethane (CFC-12)	ND	ND	µg/kg	--	0/8	0.85 - 1.1	N/A	8700	N	N	ND
100-41-4	Ethylbenzene	ND	ND	µg/kg	--	0/7	0.95 - 1.2	N/A	5800	C	N	ND
98-82-8	Isopropyl benzene	ND	ND	µg/kg	--	0/7	0.75 - 0.99	N/A	190000	N	N	ND
79-20-9	Methyl acetate	ND	ND	µg/kg	--	0/8	3.1 - 4.1	N/A	7800000	N	N	ND
108-87-2	Methyl cyclohexane	ND	ND	µg/kg	--	0/8	1.1 - 1.5	N/A	650000 (5)	N	N	ND
1634-04-4	Methyl tert butyl ether (MTBE)	ND	ND	µg/kg	--	0/8	0.74 - 0.99	N/A	47000	C	N	ND
75-09-2	Methylene chloride	ND	ND	µg/kg	--	0/8	11 - 14	N/A	35000	N	N	ND
100-42-5	Styrene	ND	ND	µg/kg	--	0/7	1 - 1.4	N/A	600000	N	N	ND
127-18-4	Tetrachloroethene	ND	ND	µg/kg	--	0/7	0.66 - 0.87	N/A	8100	N	N	ND
108-88-3	Toluene	1.7 J	1.7 J	µg/kg	SS-84: 0-2 ft BGS (10/31/2018)	1/7	0.7 - 0.92	1.7 J	490000	N	N	BSV
156-60-5	trans-1,2-Dichloroethene	ND	ND	µg/kg	--	0/8	0.42 - 0.56	N/A	160000	N	N	ND

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South Dayton Dump Site
Moraine, Ohio

Medium: EU10 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Volatile Organic Compounds (cont.'d)											
10061-02-6	trans-1,3-Dichloropropene	ND	ND	µg/kg	--	0/7	0.93 - 1.2	N/A	1800	C	N	ND
79-01-6	Trichloroethene	ND	ND	µg/kg	--	0/8	0.57 - 0.76	N/A	410	N	N	ND
75-69-4	Trichlorofluoromethane (CFC-11)	ND	ND	µg/kg	--	0/8	0.97 - 1.3	N/A	2300000	N	N	ND
76-13-1	Trifluorotrichloroethane (CFC-113)	ND	ND	µg/kg	--	0/8	1.2 - 1.5	N/A	670000	N	N	ND
75-01-4	Vinyl chloride	ND	ND	µg/kg	--	0/8	0.76 - 1	N/A	59	C	N	ND
1330-20-7	Xylenes (total)	1.5 J	1.5 J	µg/kg	SS-84: 0-2 ft BGS (10/31/2018)	1/7	1.4 - 1.9	1.5 J	58000	N	N	BSV
	Semi-Volatiles Organic Compounds											
108-60-1	2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ND	ND	µg/kg	--	0/8	10 - 22	N/A	310000	N	N	ND
95-95-4	2,4,5-Trichlorophenol	ND	ND	µg/kg	--	0/8	71 - 150	N/A	630000	N	N	ND
88-06-2	2,4,6-Trichlorophenol	ND	ND	µg/kg	--	0/8	66 - 140	N/A	6300	N	N	ND
120-83-2	2,4-Dichlorophenol	ND	ND	µg/kg	--	0/8	45 - 95	N/A	19000	N	N	ND
105-67-9	2,4-Dimethylphenol	ND	ND	µg/kg	--	0/8	41 - 87	N/A	130000	N	N	ND
51-28-5	2,4-Dinitrophenol	ND	ND	µg/kg	--	0/8	150 - 310	N/A	13000	N	N	ND
121-14-2	2,4-Dinitrotoluene	ND	ND	µg/kg	--	0/8	64 - 130	N/A	1700	C	N	ND
606-20-2	2,6-Dinitrotoluene	ND	ND	µg/kg	--	0/8	58 - 120	N/A	360	C	N	ND
91-58-7	2-Chloronaphthalene	ND	ND	µg/kg	--	0/8	14 - 30	N/A	480000	N	N	ND
95-57-8	2-Chlorophenol	ND	ND	µg/kg	--	0/8	10 - 22	N/A	39000	N	N	ND
91-57-6	2-Methylnaphthalene	26	770	µg/kg	SS-81: 0.33-2.33 ft BGS (10/31/2018)	8/8	--	770	240000	N	N	BSV
95-48-7	2-Methylphenol	84 J	84 J	µg/kg	SS-79: 0-2 ft BGS (10/31/2018)	1/8	32 - 67	84 J	320000	N	N	BSV
88-74-4	2-Nitroaniline	ND	ND	µg/kg	--	0/8	41 - 87	N/A	63000	n	N	ND
88-75-5	2-Nitrophenol	ND	ND	µg/kg	--	0/8	13 - 28	N/A	--		N	ND
3/4-Cresol	3&4-Methylphenol	210 J	210 J	µg/kg	SS-79: 0-2 ft BGS (10/31/2018)	1/8	30 - 63	210 J	320000 (5)	N	N	BSV
91-94-1	3,3'-Dichlorobenzidine	ND	ND	µg/kg	--	0/8	44 - 93	N/A	1200	c	N	ND
99-09-2	3-Nitroaniline	ND	ND	µg/kg	--	0/8	51 - 110	N/A	--		N	ND
534-52-1	4,6-Dinitro-2-methylphenol	ND	ND	µg/kg	--	0/8	83 - 170	N/A	510	N	N	ND
101-55-3	4-Bromophenyl phenyl ether	ND	ND	µg/kg	--	0/8	14 - 30	N/A	--		N	ND
59-50-7	4-Chloro-3-methylphenol	ND	ND	µg/kg	--	0/8	47 - 98	N/A	630000	N	N	ND
106-47-8	4-Chloroaniline	ND	ND	µg/kg	--	0/8	31 - 65	N/A	2700	C	N	ND
7005-72-3	4-Chlorophenyl phenyl ether	ND	ND	µg/kg	--	0/8	14 - 30	N/A	--		N	ND
100-01-6	4-Nitroaniline	ND	ND	µg/kg	--	0/8	62 - 130	N/A	25000	N	N	ND
100-02-7	4-Nitrophenol	ND	ND	µg/kg	--	0/8	97 - 200	N/A	--		N	ND
83-32-9	Acenaphthene	17	54	µg/kg	SS-83: 0-2 ft BGS (10/31/2018)	4/8	3.1 - 3.5	54	360000	N	N	BSV
208-96-8	Acenaphthylene	13 J	140	µg/kg	SS-83: 0-2 ft BGS (10/31/2018)	6/8	4.5 - 4.6	140	360000 (5)	N	N	BSV
98-86-2	Acetophenone	64 J	79 J	µg/kg	SS-79: 0-2 ft BGS (10/31/2018)	2/8	11 - 24	79 J	780000	N	N	BSV
120-12-7	Anthracene	8.8 J	270	µg/kg	SS-83: 0-2 ft BGS (10/31/2018)	8/8	--	270	1800000	N	N	BSV
1912-24-9	Atrazine	ND	ND	µg/kg	--	0/8	37 - 78	N/A	2400	C	N	ND
100-52-7	Benzaldehyde	69 J	110 J	µg/kg	SS-79: 0-2 ft BGS (10/31/2018)	2/8	24 - 50	110 J	170000	N	N	BSV
56-55-3	Benzo(a)anthracene	24	970	µg/kg	SS-83: 0-2 ft BGS (10/31/2018)	8/8	--	970	1100	C	N	BSV
50-32-8	**Benzo(a)pyrene**	**28**	**840**	**µg/kg**	**SS-83: 0-2 ft BGS (10/31/2018)**	**8/8**	**--**	**840**	**110**	**C**	**Y**	**ASV**
205-99-2	**Benzo(b)fluoranthene**	**61**	**1300**	**µg/kg**	**SS-83: 0-2 ft BGS (10/31/2018)**	**8/8**	**--**	**1300**	**1100**	**C**	**Y**	**ASV**

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Moraine, Ohio

Medium: EU10 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Semi-Volatiles Organic Compounds (cont.'d)											
191-24-2	Benzo(g,h,i)perylene	33	530	µg/kg	SS-83: 0-2 ft BGS (10/31/2018)	8/8	--	530	180000 (5)	N	N	BSV
207-08-9	Benzo(k)fluoranthene	21	450	µg/kg	SS-83: 0-2 ft BGS (10/31/2018)	8/8	--	450	11000	C	N	BSV
92-52-4	Biphenyl (1,1-Biphenyl)	26 J	110	µg/kg	SS-79: 0-2 ft BGS (10/31/2018)	3/8	18 - 37	110	4700	N	N	BSV
111-91-1	bis(2-Chloroethoxy)methane	ND	ND	µg/kg	--	0/8	12 - 26	N/A	19000	N	N	ND
111-44-4	bis(2-Chloroethyl)ether	ND	ND	µg/kg	--	0/8	12 - 26	N/A	230	C	N	ND
117-81-7	bis(2-Ethylhexyl)phthalate (DEHP)	73 J	110	µg/kg	SS-32: 0.25-2.25 ft BGS (10/31/2018)	2/8	56 - 110	110	39000	C	N	BSV
85-68-7	Butyl benzylphthalate (BBP)	ND	ND	µg/kg	--	0/8	23 - 48	N/A	290000	C	N	ND
105-60-2	Caprolactam	ND	ND	µg/kg	--	0/8	78 - 160	N/A	3100000	N	N	ND
86-74-8	**Carbazole**	**33 J**	**280**	**µg/kg**	**SS-83: 0-2 ft BGS (10/31/2018)**	**4/8**	**21 - 23**	**280**	**--**		**Y**	**AD**
218-01-9	Chrysene	38	870	µg/kg	SS-83: 0-2 ft BGS (10/31/2018)	8/8	--	870	110000	C	N	BSV
53-70-3	**Dibenz(a,h)anthracene**	**11 J**	**150**	**µg/kg**	**SS-83: 0-2 ft BGS (10/31/2018)**	**8/8**	**--**	**150**	**110**	**C**	**Y**	**ASV**
132-64-9	Dibenzofuran	17 J	270	µg/kg	SS-79: 0-2 ft BGS (10/31/2018)	7/8	14	270	7300	N	N	BSV
84-66-2	Diethyl phthalate	ND	ND	µg/kg	--	0/8	32 - 67	N/A	5100000	N	N	ND
131-11-3	Dimethyl phthalate	ND	ND	µg/kg	--	0/8	14 - 30	N/A	5100000 (5)	N	N	ND
84-74-2	Di-n-butylphthalate (DBP)	ND	ND	µg/kg	--	0/8	23 - 48	N/A	630000	N	N	ND
117-84-0	Di-n-octyl phthalate (DnOP)	ND	ND	µg/kg	--	0/8	29 - 61	N/A	63000	N	N	ND
206-44-0	Fluoranthene	41	2100	µg/kg	SS-83: 0-2 ft BGS (10/31/2018)	8/8	--	2100	240000	N	N	BSV
86-73-7	Fluorene	12 J	120	µg/kg	SS-83: 0-2 ft BGS (10/31/2018)	5/8	3 - 3.4	120	240000	N	N	BSV
118-74-1	Hexachlorobenzene	ND	ND	µg/kg	--	0/8	2.9 - 6.2	N/A	210	C	N	ND
87-68-3	Hexachlorobutadiene	ND	ND	µg/kg	--	0/8	12 - 26	N/A	1200	C	N	ND
77-47-4	Hexachlorocyclopentadiene	ND	ND	µg/kg	--	0/8	64 - 130	N/A	180	N	N	ND
67-72-1	Hexachloroethane	ND	ND	µg/kg	--	0/8	9.3 - 20	N/A	1800	C	N	ND
193-39-5	Indeno(1,2,3-cd)pyrene	32	490	µg/kg	SS-83: 0-2 ft BGS (10/31/2018)	8/8	--	490	1100	C	N	BSV
78-59-1	Isophorone	ND	ND	µg/kg	--	0/8	12 - 26	N/A	570000	C	N	ND
91-20-3	Naphthalene	25	460	µg/kg	SS-81: 0.33-2.33 ft BGS (10/31/2018)	8/8	--	460	3800	C	N	BSV
98-95-3	Nitrobenzene	ND	ND	µg/kg	--	0/8	13 - 28	N/A	5100	C	N	ND
621-64-7	N-Nitrosodi-n-propylamine	ND	ND	µg/kg	--	0/8	11 - 24	N/A	78	C	N	ND
86-30-6	N-Nitrosodiphenylamine	ND	ND	µg/kg	--	0/8	12 - 26	N/A	110000	C	N	ND
87-86-5	Pentachlorophenol	ND	ND	µg/kg	--	0/8	60 - 130	N/A	1000	C	N	ND
85-01-8	Phenanthrene	46	1300	µg/kg	SS-83: 0-2 ft BGS (10/31/2018)	8/8	--	1300	180000 (5)	N	N	BSV
108-95-2	Phenol	12 J	180	µg/kg	SS-79: 0-2 ft BGS (10/31/2018)	2/8	8.3 - 17	180	1900000	N	N	BSV
129-00-0	Pyrene	30	1500	µg/kg	SS-83: 0-2 ft BGS (10/31/2018)	8/8	--	1500	180000	N	N	BSV
	Metals											
7429-90-5	**Aluminum**	**2400**	**12000**	**mg/kg**	**SS-79: 0-2 ft BGS (10/31/2018)**	**8/8**	**--**	**12000**	**7700**	**N**	**Y**	**ASV**
7440-36-0	Antimony	0.25 J	0.88	mg/kg	SS-80: 0-2 ft BGS (10/31/2018)	7/8	0.1	0.88	3.1	N	N	BSV
7440-38-2	**Arsenic**	**4**	**27**	**mg/kg**	**SS-79: 0-2 ft BGS (10/31/2018)**	**8/8**	**--**	**27**	**0.68**	**C**	**Y**	**ASV**
7440-39-3	Barium	20	690	mg/kg	SS-79: 0-2 ft BGS (10/31/2018)	8/8	--	690	1500	N	N	BSV
7440-41-7	Beryllium	0.33	2.8	mg/kg	SS-79: 0-2 ft BGS (10/31/2018)	8/8	--	2.8	16	N	N	BSV
7440-43-9	Cadmium	0.13 J	0.94	mg/kg	SS-81: 0.33-2.33 ft BGS (10/31/2018)	8/8	--	0.94	7.1	N	N	BSV
7440-70-2	Calcium	18000	140000	mg/kg	SS-32: 0.25-2.25 ft BGS (10/31/2018)	8/8	--	140000	--		N	NAT
16065-83-1	Chromium III (trivalent)	6.2	80	mg/kg	SS-82: 0-2 ft BGS (10/31/2018)	8/8	--	80	12000	N	N	BSV

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Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Metals (cont.'d)											
18540-29-9	**Chromium VI (hexavalent)**	**0.42 J**	**0.44 J**	**mg/kg**	**SS-84: 0-2 ft BGS (10/31/2018)**	**2/8**	**0.25 - 0.3**	**0.44 J**	**0.3**	**C**	**Y**	**ASV**
7440-48-4	**Cobalt**	**2.6**	**8.9**	**mg/kg**	**SS-79: 0-2 ft BGS (10/31/2018)**	**8/8**	**--**	**8.9**	**2.3**	**N**	**Y**	**ASV**
7440-50-8	Copper	8.1	90	mg/kg	SS-80: 0-2 ft BGS (10/31/2018)	8/8	--	90	310	N	N	BSV
57-12-5	Cyanide (total)	0.23 J	0.35 J	mg/kg	SS-82: 0-2 ft BGS (10/31/2018)	3/8	0.2 - 0.23	0.35 J	2.3	N	N	BSV
7439-89-6	**Iron**	**7400**	**27000**	**mg/kg**	**SS-82: 0-2 ft BGS (10/31/2018)**	**8/8**	**--**	**27000**	**5500**	**N**	**Y**	**ASV**
7439-92-1	Lead	4.5	140	mg/kg	SS-79: 0-2 ft BGS (10/31/2018)	8/8	--	140	400	C	N	BSV
7439-92-1	Lead - coarse fraction	44 J	52 J	mg/kg	SS-79: 0-2 ft BGS (10/31/2018)	2/2	--	52 J	400	C	N	BSV
7439-92-1	Lead - fine fraction	74	99	mg/kg	SS-79: 0-2 ft BGS (10/31/2018)	2/2	--	99	400	C	N	BSV
7439-92-1	Lead - total (calculated by fine/coarse fraction)	48	64	mg/kg	SS-79: 0-2 ft BGS (10/31/2018)	2/2	--	64	400	C	N	BSV
7439-95-4	Magnesium	5700	43000	mg/kg	SS-32: 0.25-2.25 ft BGS (10/31/2018)	8/8	--	43000	--		N	NAT
7439-96-5	**Manganese**	**210**	**550**	**mg/kg**	**SS-82: 0-2 ft BGS (10/31/2018)**	**8/8**	**--**	**550**	**180**	**N**	**Y**	**ASV**
7439-97-6	Mercury	0.024 J	0.27	mg/kg	SS-79: 0-2 ft BGS (10/31/2018)	7/8	0.021	0.27	1.1	N	N	BSV
7440-02-0	Nickel	7.4	31	mg/kg	SS-82: 0-2 ft BGS (10/31/2018)	8/8	--	31	150	N	N	BSV
7440-09-7	Potassium	510	1000	mg/kg	SS-78: 0-2 ft BGS (10/31/2018)	8/8	--	1000	--		N	NAT
7782-49-2	Selenium	0.32 J	1.1	mg/kg	SS-79: 0-2 ft BGS (10/31/2018)	8/8	--	1.1	39	N	N	BSV
7440-22-4	Silver	0.053 J	0.23	mg/kg	SS-81: 0.33-2.33 ft BGS (10/31/2018)	7/8	0.018	0.23	39	N	N	BSV
7440-23-5	Sodium	91 J	640	mg/kg	SS-79: 0-2 ft BGS (10/31/2018)	8/8	--	640	--		N	NAT
7440-28-0	**Thallium**	**0.10 J**	**0.38**	**mg/kg**	**SS-80: 0-2 ft BGS (10/31/2018)**	**8/8**	**--**	**0.38**	**0.078**	**N**	**Y**	**ASV**
7440-62-2	Vanadium	9.4	36	mg/kg	SS-79: 0-2 ft BGS (10/31/2018)	8/8	--	36	39	N	N	BSV
7440-66-6	Zinc	31	180	mg/kg	SS-80: 0-2 ft BGS (10/31/2018)	8/8	--	180	2300	N	N	BSV
	Polychlorinated Biphenyls											
12674-11-2	Aroclor-1016 (PCB-1016)	ND	ND	µg/kg	--	0/8	22 - 27	N/A	410	N	N	ND
11104-28-2	Aroclor-1221 (PCB-1221)	ND	ND	µg/kg	--	0/8	24 - 29	N/A	200	C	N	ND
11141-16-5	Aroclor-1232 (PCB-1232)	ND	ND	µg/kg	--	0/8	23 - 28	N/A	170	C	N	ND
53469-21-9	Aroclor-1242 (PCB-1242)	ND	ND	µg/kg	--	0/8	19 - 23	N/A	230	C	N	ND
12672-29-6	Aroclor-1248 (PCB-1248)	ND	ND	µg/kg	--	0/8	24 - 29	N/A	230	C	N	ND
11097-69-1	**Aroclor-1254 (PCB-1254)**	**40 J**	**760 J**	**µg/kg**	**SS-84: 0-2 ft BGS (10/31/2018)**	**4/8**	**23 - 28**	**760 J**	**120**	**C**	**Y**	**ASV**
11096-82-5	Aroclor-1260 (PCB-1260)	ND	ND	µg/kg	--	0/8	22 - 27	N/A	240	C	N	ND
	Pesticides											
72-54-8	4,4'-DDD	4.3 J	4.3 J	µg/kg	SS-78: 0-2 ft BGS (10/31/2018)	1/8	1.5 - 18	4.3 J	190	C	N	BSV
72-55-9	4,4'-DDE	5.2 J	30	µg/kg	SS-84: 0-2 ft BGS (10/31/2018)	2/8	1.5 - 18	30	2000	C	N	BSV
50-29-3	4,4'-DDT	2.9 J	13 J	µg/kg	SS-84: 0-2 ft BGS (10/31/2018)	3/8	1.2 - 14	13 J	1900	C	N	BSV
309-00-2	Aldrin	ND	ND	µg/kg	--	0/8	0.78 - 9.4	N/A	39	C	N	ND
319-84-6	alpha-BHC	1.9 J	13 J	µg/kg	SS-80: 0-2 ft BGS (10/31/2018)	2/8	0.93 - 11	13 J	86	C	N	BSV
5103-71-9	alpha-Chlordane	1.7 J	1.7 J	µg/kg	SS-81: 0.33-2.33 ft BGS (10/31/2018)	1/8	1.5 - 18	1.7 J	1700	C	N	BSV
319-85-7	beta-BHC	2.2 J	7.3 J	µg/kg	SS-81: 0.33-2.33 ft BGS (10/31/2018)	3/8	1.8 - 21	7.3 J	300	C	N	BSV
319-86-8	delta-BHC	ND	ND	µg/kg	--	0/8	1.7 - 21	N/A	300	C	N	ND
60-57-1	**Dieldrin**	**3.3 J**	**37 J**	**µg/kg**	**SS-81: 0.33-2.33 ft BGS (10/31/2018)**	**2/8**	**1.1 - 13**	**37 J**	**34**	**C**	**Y**	**ASV**

Table 13

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPC) in EU10 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU10 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Pesticides (cont.'d)											
959-98-8	Endosulfan I	ND	ND	µg/kg	--	0/8	1.2 - 15	N/A	47000	N	N	ND
33213-65-9	Endosulfan II	ND	ND	µg/kg	--	0/8	1.5 - 18	N/A	47000	N	N	ND
1031-07-8	Endosulfan sulfate	ND	ND	µg/kg	--	0/8	1.3 - 16	N/A	47000	N	N	ND
72-20-8	Endrin	ND	ND	µg/kg	--	0/8	1.9 - 23	N/A	1900	N	N	ND
7421-93-4	Endrin aldehyde	2.4 J	2.4 J	µg/kg	SS-81: 0.33-2.33 ft BGS (10/31/2018)	1/8	1.3 - 16	2.4 J	1900	N	N	BSV
53494-70-5	Endrin ketone	ND	ND	µg/kg	--	0/8	0.91 - 11	N/A	1900	N	N	ND
58-89-9	gamma-BHC (lindane)	ND	ND	µg/kg	--	0/8	1.8 - 22	N/A	570	C	N	ND
5103-74-2	gamma-Chlordane	1.8 J	1.8 J	µg/kg	SS-78: 0-2 ft BGS (10/31/2018)	2/8	1.3 - 15	1.8 J	1700	C	N	BSV
76-44-8	Heptachlor	ND	ND	µg/kg	--	0/8	1.6 - 19	N/A	130	C	N	ND
1024-57-3	Heptachlor epoxide	4.2 J	4.2 J	µg/kg	SS-81: 0.33-2.33 ft BGS (10/31/2018)	1/8	1.5 - 18	4.2 J	70	C	N	BSV
72-43-5	Methoxychlor	ND	ND	µg/kg	--	0/8	6.7 - 80	N/A	32000	N	N	ND
8001-35-2	Toxaphene	ND	ND	µg/kg	--	0/8	25 - 310	N/A	490	C	N	ND
	Herbicides											
93-76-5	2,4,5-T	ND	ND	µg/kg	--	0/1	14	N/A	63000	N	N	ND
93-72-1	2,4,5-TP (Silvex)	ND	ND	µg/kg	--	0/1	15	N/A	51000	N	N	ND
94-75-7	2,4-Dichlorophenoxyacetic acid (2,4-D)	ND	ND	µg/kg	--	0/1	54	N/A	70000	N	N	ND
	Asbestos											
1332-21-4	Asbestos	ND	ND	%	--	0/1	0.25	N/A	--		N	ND
12001-29-5	Chrysotile asbestos	ND	ND	%	--	0/1	0.25	N/A	--		N	ND

Notes:

(1) Minimum/maximum detected concentration.
(2) Based on data collected from sampling locations: SS-32, SS-78, SS-79, SS-80, SS-81, SS-82, SS-83, SS-84, SS-85, SS-163-AS, SS-164-AS.
(3) Regional Screening Level (RSL) Summary Table (TR = 1E-06, HI = 0.1) , Residential Soil, November 2018.
(4) Rationale Codes

Selection Reason: Maximum detected above Screening Value (ASV)
Analyte Detected and no Screening Value available (AD)
Deletion Reason: Maximum detected below Screening Value (BSV)
Naturally Occurring (NAT)

(5) No screening value available, surrogate screening value implemented as follows:

Chemical		Surrogate
1,3-dichlorobenzene	-	1,2-dichlorobenzene
methyl cyclohexane	-	cyclohexane
3&4-methylphenol	-	3-methylphenol
acenaphthylene	-	acenaphthene
benzo(g,h,i)perylene	-	pyrene
phenanthrene	-	pyrene
dimethylphthalate	-	diethylphthalate

Defintions:

-- = Not Available
N = Noncarcinogen
C = Carcinogen
Y = Yes
N = No
J - Estimated concentration.

Table 14

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU10 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU10 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Subsurface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Volatile Organic Compounds											
71-55-6	1,1,1-Trichloroethane	ND	ND	µg/kg	--	0/12	0.2 - 0.99	N/A	810000	N	N	ND
79-34-5	1,1,2,2-Tetrachloroethane	ND	ND	µg/kg	--	0/10	0.23 - 1.7	N/A	600	C	N	ND
79-00-5	1,1,2-Trichloroethane	ND	ND	µg/kg	--	0/11	0.34 - 1.3	N/A	150	N	N	ND
75-34-3	1,1-Dichloroethane	ND	ND	µg/kg	--	0/12	0.29 - 0.84	N/A	3.6	C	N	ND
75-35-4	1,1-Dichloroethene	ND	ND	µg/kg	--	0/12	0.48 - 1.1	N/A	23000	N	N	ND
120-82-1	1,2,4-Trichlorobenzene	ND	ND	µg/kg	--	0/10	0.21 - 0.68	N/A	5800	N	N	ND
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	ND	µg/kg	--	0/10	0.6 - 4.3	N/A	5.3	C	N	ND
106-93-4	1,2-Dibromoethane (Ethylene dibromide)	ND	ND	µg/kg	--	0/11	0.31 - 0.91	N/A	36	C	N	ND
95-50-1	1,2-Dichlorobenzene	ND	ND	µg/kg	--	0/10	0.19 - 1.3	N/A	180000	N	N	ND
107-06-2	1,2-Dichloroethane	ND	ND	µg/kg	--	0/12	0.26 - 0.93	N/A	460	C	N	ND
78-87-5	1,2-Dichloropropane	ND	ND	µg/kg	--	0/12	0.27 - 1	N/A	1600	N	N	ND
541-73-1	1,3-Dichlorobenzene	ND	ND	µg/kg	--	0/10	0.26 - 0.97	N/A	180000 (5)	N	N	ND
106-46-7	1,4-Dichlorobenzene	ND	ND	µg/kg	--	0/10	0.31 - 1	N/A	2600	C	N	ND
78-93-3	2-Butanone (Methyl ethyl ketone) (MEK)	3.1 J	19	µg/kg	SS-82: 0-2 ft BGS (10/31/2018)	5/12	1.1 - 4.3	19	2700000	N	N	BSV
591-78-6	2-Hexanone	ND	ND	µg/kg	--	0/11	0.51 - 4.8	N/A	20000	N	N	ND
108-10-1	4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ND	ND	µg/kg	--	0/11	0.79 - 4.4	N/A	3300000	N	N	ND
67-64-1	Acetone	17 J	100	µg/kg	SS-82: 0-2 ft BGS (10/31/2018)	7/12	8.8 - 25	100	6100000	N	N	BSV
71-43-2	Benzene	ND	ND	µg/kg	--	0/12	0.28 - 0.84	N/A	1200	C	N	ND
75-27-4	Bromodichloromethane	ND	ND	µg/kg	--	0/12	0.29 - 0.82	N/A	290	C	N	ND
75-25-2	Bromoform	ND	ND	µg/kg	--	0/11	0.35 - 2.8	N/A	19000	C	N	ND
74-83-9	Bromomethane (Methyl bromide)	ND	ND	µg/kg	--	0/12	0.52 - 1.2	N/A	680	N	N	ND
75-15-0	Carbon disulfide	0.34 J	0.38 J	µg/kg	BH118-18: 3-5 ft BGS (1/18/2018)	1/12	0.19 - 1.4	0.38 J	77000	N	N	BSV
56-23-5	Carbon tetrachloride	ND	ND	µg/kg	--	0/12	0.22 - 3.9	N/A	650	C	N	ND
108-90-7	Chlorobenzene	ND	ND	µg/kg	--	0/11	0.29 - 1.1	N/A	28000	N	N	ND
75-00-3	Chloroethane	ND	ND	µg/kg	--	0/12	0.34 - 1.5	N/A	1400000	N	N	ND
67-66-3	Chloroform (Trichloromethane)	ND	ND	µg/kg	--	0/12	0.2 - 0.95	N/A	320	C	N	ND
74-87-3	Chloromethane (Methyl chloride)	ND	ND	µg/kg	--	0/12	0.34 - 1.3	N/A	11000	N	N	ND
156-59-2	cis-1,2-Dichloroethene	0.93 J	0.93 J	µg/kg	SS-83: 0-2 ft BGS (10/31/2018)	1/12	0.25 - 0.77	0.93 J	16000	N	N	BSV
10061-01-5	cis-1,3-Dichloropropene	ND	ND	µg/kg	--	0/12	0.23 - 1.7	N/A	1800	C	N	ND
110-82-7	Cyclohexane	ND	ND	µg/kg	--	0/12	0.19 - 1.7	N/A	650000	N	N	ND
124-48-1	Dibromochloromethane	ND	ND	µg/kg	--	0/11	0.27 - 3.3	N/A	8300	C	N	ND
75-71-8	Dichlorodifluoromethane (CFC-12)	ND	ND	µg/kg	--	0/12	0.31 - 1.1	N/A	8700	N	N	ND
100-41-4	Ethylbenzene	ND	ND	µg/kg	--	0/11	0.24 - 1.2	N/A	5800	C	N	ND
98-82-8	Isopropyl benzene	ND	ND	µg/kg	--	0/11	0.18 - 0.99	N/A	190000	N	N	ND
79-20-9	Methyl acetate	ND	ND	µg/kg	--	0/12	1 - 4.1	N/A	7800000	N	N	ND
108-87-2	Methyl cyclohexane	ND	ND	µg/kg	--	0/12	0.2 - 1.5	N/A	650000 (5)	N	N	ND
1634-04-4	Methyl tert butyl ether (MTBE)	ND	ND	µg/kg	--	0/12	0.24 - 0.99	N/A	47000	C	N	ND
75-09-2	Methylene chloride	ND	ND	µg/kg	--	0/12	0.46 - 14	N/A	35000	N	N	ND
100-42-5	Styrene	ND	ND	µg/kg	--	0/11	0.24 - 1.4	N/A	600000	N	N	ND
127-18-4	Tetrachloroethene	ND	ND	µg/kg	--	0/11	0.33 - 0.87	N/A	8100	N	N	ND
108-88-3	Toluene	1.7 J	1.7 J	µg/kg	SS-84: 0-2 ft BGS (10/31/2018)	1/11	0.3 - 0.92	1.7 J	490000	N	N	BSV

Table 14

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU10 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU10 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Subsurface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Volatile Organic Compounds (cont.'d)											
156-60-5	trans-1,2-Dichloroethene	ND	ND	µg/kg	--	0/12	0.34 - 0.56	N/A	160000	N	N	ND
10061-02-6	trans-1,3-Dichloropropene	ND	ND	µg/kg	--	0/11	0.19 - 1.2	N/A	1800	C	N	ND
79-01-6	Trichloroethene	ND	ND	µg/kg	--	0/12	0.36 - 0.76	N/A	410	N	N	ND
75-69-4	Trichlorofluoromethane (CFC-11)	ND	ND	µg/kg	--	0/12	0.21 - 1.3	N/A	2300000	N	N	ND
76-13-1	Trifluorotrichloroethane (CFC-113)	ND	ND	µg/kg	--	0/12	0.43 - 1.5	N/A	670000	N	N	ND
75-01-4	Vinyl chloride	0.28 J	0.28 J	µg/kg	BH97-17: 13-15 ft BGS (12/8/2017)	1/12	0.25 - 1	0.28 J	59	C	N	BSV
1330-20-7	Xylenes (total)	1.5 J	1.5 J	µg/kg	SS-84: 0-2 ft BGS (10/31/2018)	1/11	0.35 - 1.9	1.5 J	58000	N	N	BSV
	Semi-Volatiles Organic Compounds											
108-60-1	2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ND	ND	µg/kg	--	0/12	10 - 22	N/A	310000	N	N	ND
95-95-4	2,4,5-Trichlorophenol	ND	ND	µg/kg	--	0/12	26 - 150	N/A	630000	N	N	ND
88-06-2	2,4,6-Trichlorophenol	ND	ND	µg/kg	--	0/12	9.4 - 140	N/A	6300	N	N	ND
120-83-2	2,4-Dichlorophenol	ND	ND	µg/kg	--	0/12	21 - 95	N/A	19000	N	N	ND
105-67-9	2,4-Dimethylphenol	ND	ND	µg/kg	--	0/12	21 - 87	N/A	130000	N	N	ND
51-28-5	2,4-Dinitrophenol	ND	ND	µg/kg	--	0/12	22 - 310	N/A	13000	N	N	ND
121-14-2	2,4-Dinitrotoluene	ND	ND	µg/kg	--	0/12	18 - 130	N/A	1700	C	N	ND
606-20-2	2,6-Dinitrotoluene	ND	ND	µg/kg	--	0/12	22 - 120	N/A	360	C	N	ND
91-58-7	2-Chloronaphthalene	ND	ND	µg/kg	--	0/12	0.47 - 30	N/A	480000	N	N	ND
95-57-8	2-Chlorophenol	ND	ND	µg/kg	--	0/12	8.6 - 22	N/A	39000	N	N	ND
91-57-6	2-Methylnaphthalene	4.5 J	770	µg/kg	SS-81: 0.33-2.33 ft BGS (10/31/2018)	12/12	--	770	240000	N	N	BSV
95-48-7	2-Methylphenol	84 J	84 J	µg/kg	SS-79: 0-2 ft BGS (10/31/2018)	1/12	12 - 67	84 J	320000	N	N	BSV
88-74-4	2-Nitroaniline	ND	ND	µg/kg	--	0/12	9.6 - 87	N/A	63000	n	N	ND
88-75-5	2-Nitrophenol	ND	ND	µg/kg	--	0/12	8.7 - 28	N/A	--		N	ND
3/4-Cresol	3&4-Methylphenol	210 J	210 J	µg/kg	SS-79: 0-2 ft BGS (10/31/2018)	1/12	21 - 63	210 J	320000 (5)	N	N	BSV
91-94-1	3,3'-Dichlorobenzidine	ND	ND	µg/kg	--	0/12	19 - 93	N/A	1200	c	N	ND
99-09-2	3-Nitroaniline	ND	ND	µg/kg	--	0/12	17 - 110	N/A	--		N	ND
534-52-1	4,6-Dinitro-2-methylphenol	ND	ND	µg/kg	--	0/12	9.7 - 170	N/A	510	N	N	ND
101-55-3	4-Bromophenyl phenyl ether	ND	ND	µg/kg	--	0/12	14 - 30	N/A	--		N	ND
59-50-7	4-Chloro-3-methylphenol	ND	ND	µg/kg	--	0/12	22 - 98	N/A	630000	N	N	ND
106-47-8	4-Chloroaniline	ND	ND	µg/kg	--	0/12	18 - 65	N/A	2700	C	N	ND
7005-72-3	4-Chlorophenyl phenyl ether	ND	ND	µg/kg	--	0/12	14 - 30	N/A	--		N	ND
100-01-6	4-Nitroaniline	ND	ND	µg/kg	--	0/12	27 - 130	N/A	25000	N	N	ND
100-02-7	4-Nitrophenol	ND	ND	µg/kg	--	0/12	18 - 200	N/A	--		N	ND
83-32-9	Acenaphthene	4.3 J	54	µg/kg	SS-83: 0-2 ft BGS (10/31/2018)	6/12	0.87 - 3.5	54	360000	N	N	BSV
208-96-8	Acenaphthylene	6.2 J	140	µg/kg	SS-83: 0-2 ft BGS (10/31/2018)	9/12	0.37 - 4.6	140	360000 (5)	N	N	BSV
98-86-2	Acetophenone	64 J	79 J	µg/kg	SS-79: 0-2 ft BGS (10/31/2018)	2/12	9.7 - 24	79 J	780000	N	N	BSV
120-12-7	Anthracene	5.0 J	270	µg/kg	SS-83: 0-2 ft BGS (10/31/2018)	12/12	--	270	1800000	N	N	BSV
1912-24-9	Atrazine	ND	ND	µg/kg	--	0/12	9.6 - 78	N/A	2400	C	N	ND
100-52-7	Benzaldehyde	69 J	110 J	µg/kg	SS-79: 0-2 ft BGS (10/31/2018)	2/12	13 - 50	110 J	170000	N	N	BSV
56-55-3	Benzo(a)anthracene	24	970	µg/kg	SS-83: 0-2 ft BGS (10/31/2018)	12/12	--	970	1100	C	N	BSV
50-32-8	**Benzo(a)pyrene**	**28**	**840**	**µg/kg**	**SS-83: 0-2 ft BGS (10/31/2018)**	**12/12**	**--**	**840**	**110**	**C**	**Y**	**ASV**

Table 14

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU10 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU10 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Subsurface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Semi-Volatiles Organic Compounds (cont.'d)											
205-99-2	**Benzo(b)fluoranthene**	**42**	**1300**	**µg/kg**	**SS-83: 0-2 ft BGS (10/31/2018)**	**12/12**	**--**	**1300**	**1100**	**C**	**Y**	**ASV**
191-24-2	Benzo(g,h,i)perylene	33	530	µg/kg	SS-83: 0-2 ft BGS (10/31/2018)	12/12	--	530	180000 (5)	N	N	BSV
207-08-9	Benzo(k)fluoranthene	15	450	µg/kg	SS-83: 0-2 ft BGS (10/31/2018)	12/12	--	450	11000	C	N	BSV
92-52-4	Biphenyl (1,1-Biphenyl)	4.4 J	110	µg/kg	SS-79: 0-2 ft BGS (10/31/2018)	5/12	4 - 37	110	4700	N	N	BSV
111-91-1	bis(2-Chloroethoxy)methane	ND	ND	µg/kg	--	0/12	12 - 26	N/A	19000	N	N	ND
111-44-4	bis(2-Chloroethyl)ether	ND	ND	µg/kg	--	0/12	2.1 - 26	N/A	230	C	N	ND
117-81-7	bis(2-Ethylhexyl)phthalate (DEHP)	38 J	110	µg/kg	SS-32: 0.25-2.25 ft BGS (10/31/2018)	3/12	20 - 110	110	39000	C	N	BSV
85-68-7	Butyl benzylphthalate (BBP)	ND	ND	µg/kg	--	0/12	11 - 48	N/A	290000	C	N	ND
105-60-2	Caprolactam	ND	ND	µg/kg	--	0/12	39 - 160	N/A	3100000	N	N	ND
86-74-8	**Carbazole**	**33 J**	**280**	**µg/kg**	**SS-83: 0-2 ft BGS (10/31/2018)**	**5/12**	**21 - 31**	**280**	**--**		**Y**	**AD**
218-01-9	Chrysene	30	870	µg/kg	SS-83: 0-2 ft BGS (10/31/2018)	12/12	--	870	110000	C	N	BSV
53-70-3	**Dibenz(a,h)anthracene**	**11 J**	**150**	**µg/kg**	**SS-83: 0-2 ft BGS (10/31/2018)**	**11/12**	**0.76 - 0.77**	**150**	**110**	**C**	**Y**	**ASV**
132-64-9	Dibenzofuran	17 J	270	µg/kg	SS-79: 0-2 ft BGS (10/31/2018)	9/12	0.69 - 14	270	7300	N	N	BSV
84-66-2	Diethyl phthalate	43 J	43 J	µg/kg	BH119-18: 9-11 ft BGS (1/18/2018)	1/12	17 - 67	43 J	5100000	N	N	BSV
131-11-3	Dimethyl phthalate	ND	ND	µg/kg	--	0/12	14 - 30	N/A	5100000 (5)	N	N	ND
84-74-2	Di-n-butylphthalate (DBP)	20 J	20 J	µg/kg	BH97-17: 13-15 ft BGS (12/8/2017)	1/12	16 - 48	20 J	630000	N	N	BSV
117-84-0	Di-n-octyl phthalate (DnOP)	ND	ND	µg/kg	--	0/12	8.3 - 61	N/A	63000	N	N	ND
206-44-0	Fluoranthene	41	2100	µg/kg	SS-83: 0-2 ft BGS (10/31/2018)	12/12	--	2100	240000	N	N	BSV
86-73-7	Fluorene	4.0 J	120	µg/kg	SS-83: 0-2 ft BGS (10/31/2018)	8/12	0.61 - 3.4	120	240000	N	N	BSV
118-74-1	Hexachlorobenzene	ND	ND	µg/kg	--	0/12	2.2 - 6.2	N/A	210	C	N	ND
87-68-3	Hexachlorobutadiene	ND	ND	µg/kg	--	0/12	5.9 - 26	N/A	1200	C	N	ND
77-47-4	Hexachlorocyclopentadiene	ND	ND	µg/kg	--	0/12	8.5 - 130	N/A	180	N	N	ND
67-72-1	Hexachloroethane	ND	ND	µg/kg	--	0/12	9.3 - 20	N/A	1800	C	N	ND
193-39-5	Indeno(1,2,3-cd)pyrene	26	490	µg/kg	SS-83: 0-2 ft BGS (10/31/2018)	12/12	--	490	1100	C	N	BSV
78-59-1	Isophorone	ND	ND	µg/kg	--	0/12	12 - 26	N/A	570000	C	N	ND
91-20-3	Naphthalene	5.6 J	460	µg/kg	SS-81: 0.33-2.33 ft BGS (10/31/2018)	12/12	--	460	3800	C	N	BSV
98-95-3	Nitrobenzene	ND	ND	µg/kg	--	0/12	2.3 - 28	N/A	5100	C	N	ND
621-64-7	N-Nitrosodi-n-propylamine	ND	ND	µg/kg	--	0/12	6.6 - 24	N/A	78	C	N	ND
86-30-6	N-Nitrosodiphenylamine	ND	ND	µg/kg	--	0/12	12 - 26	N/A	110000	C	N	ND
87-86-5	Pentachlorophenol	ND	ND	µg/kg	--	0/12	9.6 - 130	N/A	1000	C	N	ND
85-01-8	Phenanthrene	28	1300	µg/kg	SS-83: 0-2 ft BGS (10/31/2018)	12/12	--	1300	180000 (5)	N	N	BSV
108-95-2	Phenol	12 J	180	µg/kg	SS-79: 0-2 ft BGS (10/31/2018)	2/12	7.7 - 17	180	1900000	N	N	BSV
129-00-0	Pyrene	30	1500	µg/kg	SS-83: 0-2 ft BGS (10/31/2018)	12/12	--	1500	180000	N	N	BSV
	Metals											
7429-90-5	**Aluminum**	**2000**	**12000**	**mg/kg**	**SS-79: 0-2 ft BGS (10/31/2018)**	**12/12**	**--**	**12000**	**7700**	**N**	**Y**	**ASV**
7440-36-0	Antimony	0.25 J	2.0 J	mg/kg	BH118-18: 3-5 ft BGS (1/18/2018)	10/12	0.1 - 0.34	2.0 J	3.1	N	N	BSV
7440-38-2	**Arsenic**	**4**	**27**	**mg/kg**	**SS-79: 0-2 ft BGS (10/31/2018)**	**12/12**	**--**	**27**	**0.68**	**C**	**Y**	**ASV**
7440-39-3	Barium	20	690	mg/kg	SS-79: 0-2 ft BGS (10/31/2018)	12/12	--	690	1500	N	N	BSV
7440-41-7	Beryllium	0.25	2.8	mg/kg	SS-79: 0-2 ft BGS (10/31/2018)	12/12	--	2.8	16	N	N	BSV
7440-43-9	Cadmium	0.12 J	0.94	mg/kg	SS-81: 0.33-2.33 ft BGS (10/31/2018)	12/12	--	0.94	7.1	N	N	BSV
7440-70-2	Calcium	1400 J	140000	mg/kg	SS-32: 0.25-2.25 ft BGS (10/31/2018)	12/12	--	140000	--		N	NAT

Table 14

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU10 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU10 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Subsurface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Metals (cont.'d)											
16065-83-1	Chromium III (trivalent)	6.2	80	mg/kg	SS-82: 0-2 ft BGS (10/31/2018)	12/12	--	80	12000	N	N	BSV
18540-29-9	**Chromium VI (hexavalent)**	**0.30 J**	**0.88 J**	**mg/kg**	**BH97-17: 13-15 ft BGS (12/8/2017)**	**4/12**	**0.25 - 1.4**	**0.88 J**	**0.3**	**C**	**Y**	**ASV**
7440-48-4	**Cobalt**	**2.6**	**8.9**	**mg/kg**	**SS-79: 0-2 ft BGS (10/31/2018)**	**12/12**	**--**	**8.9**	**2.3**	**N**	**Y**	**ASV**
7440-50-8	Copper	8.1	92	mg/kg	BH118-18: 3-5 ft BGS (1/18/2018)	12/12	--	92	310	N	N	BSV
57-12-5	**Cyanide (total)**	**0.077 J**	**7.6**	**mg/kg**	**BH119-18: 9-11 ft BGS (1/18/2018)**	**6/12**	**0.2 - 0.27**	**7.6**	**2.3**	**N**	**Y**	**ASV**
7439-89-6	**Iron**	**7400**	**47000**	**mg/kg**	**BH118-18: 3-5 ft BGS (1/18/2018)**	**12/12**	**--**	**47000**	**5500**	**N**	**Y**	**ASV**
7439-92-1	Lead	4.5	140	mg/kg	SS-79: 0-2 ft BGS (10/31/2018)	12/12	--	140	400	C	N	BSV
7439-92-1	Lead - coarse fraction	44 J	52 J	mg/kg	SS-79: 0-2 ft BGS (10/31/2018)	2/2	--	52 J	400	C	N	BSV
7439-92-1	Lead - fine fraction	74	99	mg/kg	SS-79: 0-2 ft BGS (10/31/2018)	2/2	--	99	400	C	N	BSV
7439-92-1	Lead - total (calculated by fine/coarse fraction)	48	64	mg/kg	SS-79: 0-2 ft BGS (10/31/2018)	2/2	--	64	400	C	N	BSV
7439-95-4	Magnesium	610 J	43000	mg/kg	SS-32: 0.25-2.25 ft BGS (10/31/2018)	12/12	--	43000	--		N	NAT
7439-96-5	**Manganese**	**210**	**890 J**	**mg/kg**	**BH118-18: 3-5 ft BGS (1/18/2018)**	**12/12**	**--**	**890 J**	**180**	**N**	**Y**	**ASV**
7439-97-6	Mercury	0.024 J	0.27	mg/kg	SS-79: 0-2 ft BGS (10/31/2018)	11/12	0.021	0.27	1.1	N	N	BSV
7440-02-0	Nickel	7.4	41	mg/kg	BH118-18: 3-5 ft BGS (1/18/2018)	12/12	--	41	150	N	N	BSV
7440-09-7	Potassium	140 J	1300	mg/kg	BH119-18: 9-11 ft BGS (1/18/2018)	12/12	--	1300	--		N	NAT
7782-49-2	Selenium	0.32 J	2.3	mg/kg	BH119-18: 9-11 ft BGS (1/18/2018)	12/12	--	2.3	39	N	N	BSV
7440-22-4	Silver	0.036 J	0.23	mg/kg	SS-81: 0.33-2.33 ft BGS (10/31/2018)	11/12	0.018	0.23	39	N	N	BSV
7440-23-5	Sodium	55 J	640	mg/kg	SS-79: 0-2 ft BGS (10/31/2018)	11/12	100 - 110	640	--		N	NAT
7440-28-0	**Thallium**	**0.089 J**	**0.38**	**mg/kg**	**SS-80: 0-2 ft BGS (10/31/2018)**	**12/12**	**--**	**0.38**	**0.078**	**N**	**Y**	**ASV**
7440-62-2	Vanadium	4.6	36	mg/kg	SS-79: 0-2 ft BGS (10/31/2018)	12/12	--	36	39	N	N	BSV
7440-66-6	Zinc	31	270	mg/kg	BH119-18: 9-11 ft BGS (1/18/2018)	12/12	--	270	2300	N	N	BSV
	Polychlorinated Biphenyls											
12674-11-2	Aroclor-1016 (PCB-1016)	ND	ND	µg/kg	--	0/12	22 - 27	N/A	410	N	N	ND
11104-28-2	Aroclor-1221 (PCB-1221)	ND	ND	µg/kg	--	0/12	24 - 29	N/A	200	C	N	ND
11141-16-5	Aroclor-1232 (PCB-1232)	ND	ND	µg/kg	--	0/12	23 - 28	N/A	170	C	N	ND
53469-21-9	Aroclor-1242 (PCB-1242)	ND	ND	µg/kg	--	0/12	19 - 23	N/A	230	C	N	ND
12672-29-6	Aroclor-1248 (PCB-1248)	ND	ND	µg/kg	--	0/12	24 - 29	N/A	230	C	N	ND
11097-69-1	**Aroclor-1254 (PCB-1254)**	**40 J**	**760 J**	**µg/kg**	**SS-84: 0-2 ft BGS (10/31/2018)**	**4/12**	**23 - 28**	**760 J**	**120**	**C**	**Y**	**ASV**
11096-82-5	Aroclor-1260 (PCB-1260)	ND	ND	µg/kg	--	0/12	22 - 27	N/A	240	C	N	ND
	Pesticides											
72-54-8	4,4'-DDD	4.3 J	4.3 J	µg/kg	SS-78: 0-2 ft BGS (10/31/2018)	1/12	1.5 - 37	4.3 J	190	C	N	BSV
72-55-9	4,4'-DDE	5.2 J	30	µg/kg	SS-84: 0-2 ft BGS (10/31/2018)	2/12	1.2 - 18	30	2000	C	N	BSV
50-29-3	4,4'-DDT	2.9 J	13 J	µg/kg	SS-84: 0-2 ft BGS (10/31/2018)	3/12	1.2 - 16	13 J	1900	C	N	BSV
309-00-2	Aldrin	ND	ND	µg/kg	--	0/12	0.78 - 27	N/A	39	C	N	ND
319-84-6	alpha-BHC	1.9 J	13 J	µg/kg	SS-80: 0-2 ft BGS (10/31/2018)	2/12	0.93 - 18	13 J	86	C	N	BSV
5103-71-9	alpha-Chlordane	1.7 J	1.7 J	µg/kg	SS-81: 0.33-2.33 ft BGS (10/31/2018)	1/12	1.5 - 43	1.7 J	1700	C	N	BSV
319-85-7	beta-BHC	2.2 J	7.3 J	µg/kg	SS-81: 0.33-2.33 ft BGS (10/31/2018)	3/12	1.8 - 44	7.3 J	300	C	N	BSV
319-86-8	delta-BHC	ND	ND	µg/kg	--	0/12	1.4 - 72	N/A	300	C	N	ND
60-57-1	**Dieldrin**	**3.3 J**	**37 J**	**µg/kg**	**SS-81: 0.33-2.33 ft BGS (10/31/2018)**	**2/12**	**0.94 - 13**	**37 J**	**34**	**C**	**Y**	**ASV**
959-98-8	Endosulfan I	ND	ND	µg/kg	--	0/12	1.2 - 15	N/A	47000	N	N	ND
33213-65-9	Endosulfan II	ND	ND	µg/kg	--	0/12	1.5 - 20	N/A	47000	N	N	ND
1031-07-8	Endosulfan sulfate	ND	ND	µg/kg	--	0/12	1.2 - 66	N/A	47000	N	N	ND

Table 14

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU10 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU10 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Subsurface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Pesticides (cont.'d)											
72-20-8	Endrin	ND	ND	µg/kg	--	0/12	1.5 - 23	N/A	1900	N	N	ND
7421-93-4	Endrin aldehyde	2.4 J	2.4 J	µg/kg	SS-81: 0.33-2.33 ft BGS (10/31/2018)	1/12	1.3 - 99	2.4 J	1900	N	N	BSV
53494-70-5	Endrin ketone	ND	ND	µg/kg	--	0/12	0.91 - 12	N/A	1900	N	N	ND
58-89-9	gamma-BHC (lindane)	ND	ND	µg/kg	--	0/12	1.8 - 33	N/A	570	C	N	ND
5103-74-2	gamma-Chlordane	1.8 J	1.8 J	µg/kg	SS-78: 0-2 ft BGS (10/31/2018)	2/12	1.3 - 17	1.8 J	1700	C	N	BSV
76-44-8	Heptachlor	ND	ND	µg/kg	--	0/12	0.81 - 19	N/A	130	C	N	ND
1024-57-3	Heptachlor epoxide	4.2 J	4.2 J	µg/kg	SS-81: 0.33-2.33 ft BGS (10/31/2018)	1/12	1.5 - 27	4.2 J	70	C	N	BSV
72-43-5	Methoxychlor	1.5 NJ	1.5 NJ	µg/kg	BH117-18: 10-12 ft BGS (1/18/2018)	1/12	1.2 - 80	1.5 NJ	32000	N	N	BSV
8001-35-2	Toxaphene	ND	ND	µg/kg	--	0/12	25 - 420	N/A	490	C	N	ND
	Herbicides											
93-76-5	2,4,5-T	ND	ND	µg/kg	--	0/1	14	N/A	63000	N	N	ND
93-72-1	2,4,5-TP (Silvex)	ND	ND	µg/kg	--	0/1	15	N/A	51000	N	N	ND
94-75-7	2,4-Dichlorophenoxyacetic acid (2,4-D)	ND	ND	µg/kg	--	0/1	54	N/A	70000	N	N	ND
	Dioxins/Furans											
39001-02-0	1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	11 J	11 J	pg/g	BH97-17: 13-15 ft BGS (12/8/2017)	1/1	--	11 J	--			Refer to Total TEQ
3268-87-9	1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	150	160	pg/g	BH97-17: 13-15 ft BGS (12/8/2017)	1/1	--	160	--			Refer to Total TEQ
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	11	13	pg/g	BH97-17: 13-15 ft BGS (12/8/2017)	1/1	--	13	--			Refer to Total TEQ
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	14	14	pg/g	BH97-17: 13-15 ft BGS (12/8/2017)	1/1	--	14	--			Refer to Total TEQ
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	0.45 J	0.51 J	pg/g	BH97-17: 13-15 ft BGS (12/8/2017)	1/1	--	0.51 J	--			Refer to Total TEQ
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	0.82 J	0.87 J	pg/g	BH97-17: 13-15 ft BGS (12/8/2017)	1/1	--	0.87 J	--			Refer to Total TEQ
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	0.22 J	0.23 J	pg/g	BH97-17: 13-15 ft BGS (12/8/2017)	1/1	--	0.23 J	--			Refer to Total TEQ
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	1.2 J	1.2 J	pg/g	BH97-17: 13-15 ft BGS (12/8/2017)	1/1	--	1.2 J	--			Refer to Total TEQ
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	0.91 J	0.95 J	pg/g	BH97-17: 13-15 ft BGS (12/8/2017)	1/1	--	0.95 J	--			Refer to Total TEQ
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	ND	ND	pg/g	--	0/1	0.15 - 0.24	N/A	--			Refer to Total TEQ
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	0.60 J	0.68 J	pg/g	BH97-17: 13-15 ft BGS (12/8/2017)	1/1	--	0.68 J	--			Refer to Total TEQ
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	ND	ND	pg/g	--	0/1	0.17 - 0.21	N/A	--			Refer to Total TEQ
40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	0.32 J	0.32 J	pg/g	BH97-17: 13-15 ft BGS (12/8/2017)	1/1	0.14	0.32 J	--			Refer to Total TEQ
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	0.44 J	0.45 J	pg/g	BH97-17: 13-15 ft BGS (12/8/2017)	1/1	--	0.45 J	--			Refer to Total TEQ
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	0.41 J	0.41 J	pg/g	BH97-17: 13-15 ft BGS (12/8/2017)	1/1	0.19	0.41 J	--			Refer to Total TEQ
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran (TCDF)	0.82 J	1.2	pg/g	BH97-17: 13-15 ft BGS (12/8/2017)	1/1	--	1.2	--			Refer to Total TEQ
1746-01-6	2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	0.18 J	0.18 J	pg/g	BH97-17: 13-15 ft BGS (12/8/2017)	1/1	0.068	0.18 J	--			Refer to Total TEQ
38998-75-3	Total heptachlorodibenzofuran (HpCDF)	28 J	30 J	pg/g	BH97-17: 13-15 ft BGS (12/8/2017)	1/1	--	30 J	--			Refer to Total TEQ
37871-00-4	Total heptachlorodibenzo-p-dioxin (HpCDD)	27 J	28 J	pg/g	BH97-17: 13-15 ft BGS (12/8/2017)	1/1	--	28 J	--			Refer to Total TEQ
55684-94-1	Total hexachlorodibenzofuran (HxCDF)	25 J	30 J	pg/g	BH97-17: 13-15 ft BGS (12/8/2017)	1/1	--	30 J	--			Refer to Total TEQ
34465-46-8	Total hexachlorodibenzo-p-dioxin (HxCDD)	6.9 J	7.0 J	pg/g	BH97-17: 13-15 ft BGS (12/8/2017)	1/1	--	7.0 J	--			Refer to Total TEQ
30402-15-4	Total pentachlorodibenzofuran (PeCDF)	40 J	54 J	pg/g	BH97-17: 13-15 ft BGS (12/8/2017)	1/1	--	54 J	--			Refer to Total TEQ
36088-22-9	Total pentachlorodibenzo-p-dioxin (PeCDD)	18 J	20 J	pg/g	BH97-17: 13-15 ft BGS (12/8/2017)	1/1	--	20 J	--			Refer to Total TEQ
55722-27-5	Total tetrachlorodibenzofuran (TCDF)	49 J	64 J	pg/g	BH97-17: 13-15 ft BGS (12/8/2017)	1/1	--	64 J	--			Refer to Total TEQ
41903-57-5	Total tetrachlorodibenzo-p-dioxin (TCDD)	1.9 J	1.9 J	pg/g	BH97-17: 13-15 ft BGS (12/8/2017)	1/1	--	1.9 J	--			Refer to Total TEQ
TOTALTEQND0	Total TEQ (DL @ 0)	0.8278	1.4834	pg/g	BH97-17: 13-15 ft BGS (12/8/2017)	1/1	--	1.4834	4.8	C	N	BSV
TOTALTEQND0.5	Total TEQ (DL @ Half)	0.97545	1.49345	pg/g	BH97-17: 13-15 ft BGS (12/8/2017)	1/1	--	1.49345	4.8	C	N	BSV

Table 14

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU10 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU10 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Subsurface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)	COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Asbestos										
1332-21-4	Asbestos	ND	ND	%	--	0/5	0.25 - 1	N/A	--	N	ND
12001-29-5	Chrysotile asbestos	ND	ND	%	--	0/1	0.25	N/A	--	N	ND

Notes:

(1) Minimum/maximum detected concentration.
(2) Based on data collected from sampling locations: SS-32, SS-78, SS-79, SS-80, SS-81, SS-82, SS-83, SS-84, SS-85, SS-163-AS, SS-164-AS, BH117-18, BH-118-18, BH119-18, BH97-17.
(3) Regional Screening Level (RSL) Summary Table (TR = 1E-06, HI = 0.1) , Residential Soil, November 2018.
(4) Rationale Codes

Selection Reason: Maximum detected above Screening Value (ASV)
Analyte Detected and no Screening Value available (AD)
Deletion Reason: Maximum detected below Screening Value (BSV)
Naturally Occurring (NAT)

(5) No screening value available, surrogate screening value implemented as follows:

Chemical		Surrogate
1,3-dichlorobenzene	-	1,2-dichlorobenzene
methyl cyclohexane	-	cyclohexane
3&4-methylphenol	-	3-methylphenol
acenaphthylene	-	acenaphthene
benzo(g,h,i)perylene	-	pyrene
phenanthrene	-	pyrene
dimethylphthalate	-	diethylphthalate

Defintions:

-- = Not Available
N = Noncarcinogen
C = Carcinogen
Y = Yes
N = No
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.

Table 15

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU11 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU11 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Volatile Organic Compounds											
71-55-6	1,1,1-Trichloroethane	0.54 J	0.54 J	µg/kg	SS-25: 0-2 ft BGS (11/1/2017)	1/8	0.73 - 1	0.54 J	810000	N	N	BSV
79-34-5	1,1,2,2-Tetrachloroethane	ND	ND	µg/kg	--	0/7	0.3 - 1.8	N/A	600	C	N	ND
79-00-5	1,1,2-Trichloroethane	ND	ND	µg/kg	--	0/8	0.45 - 1.4	N/A	150	N	N	ND
75-34-3	1,1-Dichloroethane	ND	ND	µg/kg	--	0/8	0.38 - 0.87	N/A	3.6	C	N	ND
75-35-4	1,1-Dichloroethene	ND	ND	µg/kg	--	0/8	0.62 - 1.1	N/A	23000	N	N	ND
120-82-1	1,2,4-Trichlorobenzene	ND	ND	µg/kg	--	0/7	0.27 - 0.72	N/A	5800	N	N	ND
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	ND	µg/kg	--	0/7	0.78 - 4.5	N/A	5.3	C	N	ND
106-93-4	1,2-Dibromoethane (Ethylene dibromide)	ND	ND	µg/kg	--	0/8	0.4 - 0.97	N/A	36	C	N	ND
95-50-1	1,2-Dichlorobenzene	ND	ND	µg/kg	--	0/7	0.25 - 1.4	N/A	180000	N	N	ND
107-06-2	1,2-Dichloroethane	ND	ND	µg/kg	--	0/8	0.33 - 0.97	N/A	460	C	N	ND
78-87-5	1,2-Dichloropropane	ND	ND	µg/kg	--	0/8	0.35 - 1.1	N/A	1600	N	N	ND
541-73-1	1,3-Dichlorobenzene	ND	ND	µg/kg	--	0/7	0.33 - 1	N/A	180000 (5)	N	N	ND
106-46-7	1,4-Dichlorobenzene	ND	ND	µg/kg	--	0/7	0.4 - 1.1	N/A	2600	C	N	ND
78-93-3	2-Butanone (Methyl ethyl ketone) (MEK)	4.2 J	12 J	µg/kg	SS-72: 0.5-2.25 ft BGS (10/30/2018)	4/8	1.5 - 4.2	12 J	2700000	N	N	BSV
591-78-6	2-Hexanone	ND	ND	µg/kg	--	0/8	0.66 - 5.1	N/A	20000	N	N	ND
108-10-1	4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ND	ND	µg/kg	--	0/8	1 - 4.7	N/A	3300000	N	N	ND
67-64-1	Acetone	25 J	60	µg/kg	SS-73: 0.17-2.17 ft BGS (10/30/2018)	4/8	3.5 - 25	60	6100000	N	N	BSV
71-43-2	Benzene	ND	ND	µg/kg	--	0/8	0.37 - 0.88	N/A	1200	C	N	ND
75-27-4	Bromodichloromethane	ND	ND	µg/kg	--	0/8	0.38 - 0.85	N/A	290	C	N	ND
75-25-2	Bromoform	ND	ND	µg/kg	--	0/8	0.46 - 3	N/A	19000	C	N	ND
74-83-9	Bromomethane (Methyl bromide)	ND	ND	µg/kg	--	0/8	0.67 - 1.2	N/A	680	N	N	ND
75-15-0	Carbon disulfide	ND	ND	µg/kg	--	0/8	0.24 - 1.5	N/A	77000	N	N	ND
56-23-5	Carbon tetrachloride	ND	ND	µg/kg	--	0/8	0.29 - 4.1	N/A	650	C	N	ND
108-90-7	Chlorobenzene	ND	ND	µg/kg	--	0/8	0.38 - 1.2	N/A	28000	N	N	ND
75-00-3	Chloroethane	ND	ND	µg/kg	--	0/8	0.43 - 1.5	N/A	1400000	N	N	ND
67-66-3	Chloroform (Trichloromethane)	ND	ND	µg/kg	--	0/8	0.26 - 0.99	N/A	320	C	N	ND
74-87-3	Chloromethane (Methyl chloride)	ND	ND	µg/kg	--	0/8	0.43 - 1.3	N/A	11000	N	N	ND
156-59-2	cis-1,2-Dichloroethene	0.39 J	1.6 J	µg/kg	SS-72: 0.5-2.25 ft BGS (10/30/2018)	2/8	0.58 - 1.2	1.6 J	16000	N	N	BSV
10061-01-5	cis-1,3-Dichloropropene	ND	ND	µg/kg	--	0/8	0.3 - 1.8	N/A	1800	C	N	ND
110-82-7	Cyclohexane	ND	ND	µg/kg	--	0/8	0.24 - 1.7	N/A	650000	N	N	ND
124-48-1	Dibromochloromethane	ND	ND	µg/kg	--	0/8	0.34 - 3.5	N/A	8300	C	N	ND
75-71-8	Dichlorodifluoromethane (CFC-12)	ND	ND	µg/kg	--	0/8	0.4 - 1.2	N/A	8700	N	N	ND
100-41-4	Ethylbenzene	ND	ND	µg/kg	--	0/8	0.31 - 1.3	N/A	5800	C	N	ND
98-82-8	Isopropyl benzene	ND	ND	µg/kg	--	0/8	0.23 - 1	N/A	190000	N	N	ND
79-20-9	Methyl acetate	ND	ND	µg/kg	--	0/8	1.3 - 4.3	N/A	7800000	N	N	ND
108-87-2	Methyl cyclohexane	ND	ND	µg/kg	--	0/8	0.26 - 1.5	N/A	650000 (5)	N	N	ND
1634-04-4	Methyl tert butyl ether (MTBE)	ND	ND	µg/kg	--	0/8	0.31 - 1	N/A	47000	C	N	ND
75-09-2	Methylene chloride	ND	ND	µg/kg	--	0/8	0.27 - 15	N/A	35000	N	N	ND
100-42-5	Styrene	ND	ND	µg/kg	--	0/8	0.31 - 1.5	N/A	600000	N	N	ND
127-18-4	Tetrachloroethene	1.1 J	1.1 J	µg/kg	SS-25: 0-2 ft BGS (11/1/2017)	1/8	0.65 - 0.92	1.1 J	8100	N	N	BSV
108-88-3	Toluene	ND	ND	µg/kg	--	0/8	0.39 - 0.97	N/A	490000	N	N	ND
156-60-5	trans-1,2-Dichloroethene	ND	ND	µg/kg	--	0/8	0.42 - 0.59	N/A	160000	N	N	ND

Table 15

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU11 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU11 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Volatile Organic Compounds (cont.'d)											
10061-02-6	trans-1,3-Dichloropropene	ND	ND	µg/kg	--	0/8	0.24 - 1.3	N/A	1800	C	N	ND
79-01-6	Trichloroethene	1.1 J	67	µg/kg	SS-25: 0-2 ft BGS (11/1/2017)	4/8	0.57 - 0.69	67	410	N	N	BSV
75-69-4	Trichlorofluoromethane (CFC-11)	ND	ND	µg/kg	--	0/8	0.27 - 1.4	N/A	2300000	N	N	ND
76-13-1	Trifluorotrichloroethane (CFC-113)	ND	ND	µg/kg	--	0/8	0.56 - 1.6	N/A	670000	N	N	ND
75-01-4	Vinyl chloride	ND	ND	µg/kg	--	0/8	0.32 - 1.1	N/A	59	C	N	ND
1330-20-7	Xylenes (total)	ND	ND	µg/kg	--	0/8	0.46 - 2	N/A	58000	N	N	ND
	Semi-Volatiles Organic Compounds											
108-60-1	2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ND	ND	µg/kg	--	0/8	10 - 21	N/A	310000	N	N	ND
95-95-4	2,4,5-Trichlorophenol	ND	ND	µg/kg	--	0/8	27 - 150	N/A	630000	N	N	ND
88-06-2	2,4,6-Trichlorophenol	ND	ND	µg/kg	--	0/8	9.6 - 140	N/A	6300	N	N	ND
120-83-2	2,4-Dichlorophenol	ND	ND	µg/kg	--	0/8	22 - 93	N/A	19000	N	N	ND
105-67-9	2,4-Dimethylphenol	ND	ND	µg/kg	--	0/8	22 - 85	N/A	130000	N	N	ND
51-28-5	2,4-Dinitrophenol	ND	ND	µg/kg	--	0/8	23 - 300	N/A	13000	N	N	ND
121-14-2	2,4-Dinitrotoluene	ND	ND	µg/kg	--	0/8	18 - 130	N/A	1700	C	N	ND
606-20-2	2,6-Dinitrotoluene	ND	ND	µg/kg	--	0/8	23 - 120	N/A	360	C	N	ND
91-58-7	2-Chloronaphthalene	ND	ND	µg/kg	--	0/8	0.49 - 30	N/A	480000	N	N	ND
95-57-8	2-Chlorophenol	ND	ND	µg/kg	--	0/8	8.8 - 21	N/A	39000	N	N	ND
91-57-6	2-Methylnaphthalene	15 J	610	µg/kg	SS-73: 0.17-2.17 ft BGS (10/30/2018)	8/8	--	610	240000	N	N	BSV
95-48-7	2-Methylphenol	ND	ND	µg/kg	--	0/8	12 - 66	N/A	320000	N	N	ND
88-74-4	2-Nitroaniline	ND	ND	µg/kg	--	0/8	9.8 - 85	N/A	63000	n	N	ND
88-75-5	2-Nitrophenol	ND	ND	µg/kg	--	0/8	9 - 28	N/A	--		N	ND
3/4-Cresol	3&4-Methylphenol	ND	ND	µg/kg	--	0/8	22 - 61	N/A	320000 (5)	N	N	ND
91-94-1	3,3'-Dichlorobenzidine	ND	ND	µg/kg	--	0/8	19 - 91	N/A	1200	c	N	ND
99-09-2	3-Nitroaniline	ND	ND	µg/kg	--	0/8	17 - 100	N/A	--		N	ND
534-52-1	4,6-Dinitro-2-methylphenol	ND	ND	µg/kg	--	0/8	9.9 - 170	N/A	510	N	N	ND
101-55-3	4-Bromophenyl phenyl ether	ND	ND	µg/kg	--	0/8	14 - 30	N/A	--		N	ND
59-50-7	4-Chloro-3-methylphenol	ND	ND	µg/kg	--	0/8	23 - 95	N/A	630000	N	N	ND
106-47-8	4-Chloroaniline	ND	ND	µg/kg	--	0/8	18 - 64	N/A	2700	C	N	ND
7005-72-3	4-Chlorophenyl phenyl ether	ND	ND	µg/kg	--	0/8	14 - 30	N/A	--		N	ND
100-01-6	4-Nitroaniline	ND	ND	µg/kg	--	0/8	28 - 130	N/A	25000	N	N	ND
100-02-7	4-Nitrophenol	ND	ND	µg/kg	--	0/8	18 - 200	N/A	--		N	ND
83-32-9	Acenaphthene	5.0 J	48	µg/kg	SS-74: 0-2 ft BGS (10/30/2018)	6/8	3.1 - 3.3	48	360000	N	N	BSV
208-96-8	Acenaphthylene	5.1 J	120	µg/kg	SS-72: 0.5-2.25 ft BGS (10/30/2018)	7/8	4.7	120	360000 (5)	N	N	BSV
98-86-2	Acetophenone	26 J	53 J	µg/kg	SS-73: 0.17-2.17 ft BGS (10/30/2018)	2/8	12 - 23	53 J	780000	N	N	BSV
120-12-7	Anthracene	14 J	200	µg/kg	SS-74: 0-2 ft BGS (10/30/2018)	7/8	2.8	200	1800000	N	N	BSV
1912-24-9	Atrazine	ND	ND	µg/kg	--	0/8	9.8 - 76	N/A	2400	C	N	ND
100-52-7	Benzaldehyde	25 J	55 J	µg/kg	SS-73: 0.17-2.17 ft BGS (10/30/2018)	2/8	25 - 49	55 J	170000	N	N	BSV
56-55-3	**Benzo(a)anthracene**	**11 J**	**1200**	**µg/kg**	**SS-74: 0-2 ft BGS (10/30/2018)**	**8/8**	**--**	**1200**	**1100**	**C**	**Y**	**ASV**
50-32-8	**Benzo(a)pyrene**	**33**	**1400**	**µg/kg**	**SS-74: 0-2 ft BGS (10/30/2018)**	**7/8**	**11**	**1400**	**110**	**C**	**Y**	**ASV**
205-99-2	**Benzo(b)fluoranthene**	**14 J**	**2000**	**µg/kg**	**SS-74: 0-2 ft BGS (10/30/2018)**	**8/8**	**--**	**2000**	**1100**	**C**	**Y**	**ASV**

Table 15

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU11 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU11 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Semi-Volatiles Organic Compounds (cont.'d)											
191-24-2	Benzo(g,h,i)perylene	8.5 J	940	µg/kg	SS-74: 0-2 ft BGS (10/30/2018)	8/8	--	940	180000 (5)	N	N	BSV
207-08-9	Benzo(k)fluoranthene	28	640	µg/kg	SS-74: 0-2 ft BGS (10/30/2018)	7/8	8.1	640	11000	C	N	BSV
92-52-4	Biphenyl (1,1-Biphenyl)	7.4 J	56 J	µg/kg	SS-73: 0.17-2.17 ft BGS (10/30/2018)	2/8	18 - 36	56 J	4700	N	N	BSV
111-91-1	bis(2-Chloroethoxy)methane	ND	ND	µg/kg	--	0/8	13 - 25	N/A	19000	N	N	ND
111-44-4	bis(2-Chloroethyl)ether	ND	ND	µg/kg	--	0/8	2.2 - 25	N/A	230	C	N	ND
117-81-7	bis(2-Ethylhexyl)phthalate (DEHP)	69 J	630	µg/kg	SS-25: 0-2 ft BGS (11/1/2017)	2/8	55 - 110	630	39000	C	N	BSV
85-68-7	Butyl benzylphthalate (BBP)	41 J	41 J	µg/kg	SS-70: 0-2 ft BGS (10/30/2018)	1/8	11 - 47	41 J	290000	C	N	BSV
105-60-2	Caprolactam	44 J	44 J	µg/kg	SS-25: 0-2 ft BGS (11/1/2017)	1/8	80 - 160	44 J	3100000	N	N	BSV
86-74-8	**Carbazole**	**25 J**	**120**	**µg/kg**	**SS-74: 0-2 ft BGS (10/30/2018)**	**6/8**	**22 - 29**	**120**	**--**		**Y**	**AD**
218-01-9	Chrysene	17	1300	µg/kg	SS-74: 0-2 ft BGS (10/30/2018)	8/8	--	1300	110000	C	N	BSV
53-70-3	**Dibenz(a,h)anthracene**	**19**	**220**	**µg/kg**	**SS-74: 0-2 ft BGS (10/30/2018)**	**6/8**	**0.71 - 8**	**220**	**110**	**C**	**Y**	**ASV**
132-64-9	Dibenzofuran	13 J	150	µg/kg	SS-73: 0.17-2.17 ft BGS (10/30/2018)	7/8	14	150	7300	N	N	BSV
84-66-2	Diethyl phthalate	ND	ND	µg/kg	--	0/8	17 - 66	N/A	5100000	N	N	ND
131-11-3	Dimethyl phthalate	ND	ND	µg/kg	--	0/8	15 - 30	N/A	5100000 (5)	N	N	ND
84-74-2	Di-n-butylphthalate (DBP)	27 J	27 J	µg/kg	SS-72: 0.5-2.25 ft BGS (10/30/2018)	1/8	16 - 47	27 J	630000	N	N	BSV
117-84-0	Di-n-octyl phthalate (DnOP)	ND	ND	µg/kg	--	0/8	8.5 - 59	N/A	63000	N	N	ND
206-44-0	Fluoranthene	16 J	2000	µg/kg	SS-74: 0-2 ft BGS (10/30/2018)	8/8	--	2000	240000	N	N	BSV
86-73-7	Fluorene	3.8 J	85	µg/kg	SS-75: 0.5-2.5 ft BGS (10/30/2018)	7/8	3.2	85	240000	N	N	BSV
118-74-1	Hexachlorobenzene	ND	ND	µg/kg	--	0/8	2.3 - 6	N/A	210	C	N	ND
87-68-3	Hexachlorobutadiene	ND	ND	µg/kg	--	0/8	6 - 25	N/A	1200	C	N	ND
77-47-4	Hexachlorocyclopentadiene	ND	ND	µg/kg	--	0/8	8.7 - 130	N/A	180	N	N	ND
67-72-1	Hexachloroethane	ND	ND	µg/kg	--	0/8	9.6 - 19	N/A	1800	C	N	ND
193-39-5	Indeno(1,2,3-cd)pyrene	23	910	µg/kg	SS-74: 0-2 ft BGS (10/30/2018)	7/8	8.6	910	1100	C	N	BSV
78-59-1	Isophorone	ND	ND	µg/kg	--	0/8	13 - 25	N/A	570000	C	N	ND
91-20-3	Naphthalene	11 J	400	µg/kg	SS-73: 0.17-2.17 ft BGS (10/30/2018)	8/8	--	400	3800	C	N	BSV
98-95-3	Nitrobenzene	ND	ND	µg/kg	--	0/8	2.4 - 28	N/A	5100	C	N	ND
621-64-7	N-Nitrosodi-n-propylamine	ND	ND	µg/kg	--	0/8	6.8 - 23	N/A	78	C	N	ND
86-30-6	N-Nitrosodiphenylamine	ND	ND	µg/kg	--	0/8	13 - 25	N/A	110000	C	N	ND
87-86-5	Pentachlorophenol	ND	ND	µg/kg	--	0/8	9.8 - 120	N/A	1000	C	N	ND
85-01-8	Phenanthrene	34	900	µg/kg	SS-74: 0-2 ft BGS (10/30/2018)	8/8	--	900	180000 (5)	N	N	BSV
108-95-2	Phenol	ND	ND	µg/kg	--	0/8	7.9 - 17	N/A	1900000	N	N	ND
129-00-0	Pyrene	19	1800	µg/kg	SS-74: 0-2 ft BGS (10/30/2018)	8/8	--	1800	180000	N	N	BSV
	Metals											
7429-90-5	**Aluminum**	**3300**	**11000**	**mg/kg**	**SS-75: 0.5-2.5 ft BGS (10/30/2018)**	**8/8**	**--**	**11000**	**7700**	**N**	**Y**	**ASV**
7440-36-0	Antimony	0.19 J	2.4 J	mg/kg	SS-75: 0.5-2.5 ft BGS (10/30/2018)	8/8	--	2.4 J	3.1	N	N	BSV
7440-38-2	**Arsenic**	**3.9**	**13**	**mg/kg**	**SS-71: 0-2 ft BGS (10/30/2018)**	**8/8**	**--**	**13**	**0.68**	**C**	**Y**	**ASV**
7440-39-3	Barium	35 J	240	mg/kg	SS-76: 0-2 ft BGS (10/30/2018)	8/8	--	240	1500	N	N	BSV
7440-41-7	Beryllium	0.22	1.1	mg/kg	SS-75: 0.5-2.5 ft BGS (10/30/2018)	8/8	--	1.1	16	N	N	BSV
7440-43-9	Cadmium	0.21	1	mg/kg	SS-73: 0.17-2.17 ft BGS (10/30/2018)	8/8	--	1	7.1	N	N	BSV
7440-70-2	Calcium	28000	150000	mg/kg	SS-73: 0.17-2.17 ft BGS (10/30/2018)	8/8	--	150000	--		N	NAT
16065-83-1	Chromium III (trivalent)	7.2	24	mg/kg	SS-74: 0-2 ft BGS (10/30/2018)	8/8	--	24	12000	N	N	BSV

Table 15

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU11 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU11 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Metals (cont.'d)											
18540-29-9	**Chromium VI (hexavalent)**	**0.60 J**	**3.6**	**mg/kg**	**SS-25: 0-2 ft BGS (11/1/2017)**	**2/8**	**0.26 - 1.4**	**3.6**	**0.3**	**C**	**Y**	**ASV**
7440-48-4	**Cobalt**	**3.5**	**6.9**	**mg/kg**	**SS-75: 0.5-2.5 ft BGS (10/30/2018)**	**8/8**	**--**	**6.9**	**2.3**	**N**	**Y**	**ASV**
7440-50-8	Copper	11	120	mg/kg	SS-25: 0-2 ft BGS (11/1/2017)	8/8	--	120	310	N	N	BSV
57-12-5	Cyanide (total)	0.21 J	0.27 J	mg/kg	SS-75: 0.5-2.5 ft BGS (10/30/2018)	3/8	0.18 - 0.46	0.27 J	2.3	N	N	BSV
7439-89-6	**Iron**	**8200**	**25000**	**mg/kg**	**SS-75: 0.5-2.5 ft BGS (10/30/2018)**	**8/8**	**--**	**25000**	**5500**	**N**	**Y**	**ASV**
7439-92-1	Lead	17 J	160	mg/kg	SS-72: 0.5-2.25 ft BGS (10/30/2018)	8/8	--	160	400	C	N	BSV
7439-92-1	Lead - coarse fraction	31	82	mg/kg	SS-72: 0.5-2.25 ft BGS (10/30/2018)	2/2	--	82	400	C	N	BSV
7439-92-1	Lead - fine fraction	85	150	mg/kg	SS-72: 0.5-2.25 ft BGS (10/30/2018)	2/2	--	150	400	C	N	BSV
7439-92-1	Lead - total (calculated by fine/coarse fraction)	35	89	mg/kg	SS-72: 0.5-2.25 ft BGS (10/30/2018)	2/2	--	89	400	C	N	BSV
7439-95-4	Magnesium	12000	83000	mg/kg	SS-73: 0.17-2.17 ft BGS (10/30/2018)	8/8	--	83000	--		N	NAT
7439-96-5	**Manganese**	**280**	**550**	**mg/kg**	**SS-76: 0-2 ft BGS (10/30/2018)**	**8/8**	**--**	**550**	**180**	**N**	**Y**	**ASV**
7439-97-6	Mercury	0.023 J	0.85	mg/kg	SS-75: 0.5-2.5 ft BGS (10/30/2018)	8/8	--	0.85	1.1	N	N	BSV
7440-02-0	Nickel	7.6	20	mg/kg	SS-74: 0-2 ft BGS (10/30/2018)	8/8	--	20	150	N	N	BSV
7440-09-7	Potassium	410	1300	mg/kg	SS-75: 0.5-2.5 ft BGS (10/30/2018)	8/8	--	1300	--		N	NAT
7782-49-2	Selenium	0.17 J	0.50 J	mg/kg	SS-75: 0.5-2.5 ft BGS (10/30/2018)	7/8	0.93	0.50 J	39	N	N	BSV
7440-22-4	Silver	0.039 J	0.16 J	mg/kg	SS-25: 0-2 ft BGS (11/1/2017)	8/8	--	0.16 J	39	N	N	BSV
7440-23-5	Sodium	78 J	590	mg/kg	SS-75: 0.5-2.5 ft BGS (10/30/2018)	7/8	100	590	--		N	NAT
7440-28-0	**Thallium**	**0.12 J**	**0.24**	**mg/kg**	**SS-75: 0.5-2.5 ft BGS (10/30/2018)**	**7/8**	**0.095**	**0.24**	**0.078**	**N**	**Y**	**ASV**
7440-62-2	Vanadium	8.6	33	mg/kg	SS-70: 0-2 ft BGS (10/30/2018)	8/8	--	33	39	N	N	BSV
7440-66-6	Zinc	38 J	100 J	mg/kg	SS-72: 0.5-2.25 ft BGS (10/30/2018)	8/8	--	100 J	2300	N	N	BSV
	Polychlorinated Biphenyls											
12674-11-2	Aroclor-1016 (PCB-1016)	ND	ND	µg/kg	--	0/8	23 - 26	N/A	410	N	N	ND
11104-28-2	Aroclor-1221 (PCB-1221)	ND	ND	µg/kg	--	0/8	25 - 27	N/A	200	C	N	ND
11141-16-5	Aroclor-1232 (PCB-1232)	ND	ND	µg/kg	--	0/8	17 - 26	N/A	170	C	N	ND
53469-21-9	Aroclor-1242 (PCB-1242)	ND	ND	µg/kg	--	0/8	20 - 22	N/A	230	C	N	ND
12672-29-6	Aroclor-1248 (PCB-1248)	ND	ND	µg/kg	--	0/8	18 - 27	N/A	230	C	N	ND
11097-69-1	**Aroclor-1254 (PCB-1254)**	**96**	**910**	**µg/kg**	**SS-75: 0.5-2.5 ft BGS (10/30/2018)**	**4/8**	**24 - 26**	**910**	**120**	**C**	**Y**	**ASV**
11096-82-5	Aroclor-1260 (PCB-1260)	23 J	36 J	µg/kg	SS-71: 0-2 ft BGS (10/30/2018)	2/8	19 - 25	36 J	240	C	N	BSV
	Pesticides											
72-54-8	4,4'-DDD	ND	ND	µg/kg	--	0/8	15 - 71	N/A	190	C	N	ND
72-55-9	4,4'-DDE	ND	ND	µg/kg	--	0/8	16 - 26	N/A	2000	C	N	ND
50-29-3	4,4'-DDT	ND	ND	µg/kg	--	0/8	12 - 30	N/A	1900	C	N	ND
309-00-2	Aldrin	ND	ND	µg/kg	--	0/8	8 - 52	N/A	39	C	N	ND
319-84-6	alpha-BHC	ND	ND	µg/kg	--	0/8	9.4 - 35	N/A	86	C	N	ND
5103-71-9	alpha-Chlordane	ND	ND	µg/kg	--	0/8	16 - 82	N/A	1700	C	N	ND
319-85-7	beta-BHC	ND	ND	µg/kg	--	0/8	18 - 84	N/A	300	C	N	ND
319-86-8	delta-BHC	ND	ND	µg/kg	--	0/8	17 - 91	N/A	300	C	N	ND
60-57-1	Dieldrin	ND	ND	µg/kg	--	0/8	11 - 19	N/A	34	C	N	ND

Table 15

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU11 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU11 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Pesticides (cont.'d)											
959-98-8	Endosulfan I	ND	ND	µg/kg	--	0/8	12 - 28	N/A	47000	N	N	ND
33213-65-9	Endosulfan II	ND	ND	µg/kg	--	0/8	15 - 39	N/A	47000	N	N	ND
1031-07-8	Endosulfan sulfate	ND	ND	µg/kg	--	0/8	13 - 26	N/A	47000	N	N	ND
72-20-8	Endrin	ND	ND	µg/kg	--	0/8	20 - 30	N/A	1900	N	N	ND
7421-93-4	Endrin aldehyde	ND	ND	µg/kg	--	0/8	14 - 39	N/A	1900	N	N	ND
53494-70-5	Endrin ketone	ND	ND	µg/kg	--	0/8	9.2 - 24	N/A	1900	N	N	ND
58-89-9	gamma-BHC (lindane)	ND	ND	µg/kg	--	0/8	19 - 63	N/A	570	C	N	ND
5103-74-2	gamma-Chlordane	ND	ND	µg/kg	--	0/8	13 - 32	N/A	1700	C	N	ND
76-44-8	Heptachlor	ND	ND	µg/kg	--	0/8	16 - 18	N/A	130	C	N	ND
1024-57-3	Heptachlor epoxide	ND	ND	µg/kg	--	0/8	15 - 52	N/A	70	C	N	ND
72-43-5	Methoxychlor	ND	ND	µg/kg	--	0/8	26 - 74	N/A	32000	N	N	ND
8001-35-2	Toxaphene	ND	ND	µg/kg	--	0/8	260 - 800	N/A	490	C	N	ND
	Herbicides											
93-76-5	2,4,5-T	ND	ND	µg/kg	--	0/1	16	N/A	63000	N	N	ND
93-72-1	2,4,5-TP (Silvex)	ND	ND	µg/kg	--	0/1	17	N/A	51000	N	N	ND
94-75-7	2,4-Dichlorophenoxyacetic acid (2,4-D)	ND	ND	µg/kg	--	0/1	61	N/A	70000	N	N	ND
	Asbestos											
1332-21-4	Asbestos	ND	ND	%	--	0/2	0.25	N/A	--		N	ND

Notes:

(1) Minimum/maximum detected concentration.
(2) Based on data collected from sampling locations: SS-25, SS-70, SS-71, SS-72, SS-73, SS-74, SS-75, SS-76, SS-77, SS-165-AS, SS-166-AS.
(3) Regional Screening Level (RSL) Summary Table (TR = 1E-06, HI = 0.1) , Residential Soil, November 2018.
(4) Rationale Codes

Selection Reason: Maximum detected above Screening Value (ASV)
Analyte Detected and no Screening Value available (AD)
Deletion Reason: Maximum detected below Screening Value (BSV)
Naturally Occurring (NAT)

(5) No screening value available, surrogate screening value implemented as follows:

Chemical		Surrogate
1,3-dichlorobenzene	-	1,2-dichlorobenzene
methyl cyclohexane	-	cyclohexane
3&4-methylphenol	-	3-methylphenol
acenaphthylene	-	acenaphthene
benzo(g,h,i)perylene	-	pyrene
phenanthrene	-	pyrene
dimethylphthalate	-	diethylphthalate

Defintions:

-- = Not Available
N = Noncarcinogen
C = Carcinogen
Y = Yes
N = No
J - Estimated concentration.

Table 16

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU11 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU11 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Minimum Qualifier	Maximum Concentration (1, 2)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Volatile Organic Compounds													
71-55-6	1,1,1-Trichloroethane	0.54 J		0.54 J		µg/kg	SS-25: 0-2 ft BGS (11/1/2017)	1/16	0.2 - 77	0.54 J	810000	N	N	BSV
79-34-5	1,1,2,2-Tetrachloroethane	ND		ND		µg/kg	--	0/15	0.22 - 66	N/A	600	C	N	ND
79-00-5	1,1,2-Trichloroethane	ND		ND		µg/kg	--	0/16	0.34 - 63	N/A	150	N	N	ND
75-34-3	1,1-Dichloroethane	ND		ND		µg/kg	--	0/16	0.29 - 85	N/A	3.6	C	N	ND
75-35-4	1,1-Dichloroethene	ND		ND		µg/kg	--	0/16	0.47 - 99	N/A	23000	N	N	ND
120-82-1	1,2,4-Trichlorobenzene	ND		ND		µg/kg	--	0/15	0.21 - 71	N/A	5800	N	N	ND
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND		ND		µg/kg	--	0/15	0.59 - 130	N/A	5.3	C	N	ND
106-93-4	1,2-Dibromoethane (Ethylene dibromide)	ND		ND		µg/kg	--	0/16	0.3 - 63	N/A	36	C	N	ND
95-50-1	1,2-Dichlorobenzene	ND		ND		µg/kg	--	0/15	0.19 - 49	N/A	180000	N	N	ND
107-06-2	1,2-Dichloroethane	ND		ND		µg/kg	--	0/16	0.25 - 82	N/A	460	C	N	ND
78-87-5	1,2-Dichloropropane	ND		ND		µg/kg	--	0/16	0.27 - 82	N/A	1600	N	N	ND
541-73-1	1,3-Dichlorobenzene	ND		ND		µg/kg	--	0/15	0.25 - 100	N/A	180000 (5)	N	N	ND
106-46-7	1,4-Dichlorobenzene	ND		ND		µg/kg	--	0/15	0.3 - 74	N/A	2600	C	N	ND
78-93-3	2-Butanone (Methyl ethyl ketone) (MEK)	4.2 J		12 J		µg/kg	SS-72: 0.5-2.25 ft BGS (10/30/2018)	4/16	1.1 - 140	12 J	2700000	N	N	BSV
591-78-6	2-Hexanone	ND		ND		µg/kg	--	0/16	0.5 - 240	N/A	20000	N	N	ND
108-10-1	4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ND		ND		µg/kg	--	0/16	0.77 - 110	N/A	3300000	N	N	ND
67-64-1	Acetone	25 J		60		µg/kg	SS-73: 0.17-2.17 ft BGS (10/30/2018)	4/14	2.6 - 270	60	6100000	N	N	BSV
71-43-2	Benzene	ND		ND		µg/kg	--	0/16	0.28 - 66	N/A	1200	C	N	ND
75-27-4	Bromodichloromethane	ND		ND		µg/kg	--	0/16	0.29 - 49	N/A	290	C	N	ND
75-25-2	Bromoform	ND		ND		µg/kg	--	0/16	0.35 - 63	N/A	19000	C	N	ND
74-83-9	Bromomethane (Methyl bromide)	ND		ND		µg/kg	--	0/16	0.51 - 77	N/A	680	N	N	ND
75-15-0	Carbon disulfide	ND		ND		µg/kg	--	0/16	0.18 - 49	N/A	77000	N	N	ND
56-23-5	Carbon tetrachloride	ND		ND		µg/kg	--	0/16	0.22 - 74	N/A	650	C	N	ND
108-90-7	Chlorobenzene	ND		ND		µg/kg	--	0/16	0.29 - 82	N/A	28000	N	N	ND
75-00-3	Chloroethane	ND		ND		µg/kg	--	0/16	0.33 - 77	N/A	1400000	N	N	ND
67-66-3	Chloroform (Trichloromethane)	ND		ND		µg/kg	--	0/16	0.2 - 66	N/A	320	C	N	ND
74-87-3	Chloromethane (Methyl chloride)	ND		ND		µg/kg	--	0/16	0.33 - 49	N/A	11000	N	N	ND
156-59-2	cis-1,2-Dichloroethene	0.39 J		1.6 J		µg/kg	SS-72: 0.5-2.25 ft BGS (10/30/2018)	2/16	0.24 - 96	1.6 J	16000	N	N	BSV
10061-01-5	cis-1,3-Dichloropropene	ND		ND		µg/kg	--	0/16	0.22 - 63	N/A	1800	C	N	ND
110-82-7	Cyclohexane	ND		ND		µg/kg	--	0/16	0.18 - 82	N/A	650000	N	N	ND
124-48-1	Dibromochloromethane	ND		ND		µg/kg	--	0/16	0.26 - 93	N/A	8300	C	N	ND
75-71-8	Dichlorodifluoromethane (CFC-12)	ND		ND		µg/kg	--	0/16	0.3 - 60	N/A	8700	N	N	ND
100-41-4	Ethylbenzene	0.30 J		8.6 J		µg/kg	BH115-18: 3-5 ft BGS (1/11/2018)	2/16	0.23 - 96	8.6 J	5800	C	N	BSV
98-82-8	Isopropyl benzene	1.4 J		1.4 J		µg/kg	BH115-18: 3-5 ft BGS (1/11/2018)	1/16	0.17 - 93	1.4 J	190000	N	N	BSV
79-20-9	Methyl acetate	ND		ND		µg/kg	--	0/16	1 - 210	N/A	7800000	N	N	ND
108-87-2	Methyl cyclohexane	0.25 J		0.25 J		µg/kg	BH114-18: 3-5 ft BGS (1/11/2018)	1/16	0.2 - 100	0.25 J	650000 (5)	N	N	BSV
1634-04-4	Methyl tert butyl ether (MTBE)	ND		ND		µg/kg	--	0/16	0.23 - 71	N/A	47000	C	N	ND
75-09-2	Methylene chloride	ND		ND		µg/kg	--	0/16	0.27 - 180	N/A	35000	N	N	ND
100-42-5	Styrene	ND		ND		µg/kg	--	0/16	0.23 - 27	N/A	600000	N	N	ND
127-18-4	Tetrachloroethene	1.1 J		1.1 J		µg/kg	SS-25: 0-2 ft BGS (11/1/2017)	1/16	0.32 - 58	1.1 J	8100	N	N	BSV
108-88-3	Toluene	0.32 J		75 J		µg/kg	TP-13: 8-10 ft BGS (11/1/2017)	3/16	0.32 - 5.3	75 J	490000	N	N	BSV

Table 16

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU11 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU11 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Minimum Qualifier	Maximum Concentration (1, 2)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Volatile Organic Compounds (cont.'d)													
156-60-5	trans-1,2-Dichloroethene	ND		ND		µg/kg	--	0/16	0.33 - 96	N/A	160000	N	N	ND
10061-02-6	trans-1,3-Dichloropropene	ND		ND		µg/kg	--	0/16	0.18 - 41	N/A	1800	C	N	ND
79-01-6	**Trichloroethene**	**0.45 J**		**2400**		**µg/kg**	**TP-13: 8-10 ft BGS (11/1/2017)**	**7/16**	**0.35 - 5.3**	**2400**	**410**	**N**	**Y**	**ASV**
75-69-4	Trichlorofluoromethane (CFC-11)	ND		ND		µg/kg	--	0/16	0.21 - 93	N/A	2300000	N	N	ND
76-13-1	Trifluorotrichloroethane (CFC-113)	ND		ND		µg/kg	--	0/16	0.42 - 63	N/A	670000	N	N	ND
75-01-4	Vinyl chloride	ND		ND		µg/kg	--	0/16	0.24 - 47	N/A	59	C	N	ND
1330-20-7	Xylenes (total)	1.0 J		6.4 J		µg/kg	BH115-18: 3-5 ft BGS (1/11/2018)	3/16	0.35 - 77	6.4 J	58000	N	N	BSV
	Semi-Volatiles Organic Compounds													
108-60-1	2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ND		ND		µg/kg	--	0/16	10 - 220	N/A	310000	N	N	ND
95-95-4	2,4,5-Trichlorophenol	ND		ND		µg/kg	--	0/16	27 - 330	N/A	630000	N	N	ND
88-06-2	2,4,6-Trichlorophenol	ND		ND		µg/kg	--	0/16	9.6 - 330	N/A	6300	N	N	ND
120-83-2	2,4-Dichlorophenol	ND		ND		µg/kg	--	0/16	22 - 330	N/A	19000	N	N	ND
105-67-9	2,4-Dimethylphenol	ND		ND		µg/kg	--	0/16	22 - 330	N/A	130000	N	N	ND
51-28-5	2,4-Dinitrophenol	ND		ND		µg/kg	--	0/16	23 - 720	N/A	13000	N	N	ND
121-14-2	2,4-Dinitrotoluene	ND		ND		µg/kg	--	0/16	18 - 430	N/A	1700	C	N	ND
606-20-2	2,6-Dinitrotoluene	ND		ND		µg/kg	--	0/16	23 - 430	N/A	360	C	N	ND
91-58-7	2-Chloronaphthalene	ND		ND		µg/kg	--	0/16	0.48 - 110	N/A	480000	N	N	ND
95-57-8	2-Chlorophenol	ND		ND		µg/kg	--	0/16	8.8 - 110	N/A	39000	N	N	ND
91-57-6	2-Methylnaphthalene	8.4		610		µg/kg	SS-73: 0.17-2.17 ft BGS (10/30/2018)	13/16	7.2 - 7.4	610	240000	N	N	BSV
95-48-7	2-Methylphenol	ND		ND		µg/kg	--	0/16	12 - 430	N/A	320000	N	N	ND
88-74-4	2-Nitroaniline	ND		ND		µg/kg	--	0/16	9.8 - 430	N/A	63000	n	N	ND
88-75-5	2-Nitrophenol	ND		ND		µg/kg	--	0/16	8.9 - 110	N/A	--		N	ND
3/4-Cresol	3&4-Methylphenol	ND		ND		µg/kg	--	0/12	22 - 61	N/A	320000 (5)	N	N	ND
91-94-1	3,3'-Dichlorobenzidine	ND		ND		µg/kg	--	0/15	19 - 220	N/A	1200	c	N	ND
99-09-2	3-Nitroaniline	ND		ND		µg/kg	--	0/16	17 - 430	N/A	--		N	ND
106-44-5	4-Methylphenol	ND		ND		µg/kg	--	0/4	220 - 430	N/A	630000	N	N	ND
534-52-1	4,6-Dinitro-2-methylphenol	ND		ND		µg/kg	--	0/16	9.9 - 330	N/A	510	N	N	ND
101-55-3	4-Bromophenyl phenyl ether	ND		ND		µg/kg	--	0/16	14 - 110	N/A	--		N	ND
59-50-7	4-Chloro-3-methylphenol	ND		ND		µg/kg	--	0/16	23 - 330	N/A	630000	N	N	ND
106-47-8	4-Chloroaniline	ND		ND		µg/kg	--	0/16	18 - 330	N/A	2700	C	N	ND
7005-72-3	4-Chlorophenyl phenyl ether	ND		ND		µg/kg	--	0/16	14 - 110	N/A	--		N	ND
100-01-6	4-Nitroaniline	ND		ND		µg/kg	--	0/16	28 - 430	N/A	25000	N	N	ND
100-02-7	4-Nitrophenol	ND		ND		µg/kg	--	0/16	18 - 720	N/A	--		N	ND
83-32-9	Acenaphthene	5.0 J		56		µg/kg	TT-11: 10 ft BGS (10/2/2008)	10/16	0.82 - 7.4	56	360000	N	N	BSV
208-96-8	Acenaphthylene	4.0 J		120		µg/kg	SS-72: 0.5-2.25 ft BGS (10/30/2018)	12/16	0.38 - 7.4	120	360000 (5)	N	N	BSV
98-86-2	Acetophenone	26 J		53 J		µg/kg	SS-73: 0.17-2.17 ft BGS (10/30/2018)	3/16	9.9 - 220	53 J	780000	N	N	BSV
120-12-7	Anthracene	4.3 J		200		µg/kg	SS-74: 0-2 ft BGS (10/30/2018)	13/16	2.8 - 7.4	200	1800000	N	N	BSV
1912-24-9	Atrazine	ND		ND		µg/kg	--	0/16	9.8 - 430	N/A	2400	C	N	ND
100-52-7	Benzaldehyde	25 J		55 J		µg/kg	SS-73: 0.17-2.17 ft BGS (10/30/2018)	3/16	13 - 220	55 J	170000	N	N	BSV
56-55-3	**Benzo(a)anthracene**	**11 J**		**1200**		**µg/kg**	**SS-74: 0-2 ft BGS (10/30/2018)**	**16/16**	**--**	**1200**	**1100**	**C**	**Y**	**ASV**
50-32-8	**Benzo(a)pyrene**	**13**		**1400**		**µg/kg**	**SS-74: 0-2 ft BGS (10/30/2018)**	**15/16**	**11**	**1400**	**110**	**C**	**Y**	**ASV**

Table 16

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU11 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU11 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Minimum Qualifier	Maximum Concentration (1, 2)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Semi-Volatiles Organic Compounds (cont.'d)													
205-99-2	**Benzo(b)fluoranthene**	**14 J**		**2000**		**µg/kg**	**SS-74: 0-2 ft BGS (10/30/2018)**	**16/16**	**--**	**2000**	**1100**	**C**	**Y**	**ASV**
191-24-2	Benzo(g,h,i)perylene	8.5 J		940		µg/kg	SS-74: 0-2 ft BGS (10/30/2018)	16/16	--	940	180000 (5)	N	N	BSV
207-08-9	Benzo(k)fluoranthene	7.6		640		µg/kg	SS-74: 0-2 ft BGS (10/30/2018)	15/16	8.1	640	11000	C	N	BSV
92-52-4	Biphenyl (1,1-Biphenyl)	7.4 J		56 J		µg/kg	SS-73: 0.17-2.17 ft BGS (10/30/2018)	4/16	3.8 - 110	56 J	4700	N	N	BSV
111-91-1	bis(2-Chloroethoxy)methane	ND		ND		µg/kg	--	0/16	13 - 220	N/A	19000	N	N	ND
111-44-4	bis(2-Chloroethyl)ether	ND		ND		µg/kg	--	0/16	2.2 - 220	N/A	230	C	N	ND
117-81-7	bis(2-Ethylhexyl)phthalate (DEHP)	23 J		630		µg/kg	SS-25: 0-2 ft BGS (11/1/2017)	3/16	28 - 110	630	39000	C	N	BSV
85-68-7	Butyl benzylphthalate (BBP)	41 J		41 J		µg/kg	SS-70: 0-2 ft BGS (10/30/2018)	1/16	11 - 110	41 J	290000	C	N	BSV
105-60-2	Caprolactam	44 J		44 J		µg/kg	SS-25: 0-2 ft BGS (11/1/2017)	1/16	40 - 720	44 J	3100000	N	N	BSV
86-74-8	**Carbazole**	**25 J**		**120**		**µg/kg**	**SS-74: 0-2 ft BGS (10/30/2018)**	**7/16**	**22 - 68**	**120**	**--**		**Y**	**AD**
218-01-9	Chrysene	13		1300		µg/kg	SS-74: 0-2 ft BGS (10/30/2018)	16/16	--	1300	110000	C	N	BSV
53-70-3	**Dibenz(a,h)anthracene**	**10**		**220**		**µg/kg**	**SS-74: 0-2 ft BGS (10/30/2018)**	**10/16**	**0.71 - 8**	**220**	**110**	**C**	**Y**	**ASV**
132-64-9	Dibenzofuran	11 J		150		µg/kg	SS-73: 0.17-2.17 ft BGS (10/30/2018)	10/16	0.71 - 110	150	7300	N	N	BSV
84-66-2	Diethyl phthalate	21 J		21 J		µg/kg	BH114-18: 3-5 ft BGS (1/11/2018)	1/16	17 - 110	21 J	5100000	N	N	BSV
131-11-3	Dimethyl phthalate	ND		ND		µg/kg	--	0/16	15 - 110	N/A	5100000 (5)	N	N	ND
84-74-2	Di-n-butylphthalate (DBP)	27 J		27 J		µg/kg	SS-72: 0.5-2.25 ft BGS (10/30/2018)	1/16	16 - 110	27 J	630000	N	N	BSV
117-84-0	Di-n-octyl phthalate (DnOP)	ND		ND		µg/kg	--	0/16	8.5 - 110	N/A	63000	N	N	ND
206-44-0	Fluoranthene	16 J		2000		µg/kg	SS-74: 0-2 ft BGS (10/30/2018)	16/16	--	2000	240000	N	N	BSV
86-73-7	Fluorene	3.8 J		85		µg/kg	SS-75: 0.5-2.5 ft BGS (10/30/2018)	11/16	0.57 - 7.4	85	240000	N	N	BSV
118-74-1	Hexachlorobenzene	ND		ND		µg/kg	--	0/16	2.3 - 14	N/A	210	C	N	ND
87-68-3	Hexachlorobutadiene	ND		ND		µg/kg	--	0/16	6 - 110	N/A	1200	C	N	ND
77-47-4	Hexachlorocyclopentadiene	ND		ND		µg/kg	--	0/15	8.7 - 720	N/A	180	N	N	ND
67-72-1	Hexachloroethane	ND		ND		µg/kg	--	0/16	9.6 - 110	N/A	1800	C	N	ND
193-39-5	Indeno(1,2,3-cd)pyrene	8.8		910		µg/kg	SS-74: 0-2 ft BGS (10/30/2018)	15/16	8.6	910	1100	C	N	BSV
78-59-1	Isophorone	ND		ND		µg/kg	--	0/16	13 - 110	N/A	570000	C	N	ND
91-20-3	Naphthalene	5.7 J		400		µg/kg	SS-73: 0.17-2.17 ft BGS (10/30/2018)	13/16	7.2 - 7.4	400	3800	C	N	BSV
98-95-3	Nitrobenzene	ND		ND		µg/kg	--	0/16	2.4 - 220	N/A	5100	C	N	ND
621-64-7	N-Nitrosodi-n-propylamine	ND		ND		µg/kg	--	0/16	6.8 - 110	N/A	78	C	N	ND
86-30-6	N-Nitrosodiphenylamine	ND		ND		µg/kg	--	0/16	13 - 110	N/A	110000	C	N	ND
87-86-5	Pentachlorophenol	ND		ND		µg/kg	--	0/15	9.8 - 330	N/A	1000	C	N	ND
85-01-8	Phenanthrene	11		900		µg/kg	SS-74: 0-2 ft BGS (10/30/2018)	16/16	--	900	180000 (5)	N	N	BSV
108-95-2	Phenol	ND		ND		µg/kg	--	0/16	7.9 - 110	N/A	1900000	N	N	ND
129-00-0	Pyrene	19		1800		µg/kg	SS-74: 0-2 ft BGS (10/30/2018)	16/16	--	1800	180000	N	N	BSV
	Metals													
7429-90-5	**Aluminum**	**1980**		**14000 J**		**mg/kg**	**BH115-18: 3-5 ft BGS (1/11/2018)**	**16/16**	**--**	**14000 J**	**7700**	**N**	**Y**	**ASV**
7440-36-0	Antimony	0.19 J		2.8 J		mg/kg	BH116-18: 11-13 ft BGS (1/11/2018)	13/16	6.5 - 6.7	2.8 J	3.1	N	N	BSV
7440-38-2	**Arsenic**	**3.9**		**45**		**mg/kg**	**BH115-18: 3-5 ft BGS (1/11/2018)**	**16/16**	**--**	**45**	**0.68**	**C**	**Y**	**ASV**
7440-39-3	Barium	35 J		440 J		mg/kg	BH115-18: 3-5 ft BGS (1/11/2018)	16/16	--	440 J	1500	N	N	BSV
7440-41-7	Beryllium	0.12 J		6.5		mg/kg	BH115-18: 3-5 ft BGS (1/11/2018)	16/16	--	6.5	16	N	N	BSV
7440-43-9	**Cadmium**	**0.099 J**		**19**		**mg/kg**	**BH116-18: 11-13 ft BGS (1/11/2018)**	**15/16**	**0.54**	**19**	**7.1**	**N**	**Y**	**ASV**

Table 16

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU11 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU11 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Minimum Qualifier	Maximum Concentration (1, 2)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Metals (cont.'d)													
7440-70-2	Calcium	3400		150000		mg/kg	SS-73: 0.17-2.17 ft BGS (10/30/2018)	16/16	--	150000	--		N	NAT
16065-83-1	Chromium III (trivalent)	3.3		32		mg/kg	BH115-18: 3-5 ft BGS (1/11/2018)	17/17	--	32	12000	N	N	BSV
18540-29-9	**Chromium VI (hexavalent)**	**0.32 J**		**3.7**		**mg/kg**	**TP-13: 8-10 ft BGS (11/1/2017)**	**9/17**	**0.26 - 1.6**	**3.7**	**0.3**	**C**	**Y**	**ASV**
7440-48-4	**Cobalt**	**2.3 J**		**22**		**mg/kg**	**BH115-18: 3-5 ft BGS (1/11/2018)**	**16/16**	**--**	**22**	**2.3**	**N**	**Y**	**ASV**
7440-50-8	**Copper**	**9.4**		**410**		**mg/kg**	**BH116-18: 11-13 ft BGS (1/11/2018)**	**16/16**	**--**	**410**	**310**	**N**	**Y**	**ASV**
57-12-5	Cyanide (total)	0.21 J		0.51 J		mg/kg	TT-12: 10 ft BGS (10/2/2008)	4/16	0.13 - 0.59	0.51 J	2.3	N	N	BSV
7439-89-6	**Iron**	**6020**		**63700**		**mg/kg**	**TT-11: 10 ft BGS (10/2/2008)**	**16/16**	**--**	**63700**	**5500**	**N**	**Y**	**ASV**
7439-92-1	Lead	15.8 J		160		mg/kg	SS-72: 0.5-2.25 ft BGS (10/30/2018)	16/16	--	160	400	C	N	BSV
7439-95-4	Magnesium	820		83000		mg/kg	SS-73: 0.17-2.17 ft BGS (10/30/2018)	16/16	--	83000	--		N	NAT
7439-96-5	**Manganese**	**46**		**734 J**		**mg/kg**	**TT-11: 10 ft BGS (10/2/2008)**	**16/16**	**--**	**734 J**	**180**	**N**	**Y**	**ASV**
7439-97-6	Mercury	0.023 J		0.85		mg/kg	SS-75: 0.5-2.5 ft BGS (10/30/2018)	16/16	--	0.85	1.1	N	N	BSV
7440-02-0	Nickel	6		36		mg/kg	BH115-18: 3-5 ft BGS (1/11/2018)	16/16	--	36	150	N	N	BSV
7440-09-7	Potassium	310		1600		mg/kg	BH115-18: 3-5 ft BGS (1/11/2018)	16/16	--	1600	--		N	NAT
7782-49-2	Selenium	0.17 J		7.3		mg/kg	BH116-18: 11-13 ft BGS (1/11/2018)	11/16	0.93 - 27.7	7.3	39	N	N	BSV
7440-22-4	Silver	0.029 J		0.44		mg/kg	BH116-18: 11-13 ft BGS (1/11/2018)	12/16	1.1	0.44	39	N	N	BSV
7440-23-5	Sodium	78 J		883		mg/kg	TT-12: 5 ft BGS (10/2/2008)	13/16	100 - 543	883	--		N	NAT
7440-28-0	**Thallium**	**0.12 J**		**1.4**		**mg/kg**	**BH115-18: 3-5 ft BGS (1/11/2018)**	**11/16**	**0.095 - 0.17**	**1.4**	**0.078**	**N**	**Y**	**ASV**
7440-62-2	**Vanadium**	**6.4 J**		**72**		**mg/kg**	**BH115-18: 3-5 ft BGS (1/11/2018)**	**16/16**	**--**	**72**	**39**	**N**	**Y**	**ASV**
7440-66-6	Zinc	26.4 J		1200		mg/kg	BH116-18: 11-13 ft BGS (1/11/2018)	16/16	--	1200	2300	N	N	BSV
	Polychlorinated Biphenyls													
12674-11-2	Aroclor-1016 (PCB-1016)	ND		ND		µg/kg	--	0/16	23 - 37	N/A	410	N	N	ND
11104-28-2	Aroclor-1221 (PCB-1221)	ND		ND		µg/kg	--	0/16	25 - 37	N/A	200	C	N	ND
11141-16-5	Aroclor-1232 (PCB-1232)	ND		ND		µg/kg	--	0/16	17 - 37	N/A	170	C	N	ND
53469-21-9	Aroclor-1242 (PCB-1242)	ND		ND		µg/kg	--	0/16	20 - 37	N/A	230	C	N	ND
12672-29-6	Aroclor-1248 (PCB-1248)	ND		ND		µg/kg	--	0/16	18 - 37	N/A	230	C	N	ND
11097-69-1	**Aroclor-1254 (PCB-1254)**	**20 J**		**910**		**µg/kg**	**SS-75: 0.5-2.5 ft BGS (10/30/2018)**	**6/16**	**24 - 37**	**910**	**120**	**C**	**Y**	**ASV**
11096-82-5	Aroclor-1260 (PCB-1260)	23 J		36 J		µg/kg	SS-71: 0-2 ft BGS (10/30/2018)	2/16	19 - 37	36 J	240	C	N	BSV
	Pesticides													
72-54-8	4,4'-DDD	ND		ND		µg/kg	--	0/16	3.6 - 92	N/A	190	C	N	ND
72-55-9	4,4'-DDE	24 J		43 J		µg/kg	TT-11: 10 ft BGS (10/2/2008)	2/16	1.3 - 26	43 J	2000	C	N	BSV
50-29-3	4,4'-DDT	3.1 J		3.1 J		µg/kg	BH115-18: 3-5 ft BGS (1/11/2018)	1/16	1.5 - 92	3.1 J	1900	C	N	BSV
309-00-2	Aldrin	ND		ND		µg/kg	--	0/16	2.6 - 92	N/A	39	C	N	ND
319-84-6	alpha-BHC	ND		ND		µg/kg	--	0/16	1.7 - 92	N/A	86	C	N	ND
5103-71-9	alpha-Chlordane	ND		ND		µg/kg	--	0/16	4.1 - 92	N/A	1700	C	N	ND
319-85-7	beta-BHC	ND		ND		µg/kg	--	0/16	4.2 - 92	N/A	300	C	N	ND
319-86-8	delta-BHC	ND		ND		µg/kg	--	0/16	1.4 - 92	N/A	300	C	N	ND
60-57-1	Dieldrin	ND		ND		µg/kg	--	0/16	0.97 - 92	N/A	34	C	N	ND
959-98-8	Endosulfan I	ND		ND		µg/kg	--	0/16	1.4 - 92	N/A	47000	N	N	ND
33213-65-9	Endosulfan II	ND		ND		µg/kg	--	0/16	1.9 - 92	N/A	47000	N	N	ND
1031-07-8	Endosulfan sulfate	ND		ND		µg/kg	--	0/16	1.3 - 92	N/A	47000	N	N	ND

Table 16

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU11 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU11 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Minimum Qualifier	Maximum Concentration (1, 2)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Pesticides (cont.'d)													
72-20-8	Endrin	ND		ND		µg/kg	--	0/16	1.5 - 92	N/A	1900	N	N	ND
7421-93-4	Endrin aldehyde	5.4 J		5.4 J		µg/kg	BH115-18: 3-5 ft BGS (1/11/2018)	1/16	1.9 - 92	5.4 J	1900	N	N	BSV
53494-70-5	Endrin ketone	ND		ND		µg/kg	--	0/16	1.2 - 92	N/A	1900	N	N	ND
58-89-9	gamma-BHC (lindane)	ND		ND		µg/kg	--	0/16	3.1 - 92	N/A	570	C	N	ND
5103-74-2	gamma-Chlordane	29 J		29 J		µg/kg	TT-11: 5 ft BGS (10/2/2008)	1/16	1.6 - 92	29 J	1700	C	N	BSV
76-44-8	Heptachlor	ND		ND		µg/kg	--	0/16	0.84 - 92	N/A	130	C	N	ND
1024-57-3	Heptachlor epoxide	ND		ND		µg/kg	--	0/16	2.6 - 92	N/A	70	C	N	ND
72-43-5	Methoxychlor	2.7 J		2.7 J		µg/kg	BH114-18: 3-5 ft BGS (1/11/2018)	1/16	1.3 - 180	2.7 J	32000	N	N	BSV
8001-35-2	Toxaphene	ND		ND		µg/kg	--	0/16	40 - 3600	N/A	490	C	N	ND
	Herbicides													
93-72-1	2,4,5-TP (Silvex)	ND		ND		µg/kg	--	0/5	17 - 22	N/A	51000	N	N	ND
94-75-7	2,4-Dichlorophenoxyacetic acid (2,4-D)	ND		ND		µg/kg	--	0/5	61 - 89	N/A	70000	N	N	ND
	Dioxins/Furans													
39001-02-0	1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	ND		ND		pg/g	--	0/1	9.4	N/A	--			Refer to Total TEQ
3268-87-9	1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	150		150		pg/g	TP-13: 8-10 ft BGS (11/1/2017)	1/1	--	150	--			Refer to Total TEQ
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	7.1		7.1		pg/g	TP-13: 8-10 ft BGS (11/1/2017)	1/1	--	7.1	--			Refer to Total TEQ
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	27		27		pg/g	TP-13: 8-10 ft BGS (11/1/2017)	1/1	--	27	--			Refer to Total TEQ
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	ND		ND		pg/g	--	0/1	0.23	N/A	--			Refer to Total TEQ
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	1.2 J		1.2 J		pg/g	TP-13: 8-10 ft BGS (11/1/2017)	1/1	--	1.2 J	--			Refer to Total TEQ
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	0.51 J		0.51 J		pg/g	TP-13: 8-10 ft BGS (11/1/2017)	1/1	--	0.51 J	--			Refer to Total TEQ
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	0.85 J		0.85 J		pg/g	TP-13: 8-10 ft BGS (11/1/2017)	1/1	--	0.85 J	--			Refer to Total TEQ
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	4.5 J		4.5 J		pg/g	TP-13: 8-10 ft BGS (11/1/2017)	1/1	--	4.5 J	--			Refer to Total TEQ
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	ND		ND		pg/g	--	0/1	0.15	N/A	--			Refer to Total TEQ
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	2.3 J		2.3 J		pg/g	TP-13: 8-10 ft BGS (11/1/2017)	1/1	--	2.3 J	--			Refer to Total TEQ
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	0.27 J		0.27 J		pg/g	TP-13: 8-10 ft BGS (11/1/2017)	1/1	--	0.27 J	--			Refer to Total TEQ
40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	0.66 J		0.66 J		pg/g	TP-13: 8-10 ft BGS (11/1/2017)	1/1	--	0.66 J	--			Refer to Total TEQ
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	0.63 J		0.63 J		pg/g	TP-13: 8-10 ft BGS (11/1/2017)	1/1	--	0.63 J	--			Refer to Total TEQ
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	0.39 J		0.39 J		pg/g	TP-13: 8-10 ft BGS (11/1/2017)	1/1	--	0.39 J	--			Refer to Total TEQ
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran (TCDF)	1.1		1.1		pg/g	TP-13: 8-10 ft BGS (11/1/2017)	1/1	--	1.1	--			Refer to Total TEQ
1746-01-6	2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	0.17 J		0.17 J		pg/g	TP-13: 8-10 ft BGS (11/1/2017)	1/1	--	0.17 J	--			Refer to Total TEQ
38998-75-3	Total heptachlorodibenzofuran (HpCDF)	18 J		18 J		pg/g	TP-13: 8-10 ft BGS (11/1/2017)	1/1	--	18 J	--			Refer to Total TEQ
37871-00-4	Total heptachlorodibenzo-p-dioxin (HpCDD)	51 J		51 J		pg/g	TP-13: 8-10 ft BGS (11/1/2017)	1/1	--	51 J	--			Refer to Total TEQ
55684-94-1	Total hexachlorodibenzofuran (HxCDF)	14 J		14 J		pg/g	TP-13: 8-10 ft BGS (11/1/2017)	1/1	--	14 J	--			Refer to Total TEQ
34465-46-8	Total hexachlorodibenzo-p-dioxin (HxCDD)	32 J		32 J		pg/g	TP-13: 8-10 ft BGS (11/1/2017)	1/1	--	32 J	--			Refer to Total TEQ
30402-15-4	Total pentachlorodibenzofuran (PeCDF)	12 J		12 J		pg/g	TP-13: 8-10 ft BGS (11/1/2017)	1/1	--	12 J	--			Refer to Total TEQ
36088-22-9	Total pentachlorodibenzo-p-dioxin (PeCDD)	31 J		31 J		pg/g	TP-13: 8-10 ft BGS (11/1/2017)	1/1	--	31 J	--			Refer to Total TEQ
55722-27-5	Total tetrachlorodibenzofuran (TCDF)	19 J		19 J		pg/g	TP-13: 8-10 ft BGS (11/1/2017)	1/1	--	19 J	--			Refer to Total TEQ
41903-57-5	Total tetrachlorodibenzo-p-dioxin (TCDD)	2.6 J		2.6 J		pg/g	TP-13: 8-10 ft BGS (11/1/2017)	1/1	--	2.6 J	--			Refer to Total TEQ
TOTALTEQND0	Total TEQ (DL @ 0)	2.4501		2.4501		pg/g	TP-13: 8-10 ft BGS (11/1/2017)	1/1	--	2.4501	4800	C	N	BSV
TOTALTEQND0.5	Total TEQ (DL @ Half)	2.458783		2.458783		pg/g	TP-13: 8-10 ft BGS (11/1/2017)	1/1	--	2.458783	4800	C	N	BSV

Table 16

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU11 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU11 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Minimum Qualifier	Maximum Concentration (1, 2)	Maximum Qualifier	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)	COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Asbestos												
1332-21-4	Asbestos	ND		ND		%	--	0/4	0.25 - 1	N/A	--	N	ND
12001-29-5	**Chrysotile asbestos**	**2**		**2**		**%**	**BH116-18: 11-13 ft BGS (1/11/2018)**	**1/1**	**--**	**2**	**--**	**Y**	**AD**

Notes:

(1) Minimum/maximum detected concentration.
(2) Based on data collected from sampling locations: SS-25, SS-70, SS-71, SS-72, SS-73, SS-74, SS-75, SS-76, SS-77, SS-165-AS, SS-166-AS, BH114-18, BH115-18, BH116-18, BH175-17, TP-13, TT-11, TT-12.
(3) Regional Screening Level (RSL) Summary Table (TR = 1E-06, HI = 0.1) , Residential Soil, November 2018.
(4) Rationale Codes

Selection Reason: Maximum detected above Screening Value (ASV)
Analyte Detected and no Screening Value available (AD)
Deletion Reason: Maximum detected below Screening Value (BSV)
Naturally Occurring (NAT)

(5) No screening value available, surrogate screening value implemented as follows:

Chemical		Surrogate
1,3-dichlorobenzene	-	1,2-dichlorobenzene
methyl cyclohexane	-	cyclohexane
3&4-methylphenol	-	3-methylphenol
acenaphthylene	-	acenaphthene
benzo(g,h,i)perylene	-	pyrene
phenanthrene	-	pyrene
dimethylphthalate	-	diethylphthalate

Defintions:

-- = Not Available
N = Noncarcinogen
C = Carcinogen
Y = Yes
N = No
J - Estimated concentration.

Table 17

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU12 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU12 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Volatile Organic Compounds											
71-55-6	1,1,1-Trichloroethane	ND	ND	µg/kg	--	0/8	0.68 - 33	N/A	810000	N	N	ND
79-34-5	1,1,2,2-Tetrachloroethane	ND	ND	µg/kg	--	0/7	1.2 - 33	N/A	600	C	N	ND
79-00-5	1,1,2-Trichloroethane	ND	ND	µg/kg	--	0/8	0.93 - 30	N/A	150	N	N	ND
75-34-3	1,1-Dichloroethane	1.3 J	1.3 J	µg/kg	SS-62: 0.17-2.17 ft BGS (10/30/2018)	1/8	0.57 - 21	1.3 J	3.6	C	N	BSV
75-35-4	1,1-Dichloroethene	ND	ND	µg/kg	--	0/8	0.74 - 35	N/A	23000	N	N	ND
120-82-1	1,2,4-Trichlorobenzene	ND	ND	µg/kg	--	0/7	0.47 - 310	N/A	5800	N	N	ND
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	ND	µg/kg	--	0/7	3 - 210	N/A	5.3	C	N	ND
106-93-4	1,2-Dibromoethane (Ethylene dibromide)	ND	ND	µg/kg	--	0/8	0.63 - 190	N/A	36	C	N	ND
95-50-1	1,2-Dichlorobenzene	ND	ND	µg/kg	--	0/7	0.92 - 49	N/A	180000	N	N	ND
107-06-2	1,2-Dichloroethane	ND	ND	µg/kg	--	0/8	0.64 - 28	N/A	460	C	N	ND
78-87-5	1,2-Dichloropropane	ND	ND	µg/kg	--	0/8	0.7 - 19	N/A	1600	N	N	ND
541-73-1	1,3-Dichlorobenzene	ND	ND	µg/kg	--	0/7	0.67 - 49	N/A	180000 (5)	N	N	ND
106-46-7	1,4-Dichlorobenzene	ND	ND	µg/kg	--	0/7	0.73 - 40	N/A	2600	C	N	ND
78-93-3	2-Butanone (Methyl ethyl ketone) (MEK)	3.9 J	380 J	µg/kg	SS-65: 0.25-2.25 ft BGS (10/30/2018)	4/8	2.9 - 200	380 J	2700000	N	N	BSV
591-78-6	2-Hexanone	ND	ND	µg/kg	--	0/8	3.4 - 620	N/A	20000	N	N	ND
108-10-1	4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ND	ND	µg/kg	--	0/8	3.1 - 560	N/A	3300000	N	N	ND
67-64-1	Acetone	24	770 J	µg/kg	SS-65: 0.25-2.25 ft BGS (10/30/2018)	4/8	17 - 38	770 J	6100000	N	N	BSV
71-43-2	Benzene	ND	ND	µg/kg	--	0/8	0.58 - 19	N/A	1200	C	N	ND
75-27-4	Bromodichloromethane	ND	ND	µg/kg	--	0/8	0.56 - 66	N/A	290	C	N	ND
75-25-2	Bromoform	ND	ND	µg/kg	--	0/8	2 - 250	N/A	19000	C	N	ND
74-83-9	Bromomethane (Methyl bromide)	ND	ND	µg/kg	--	0/7	0.81 - 390	N/A	680	N	N	ND
75-15-0	Carbon disulfide	ND	ND	µg/kg	--	0/7	0.96 - 250	N/A	77000	N	N	ND
56-23-5	Carbon tetrachloride	ND	ND	µg/kg	--	0/8	2.7 - 42	N/A	650	C	N	ND
108-90-7	Chlorobenzene	ND	ND	µg/kg	--	0/8	0.76 - 82	N/A	28000	N	N	ND
75-00-3	Chloroethane	ND	ND	µg/kg	--	0/8	1 - 350	N/A	1400000	N	N	ND
67-66-3	Chloroform (Trichloromethane)	ND	ND	µg/kg	--	0/8	0.65 - 21	N/A	320	C	N	ND
74-87-3	Chloromethane (Methyl chloride)	ND	ND	µg/kg	--	0/8	0.86 - 150	N/A	11000	N	N	ND
156-59-2	cis-1,2-Dichloroethene	1.2 J	28 J	µg/kg	SS-64: 0-2 ft BGS (10/30/2018)	2/8	0.54 - 21	28 J	16000	N	N	BSV
10061-01-5	cis-1,3-Dichloropropene	ND	ND	µg/kg	--	0/8	1.2 - 87	N/A	1800	C	N	ND
110-82-7	Cyclohexane	1400 J	1400 J	µg/kg	SS-65: 0.25-2.25 ft BGS (10/30/2018)	1/8	1.1 - 200	1400 J	650000	N	N	BSV
124-48-1	Dibromochloromethane	ND	ND	µg/kg	--	0/8	2.3 - 270	N/A	8300	C	N	ND
75-71-8	Dichlorodifluoromethane (CFC-12)	ND	ND	µg/kg	--	0/7	0.78 - 1.7	N/A	8700	N	N	ND
100-41-4	Ethylbenzene	65 J	65 J	µg/kg	SS-64: 0-2 ft BGS (10/30/2018)	1/8	0.86 - 190	65 J	5800	C	N	BSV
98-82-8	Isopropyl benzene	150 J	150 J	µg/kg	SS-65: 0.25-2.25 ft BGS (10/30/2018)	1/8	0.69 - 48	150 J	190000	N	N	BSV
79-20-9	Methyl acetate	ND	ND	µg/kg	--	0/8	2.8 - 1200	N/A	7800000	N	N	ND
108-87-2	Methyl cyclohexane	350 J	5900 J	µg/kg	SS-65: 0.25-2.25 ft BGS (10/30/2018)	2/8	1 - 2.2	5900 J	650000 (5)	N	N	BSV
1634-04-4	Methyl tert butyl ether (MTBE)	ND	ND	µg/kg	--	0/8	0.68 - 87	N/A	47000	C	N	ND
75-09-2	Methylene chloride	980 J	980 J	µg/kg	SS-64: 0-2 ft BGS (10/30/2018)	1/8	9.9 - 900	980 J	35000	N	N	BSV
100-42-5	Styrene	ND	ND	µg/kg	--	0/8	0.95 - 28	N/A	600000	N	N	ND
127-18-4	Tetrachloroethene	58 J	58 J	µg/kg	SS-64: 0-2 ft BGS (10/30/2018)	1/8	0.6 - 35	58 J	8100	N	N	BSV
108-88-3	Toluene	320 J	630 J	µg/kg	SS-65: 0.25-2.25 ft BGS (10/30/2018)	2/8	0.64 - 1.4	630 J	490000	N	N	BSV
156-60-5	trans-1,2-Dichloroethene	ND	ND	µg/kg	--	0/8	0.38 - 35	N/A	160000	N	N	ND

Table 17

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU12 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU12 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Volatile Organic Compounds (cont.'d)											
10061-02-6	trans-1,3-Dichloropropene	ND	ND	µg/kg	--	0/8	0.85 - 250	N/A	1800	C	N	ND
79-01-6	Trichloroethene	2.7 J	81 J	µg/kg	SS-64: 0-2 ft BGS (10/30/2018)	4/8	0.52 - 30	81 J	410	N	N	BSV
75-69-4	Trichlorofluoromethane (CFC-11)	ND	ND	µg/kg	--	0/8	0.89 - 110	N/A	2300000	N	N	ND
76-13-1	Trifluorotrichloroethane (CFC-113)	ND	ND	µg/kg	--	0/8	1.1 - 160	N/A	670000	N	N	ND
75-01-4	Vinyl chloride	ND	ND	µg/kg	--	0/8	0.69 - 23	N/A	59	C	N	ND
1330-20-7	Xylenes (total)	510 J	2300 J	µg/kg	SS-65: 0.25-2.25 ft BGS (10/30/2018)	2/8	1.3 - 2.9	2300 J	58000	N	N	BSV
	Semi-Volatiles Organic Compounds											
108-60-1	2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether	ND	ND	µg/kg	--	0/8	11 - 57	N/A	310000	N	N	ND
95-95-4	2,4,5-Trichlorophenol	ND	ND	µg/kg	--	0/8	74 - 390	N/A	630000	N	N	ND
88-06-2	2,4,6-Trichlorophenol	ND	ND	µg/kg	--	0/8	69 - 360	N/A	6300	N	N	ND
120-83-2	2,4-Dichlorophenol	ND	ND	µg/kg	--	0/8	47 - 250	N/A	19000	N	N	ND
105-67-9	2,4-Dimethylphenol	ND	ND	µg/kg	--	0/8	43 - 230	N/A	130000	N	N	ND
51-28-5	2,4-Dinitrophenol	ND	ND	µg/kg	--	0/8	150 - 810	N/A	13000	N	N	ND
121-14-2	2,4-Dinitrotoluene	ND	ND	µg/kg	--	0/8	67 - 350	N/A	1700	C	N	ND
606-20-2	2,6-Dinitrotoluene	ND	ND	µg/kg	--	0/8	60 - 320	N/A	360	C	N	ND
91-58-7	2-Chloronaphthalene	ND	ND	µg/kg	--	0/8	15 - 80	N/A	480000	N	N	ND
95-57-8	2-Chlorophenol	ND	ND	µg/kg	--	0/8	11 - 57	N/A	39000	N	N	ND
91-57-6	2-Methylnaphthalene	15 J	3200 J	µg/kg	SS-65: 0.25-2.25 ft BGS (10/30/2018)	8/8	--	3200 J	240000	N	N	BSV
95-48-7	2-Methylphenol	ND	ND	µg/kg	--	0/8	33 - 180	N/A	320000	N	N	ND
88-74-4	2-Nitroaniline	ND	ND	µg/kg	--	0/8	43 - 230	N/A	63000	n	N	ND
88-75-5	2-Nitrophenol	ND	ND	µg/kg	--	0/8	14 - 74	N/A	--		N	ND
3/4-Cresol	3&4-Methylphenol	420 J	420 J	µg/kg	SS-69: 0.33-2.33 ft BGS (10/30/2018)	1/8	31 - 85	420 J	320000 (5)	N	N	BSV
91-94-1	3,3'-Dichlorobenzidine	ND	ND	µg/kg	--	0/7	47 - 240	N/A	1200	c	N	ND
99-09-2	3-Nitroaniline	ND	ND	µg/kg	--	0/8	53 - 280	N/A	--		N	ND
534-52-1	4,6-Dinitro-2-methylphenol	ND	ND	µg/kg	--	0/8	86 - 450	N/A	510	N	N	ND
101-55-3	4-Bromophenyl phenyl ether	ND	ND	µg/kg	--	0/8	15 - 80	N/A	--		N	ND
59-50-7	4-Chloro-3-methylphenol	ND	ND	µg/kg	--	0/8	48 - 260	N/A	630000	N	N	ND
106-47-8	4-Chloroaniline	ND	ND	µg/kg	--	0/8	32 - 170	N/A	2700	C	N	ND
7005-72-3	4-Chlorophenyl phenyl ether	ND	ND	µg/kg	--	0/8	15 - 80	N/A	--		N	ND
100-01-6	4-Nitroaniline	ND	ND	µg/kg	--	0/8	64 - 340	N/A	25000	N	N	ND
100-02-7	4-Nitrophenol	ND	ND	µg/kg	--	0/8	100 - 530	N/A	--		N	ND
83-32-9	Acenaphthene	11 J	190	µg/kg	SS-69: 0.33-2.33 ft BGS (10/30/2018)	4/8	3.1 - 3.4	190	360000	N	N	BSV
208-96-8	Acenaphthylene	5.0 J	110	µg/kg	SS-62: 0.17-2.17 ft BGS (10/30/2018)	4/8	4.3 - 23	110	360000 (5)	N	N	BSV
98-86-2	Acetophenone	22 J	210 J	µg/kg	SS-69: 0.33-2.33 ft BGS (10/30/2018)	2/8	12 - 32	210 J	780000	N	N	BSV
120-12-7	Anthracene	9.3 J	200 J	µg/kg	SS-65: 0.25-2.25 ft BGS (10/30/2018)	6/8	2.7 - 2.9	200 J	1800000	N	N	BSV
1912-24-9	Atrazine	ND	ND	µg/kg	--	0/8	39 - 200	N/A	2400	C	N	ND
100-52-7	Benzaldehyde	35 J	330 J	µg/kg	SS-65: 0.25-2.25 ft BGS (10/30/2018)	2/8	25 - 130	330 J	170000	N	N	BSV
56-55-3	Benzo(a)anthracene	5.3 J	610	µg/kg	SS-62: 0.17-2.17 ft BGS (10/30/2018)	8/8	--	610	1100	C	N	BSV
50-32-8	**Benzo(a)pyrene**	**27**	**750**	**µg/kg**	**SS-62: 0.17-2.17 ft BGS (10/30/2018)**	**6/8**	**11 - 53**	**750**	**110**	**C**	**Y**	**ASV**
205-99-2	Benzo(b)fluoranthene	9.4 J	1100	µg/kg	SS-62: 0.17-2.17 ft BGS (10/30/2018)	8/8	--	1100	1100	C	N	BSV

Table 17

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU12 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU12 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Semi-Volatiles Organic Compounds (cont.'d)											
191-24-2	Benzo(g,h,i)perylene	9.4 J	510	µg/kg	SS-62: 0.17-2.17 ft BGS (10/30/2018)	7/8	40	510	180000 (5)	N	N	BSV
207-08-9	Benzo(k)fluoranthene	9.5 J	390	µg/kg	SS-62: 0.17-2.17 ft BGS (10/30/2018)	5/8	7.7 - 39	390	11000	C	N	BSV
92-52-4	Biphenyl (1,1-Biphenyl)	34 J	250 J	µg/kg	SS-69: 0.33-2.33 ft BGS (10/30/2018)	3/8	19 - 20	250 J	4700	N	N	BSV
111-91-1	bis(2-Chloroethoxy)methane	ND	ND	µg/kg	--	0/8	13 - 68	N/A	19000	N	N	ND
111-44-4	bis(2-Chloroethyl)ether	ND	ND	µg/kg	--	0/8	13 - 68	N/A	230	C	N	ND
117-81-7	bis(2-Ethylhexyl)phthalate (DEHP)	67 J	450	µg/kg	SS-69: 0.33-2.33 ft BGS (10/30/2018)	4/8	57 - 150	450	39000	C	N	BSV
85-68-7	Butyl benzylphthalate (BBP)	ND	ND	µg/kg	--	0/8	24 - 120	N/A	290000	C	N	ND
105-60-2	Caprolactam	ND	ND	µg/kg	--	0/8	80 - 430	N/A	3100000	N	N	ND
86-74-8	**Carbazole**	**32 J**	**140 J**	**µg/kg**	**SS-65: 0.25-2.25 ft BGS (10/30/2018)**	**3/8**	**21 - 110**	**140 J**	**--**		**Y**	**AD**
218-01-9	Chrysene	10 J	730	µg/kg	SS-62: 0.17-2.17 ft BGS (10/30/2018)	8/8	--	730	110000	C	N	BSV
53-70-3	**Dibenz(a,h)anthracene**	**13 J**	**130**	**µg/kg**	**SS-62: 0.17-2.17 ft BGS (10/30/2018)**	**5/8**	**7.7 - 39**	**130**	**110**	**C**	**Y**	**ASV**
132-64-9	Dibenzofuran	54 J	990 J	µg/kg	SS-65: 0.25-2.25 ft BGS (10/30/2018)	4/8	14 - 16	990 J	7300	N	N	BSV
84-66-2	Diethyl phthalate	ND	ND	µg/kg	--	0/8	33 - 180	N/A	5100000	N	N	ND
131-11-3	Dimethyl phthalate	ND	ND	µg/kg	--	0/8	15 - 80	N/A	5100000 (5)	N	N	ND
84-74-2	Di-n-butylphthalate (DBP)	140 J	140 J	µg/kg	SS-69: 0.33-2.33 ft BGS (10/30/2018)	1/8	24 - 64	140 J	630000	N	N	BSV
117-84-0	Di-n-octyl phthalate (DnOP)	ND	ND	µg/kg	--	0/8	30 - 160	N/A	63000	N	N	ND
206-44-0	Fluoranthene	5.6 J	960	µg/kg	SS-62: 0.17-2.17 ft BGS (10/30/2018)	8/8	--	960	240000	N	N	BSV
86-73-7	Fluorene	14 J	330	µg/kg	SS-69: 0.33-2.33 ft BGS (10/30/2018)	4/8	3 - 3.3	330	240000	N	N	BSV
118-74-1	Hexachlorobenzene	ND	ND	µg/kg	--	0/8	3.1 - 16	N/A	210	C	N	ND
87-68-3	Hexachlorobutadiene	ND	ND	µg/kg	--	0/8	13 - 68	N/A	1200	C	N	ND
77-47-4	Hexachlorocyclopentadiene	ND	ND	µg/kg	--	0/7	67 - 350	N/A	180	N	N	ND
67-72-1	Hexachloroethane	ND	ND	µg/kg	--	0/8	9.7 - 51	N/A	1800	C	N	ND
193-39-5	Indeno(1,2,3-cd)pyrene	17	470	µg/kg	SS-62: 0.17-2.17 ft BGS (10/30/2018)	6/8	8.8 - 42	470	1100	C	N	BSV
78-59-1	Isophorone	ND	ND	µg/kg	--	0/8	13 - 68	N/A	570000	C	N	ND
91-20-3	Naphthalene	6.1 J	1500 J	µg/kg	SS-65: 0.25-2.25 ft BGS (10/30/2018)	8/8	--	1500 J	3800	C	N	BSV
98-95-3	Nitrobenzene	ND	ND	µg/kg	--	0/8	14 - 74	N/A	5100	C	N	ND
621-64-7	N-Nitrosodi-n-propylamine	ND	ND	µg/kg	--	0/8	12 - 62	N/A	78	C	N	ND
86-30-6	N-Nitrosodiphenylamine	ND	ND	µg/kg	--	0/8	13 - 68	N/A	110000	C	N	ND
87-86-5	Pentachlorophenol	ND	ND	µg/kg	--	0/8	62 - 330	N/A	1000	C	N	ND
85-01-8	Phenanthrene	28	2300 J	µg/kg	SS-65: 0.25-2.25 ft BGS (10/30/2018)	8/8	--	2300 J	180000 (5)	N	N	BSV
108-95-2	Phenol	87 J	87 J	µg/kg	SS-69: 0.33-2.33 ft BGS (10/30/2018)	1/8	8.6 - 23	87 J	1900000	N	N	BSV
129-00-0	Pyrene	7.0 J	1000	µg/kg	SS-62: 0.17-2.17 ft BGS (10/30/2018)	8/8	--	1000	180000	N	N	BSV
	Metals											
7429-90-5	**Aluminum**	**840**	**7900**	**mg/kg**	**SS-67: 0.17-2.17 ft BGS (10/30/2018)**	**8/8**	**--**	**7900**	**7700**	**N**	**Y**	**ASV**
7440-36-0	Antimony	0.12 J	1.7 J	mg/kg	SS-65: 0.25-2.25 ft BGS (10/30/2018)	8/8	--	1.7 J	3.1	N	N	BSV
7440-38-2	**Arsenic**	**1.7**	**46 J**	**mg/kg**	**SS-65: 0.25-2.25 ft BGS (10/30/2018)**	**8/8**	**--**	**46 J**	**0.68**	**C**	**Y**	**ASV**
7440-39-3	Barium	14	560 J	mg/kg	SS-65: 0.25-2.25 ft BGS (10/30/2018)	8/8	--	560 J	1500	N	N	BSV
7440-41-7	Beryllium	0.19	1.5 J	mg/kg	SS-65: 0.25-2.25 ft BGS (10/30/2018)	7/8	0.087	1.5 J	16	N	N	BSV
7440-43-9	Cadmium	0.2	0.4	mg/kg	SS-67: 0.17-2.17 ft BGS (10/30/2018)	6/8	0.09 - 0.098	0.4	7.1	N	N	BSV
7440-70-2	Calcium	740	130000	mg/kg	SS-66: 0.17-2.17 ft BGS (10/30/2018)	8/8	--	130000	--		N	NAT
16065-83-1	Chromium III (trivalent)	7	39	mg/kg	SS-63: 0.17-2.17 ft BGS (10/30/2018)	8/8	--	39	12000	N	N	BSV

Table 17

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU12 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU12 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Metals (cont.'d)											
18540-29-9	Chromium VI (hexavalent)	ND	ND	mg/kg	--	0/8	0.26 - 0.35	N/A	0.3	C	N	ND
7440-48-4	**Cobalt**	**0.76**	**7.1**	**mg/kg**	**SS-67: 0.17-2.17 ft BGS (10/30/2018)**	**8/8**	**--**	**7.1**	**2.3**	**N**	**Y**	**ASV**
7440-50-8	Copper	11	79	mg/kg	SS-67: 0.17-2.17 ft BGS (10/30/2018)	8/8	--	79	310	N	N	BSV
57-12-5	Cyanide (total)	0.31 J	1.4	mg/kg	SS-64: 0-2 ft BGS (10/30/2018)	2/8	0.21 - 0.25	1.4	2.3	N	N	BSV
7439-89-6	**Iron**	**4400**	**12000**	**mg/kg**	**SS-67: 0.17-2.17 ft BGS (10/30/2018)**	**8/8**	**--**	**12000**	**5500**	**N**	**Y**	**ASV**
7439-92-1	Lead	8.0 J	110	mg/kg	SS-62: 0.17-2.17 ft BGS (10/30/2018)	8/8	--	110	400	C	N	BSV
7439-92-1	Lead - coarse fraction	80	80	mg/kg	SS-66: 0.17-2.17 ft BGS (10/30/2018)	1/1	--	80	400	C	N	BSV
7439-92-1	Lead - fine fraction	200	200	mg/kg	SS-66: 0.17-2.17 ft BGS (10/30/2018)	1/1	--	200	400	C	N	BSV
7439-92-1	Lead - total (calculated by fine/coarse fraction)	92	92	mg/kg	SS-66: 0.17-2.17 ft BGS (10/30/2018)	1/1	--	92	400	C	N	BSV
7439-95-4	Magnesium	330 J	55000	mg/kg	SS-66: 0.17-2.17 ft BGS (10/30/2018)	8/8	--	55000	--		N	NAT
7439-96-5	**Manganese**	**15**	**410**	**mg/kg**	**SS-68: 0.17-2.17 ft BGS (10/30/2018)**	**8/8**	**--**	**410**	**180**	**N**	**Y**	**ASV**
7439-97-6	Mercury	0.018 J	0.41	mg/kg	SS-62: 0.17-2.17 ft BGS (10/30/2018)	5/8	0.022 - 0.023	0.41	1.1	N	N	BSV
7440-02-0	Nickel	8.6	22	mg/kg	SS-64: 0-2 ft BGS (10/30/2018)	8/8	--	22	150	N	N	BSV
7440-09-7	Potassium	170 J	880	mg/kg	SS-67: 0.17-2.17 ft BGS (10/30/2018)	7/8	51	880	--		N	NAT
7782-49-2	Selenium	0.16 J	4.8 J	mg/kg	SS-65: 0.25-2.25 ft BGS (10/30/2018)	7/8	0.11	4.8 J	39	N	N	BSV
7440-22-4	Silver	0.021 J	0.15 J	mg/kg	SS-67: 0.17-2.17 ft BGS (10/30/2018)	8/8	--	0.15 J	39	N	N	BSV
7440-23-5	Sodium	85 J	480	mg/kg	SS-67: 0.17-2.17 ft BGS (10/30/2018)	6/8	47 - 53	480	--		N	NAT
7440-28-0	**Thallium**	**0.14 J**	**0.7**	**mg/kg**	**SS-65: 0.25-2.25 ft BGS (10/30/2018)**	**5/8**	**0.044 - 0.086**	**0.7**	**0.078**	**N**	**Y**	**ASV**
7440-62-2	**Vanadium**	**1.6**	**49 J**	**mg/kg**	**SS-65: 0.25-2.25 ft BGS (10/30/2018)**	**8/8**	**--**	**49 J**	**39**	**N**	**Y**	**ASV**
7440-66-6	Zinc	15 J	150 J	mg/kg	SS-64: 0-2 ft BGS (10/30/2018)	8/8	--	150 J	2300	N	N	BSV
	Polychlorinated Biphenyls											
12674-11-2	Aroclor-1016 (PCB-1016)	ND	ND	µg/kg	--	0/8	24 - 32	N/A	410	N	N	ND
11104-28-2	Aroclor-1221 (PCB-1221)	ND	ND	µg/kg	--	0/8	26 - 35	N/A	200	C	N	ND
11141-16-5	Aroclor-1232 (PCB-1232)	ND	ND	µg/kg	--	0/8	25 - 34	N/A	170	C	N	ND
53469-21-9	Aroclor-1242 (PCB-1242)	ND	ND	µg/kg	--	0/8	20 - 28	N/A	230	C	N	ND
12672-29-6	Aroclor-1248 (PCB-1248)	ND	ND	µg/kg	--	0/8	26 - 35	N/A	230	C	N	ND
11097-69-1	**Aroclor-1254 (PCB-1254)**	**210**	**210**	**µg/kg**	**SS-62: 0.17-2.17 ft BGS (10/30/2018)**	**1/8**	**25 - 34**	**210**	**120**	**C**	**Y**	**ASV**
11096-82-5	Aroclor-1260 (PCB-1260)	ND	ND	µg/kg	--	0/8	24 - 32	N/A	240	C	N	ND
	Pesticides											
72-54-8	4,4'-DDD	ND	ND	µg/kg	--	0/8	1.6 - 22	N/A	190	C	N	ND
72-55-9	4,4'-DDE	ND	ND	µg/kg	--	0/8	1.6 - 22	N/A	2000	C	N	ND
50-29-3	4,4'-DDT	ND	ND	µg/kg	--	0/8	1.2 - 16	N/A	1900	C	N	ND
309-00-2	Aldrin	ND	ND	µg/kg	--	0/8	0.82 - 11	N/A	39	C	N	ND
319-84-6	alpha-BHC	10	10	µg/kg	SS-68: 0.17-2.17 ft BGS (10/30/2018)	1/8	0.97 - 13	10	86	C	N	BSV
5103-71-9	alpha-Chlordane	ND	ND	µg/kg	--	0/8	1.6 - 22	N/A	1700	C	N	ND
319-85-7	beta-BHC	8.1 NJ	20 NJ	µg/kg	SS-65: 0.25-2.25 ft BGS (10/30/2018)	2/8	1.8 - 25	20 NJ	300	C	N	BSV
319-86-8	delta-BHC	ND	ND	µg/kg	--	0/8	1.8 - 25	N/A	300	C	N	ND
60-57-1	Dieldrin	ND	ND	µg/kg	--	0/8	1.2 - 16	N/A	34	C	N	ND

Table 17

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU12 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU12 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Pesticides (cont.'d)											
959-98-8	Endosulfan I	ND	ND	µg/kg	--	0/8	1.3 - 18	N/A	47000	N	N	ND
33213-65-9	Endosulfan II	ND	ND	µg/kg	--	0/8	1.6 - 22	N/A	47000	N	N	ND
1031-07-8	Endosulfan sulfate	ND	ND	µg/kg	--	0/8	1.4 - 19	N/A	47000	N	N	ND
72-20-8	Endrin	ND	ND	µg/kg	--	0/8	2 - 28	N/A	1900	N	N	ND
7421-93-4	Endrin aldehyde	ND	ND	µg/kg	--	0/8	1.4 - 19	N/A	1900	N	N	ND
53494-70-5	Endrin ketone	ND	ND	µg/kg	--	0/8	0.95 - 13	N/A	1900	N	N	ND
58-89-9	gamma-BHC (lindane)	ND	ND	µg/kg	--	0/8	1.9 - 26	N/A	570	C	N	ND
5103-74-2	gamma-Chlordane	ND	ND	µg/kg	--	0/8	1.3 - 18	N/A	1700	C	N	ND
76-44-8	Heptachlor	ND	ND	µg/kg	--	0/8	1.7 - 23	N/A	130	C	N	ND
1024-57-3	Heptachlor epoxide	ND	ND	µg/kg	--	0/8	1.5 - 21	N/A	70	C	N	ND
72-43-5	Methoxychlor	ND	ND	µg/kg	--	0/8	7 - 96	N/A	32000	N	N	ND
8001-35-2	Toxaphene	ND	ND	µg/kg	--	0/8	27 - 360	N/A	490	C	N	ND
	Herbicides											
93-76-5	2,4,5-T	ND	ND	µg/kg	--	0/1	16	N/A	63000	N	N	ND
93-72-1	2,4,5-TP (Silvex)	ND	ND	µg/kg	--	0/1	18	N/A	51000	N	N	ND
94-75-7	2,4-Dichlorophenoxyacetic acid (2,4-D)	ND	ND	µg/kg	--	0/1	62	N/A	70000	N	N	ND
	Asbestos											
1332-21-4	Asbestos	ND	ND	%	--	0/1	0.25	N/A	--		N	ND

Notes:

(1) Minimum/maximum detected concentration.
(2) Based on data collected from sampling locations: SS-62, SS-63, SS-64, SS-65, SS-66, SS-67, SS-68, SS-69, SS-89, SS-167-AS.
(3) Regional Screening Level (RSL) Summary Table (TR = 1E-06, HI = 0.1) , Residential Soil, November 2018.
(4) Rationale Codes
Selection Reason: Maximum detected above Screening Value (ASV)
Analyte Detected and no Screening Value available (AD)
Deletion Reason: Maximum detected below Screening Value (BSV)
Naturally Occurring (NAT)
(5) No screening value available, surrogate screening value implemented as follows:

Chemical		Surrogate
1,3-dichlorobenzene	-	1,2-dichlorobenzene
methyl cyclohexane	-	cyclohexane
3&4-methylphenol	-	3-methylphenol
acenaphthylene	-	acenaphthene
benzo(g,h,i)perylene	-	pyrene
phenanthrene	-	pyrene
dimethylphthalate	-	diethylphthalate

Defintions:

-- = Not Available
N = Noncarcinogen
C = Carcinogen
Y = Yes
N = No
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.

Table 18

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU12 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU12 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Volatile Organic Compounds											
71-55-6	1,1,1-Trichloroethane	ND	ND	µg/kg	--	0/16	0.21 - 33	N/A	810000	N	N	ND
79-34-5	1,1,2,2-Tetrachloroethane	ND	ND	µg/kg	--	0/13	0.23 - 33	N/A	600	C	N	ND
79-00-5	1,1,2-Trichloroethane	ND	ND	µg/kg	--	0/16	0.35 - 30	N/A	150	N	N	ND
75-34-3	1,1-Dichloroethane	1.3 J	1.9 J	µg/kg	BH84-13: 2-4 ft BGS (6/26/2013)	2/16	0.3 - 21	1.9 J	3.6	C	N	BSV
75-35-4	1,1-Dichloroethene	ND	ND	µg/kg	--	0/16	0.49 - 35	N/A	23000	N	N	ND
120-82-1	1,2,4-Trichlorobenzene	ND	ND	µg/kg	--	0/13	0.22 - 310	N/A	5800	N	N	ND
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	ND	µg/kg	--	0/13	0.61 - 210	N/A	5.3	C	N	ND
106-93-4	1,2-Dibromoethane (Ethylene dibromide)	ND	ND	µg/kg	--	0/16	0.31 - 190	N/A	36	C	N	ND
95-50-1	1,2-Dichlorobenzene	ND	ND	µg/kg	--	0/13	0.2 - 49	N/A	180000	N	N	ND
107-06-2	1,2-Dichloroethane	ND	ND	µg/kg	--	0/16	0.26 - 28	N/A	460	C	N	ND
78-87-5	1,2-Dichloropropane	ND	ND	µg/kg	--	0/16	0.28 - 19	N/A	1600	N	N	ND
541-73-1	1,3-Dichlorobenzene	2.4 J	2.4 J	µg/kg	TT-10: 10 ft BGS (10/3/2008)	1/14	0.26 - 49	2.4 J	180000 (5)	N	N	BSV
106-46-7	1,4-Dichlorobenzene	2.6 J	8.6 J	µg/kg	TT-10: 10- ft BGS (10/3/2008)	3/15	0.31 - 40	8.6 J	2600	C	N	BSV
78-93-3	2-Butanone (Methyl ethyl ketone) (MEK)	3.9 J	380 J	µg/kg	SS-65: 0.25-2.25 ft BGS (10/30/2018)	6/16	1.1 - 200	380 J	2700000	N	N	BSV
591-78-6	2-Hexanone	ND	ND	µg/kg	--	0/16	0.52 - 620	N/A	20000	N	N	ND
108-10-1	4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ND	ND	µg/kg	--	0/16	0.8 - 560	N/A	3300000	N	N	ND
67-64-1	Acetone	24	770 J	µg/kg	SS-65: 0.25-2.25 ft BGS (10/30/2018)	7/15	2.8 - 94	770 J	6100000	N	N	BSV
71-43-2	Benzene	0.32 J	0.98 J	µg/kg	BH112-17: 13-15 ft BGS (12/19/2017)	2/16	0.29 - 19	0.98 J	1200	C	N	BSV
75-27-4	Bromodichloromethane	ND	ND	µg/kg	--	0/16	0.3 - 66	N/A	290	C	N	ND
75-25-2	Bromoform	ND	ND	µg/kg	--	0/16	0.36 - 250	N/A	19000	C	N	ND
74-83-9	Bromomethane (Methyl bromide)	ND	ND	µg/kg	--	0/15	0.53 - 390	N/A	680	N	N	ND
75-15-0	Carbon disulfide	1.2 J	2.8 J	µg/kg	BH83-13: 5-7.5 ft BGS (6/24/2013)	2/15	0.19 - 250	2.8 J	77000	N	N	BSV
56-23-5	Carbon tetrachloride	ND	ND	µg/kg	--	0/16	0.22 - 42	N/A	650	C	N	ND
108-90-7	Chlorobenzene	1.4 J	1.4 J	µg/kg	BH84-13: 2-4 ft BGS (6/26/2013)	1/16	0.3 - 82	1.4 J	28000	N	N	BSV
75-00-3	Chloroethane	ND	ND	µg/kg	--	0/16	0.34 - 350	N/A	1400000	N	N	ND
67-66-3	Chloroform (Trichloromethane)	0.34 J	0.34 J	µg/kg	BH83-13: 5-7.5 ft BGS (6/24/2013)	1/16	0.21 - 21	0.34 J	320	C	N	BSV
74-87-3	Chloromethane (Methyl chloride)	ND	ND	µg/kg	--	0/16	0.34 - 150	N/A	11000	N	N	ND
156-59-2	cis-1,2-Dichloroethene	0.79 J	28 J	µg/kg	SS-64: 0-2 ft BGS (10/30/2018)	3/16	0.25 - 21	28 J	16000	N	N	BSV
10061-01-5	cis-1,3-Dichloropropene	ND	ND	µg/kg	--	0/16	0.23 - 87	N/A	1800	C	N	ND
110-82-7	Cyclohexane	0.36 J	1400 J	µg/kg	SS-65: 0.25-2.25 ft BGS (10/30/2018)	3/16	0.19 - 200	1400 J	650000	N	N	BSV
124-48-1	Dibromochloromethane	ND	ND	µg/kg	--	0/16	0.27 - 270	N/A	8300	C	N	ND
75-71-8	Dichlorodifluoromethane (CFC-12)	ND	ND	µg/kg	--	0/15	0.31 - 14	N/A	8700	N	N	ND
100-41-4	Ethylbenzene	0.37 J	65 J	µg/kg	SS-64: 0-2 ft BGS (10/30/2018)	4/16	0.24 - 190	65 J	5800	C	N	BSV
98-82-8	Isopropyl benzene	1.3 J	150 J	µg/kg	SS-65: 0.25-2.25 ft BGS (10/30/2018)	2/16	0.18 - 48	150 J	190000	N	N	BSV
79-20-9	Methyl acetate	ND	ND	µg/kg	--	0/16	1.1 - 1200	N/A	7800000	N	N	ND
108-87-2	Methyl cyclohexane	0.42 J	5900 J	µg/kg	SS-65: 0.25-2.25 ft BGS (10/30/2018)	4/16	0.21 - 29	5900 J	650000 (5)	N	N	BSV
1634-04-4	Methyl tert butyl ether (MTBE)	ND	ND	µg/kg	--	0/16	0.24 - 87	N/A	47000	C	N	ND
75-09-2	Methylene chloride	1.9 J	980 J	µg/kg	SS-64: 0-2 ft BGS (10/30/2018)	4/16	0.26 - 900	980 J	35000	N	N	BSV
100-42-5	Styrene	ND	ND	µg/kg	--	0/16	0.24 - 28	N/A	600000	N	N	ND
127-18-4	Tetrachloroethene	4.7 J	58 J	µg/kg	SS-64: 0-2 ft BGS (10/30/2018)	3/16	0.33 - 35	58 J	8100	N	N	BSV
108-88-3	Toluene	0.36 J	630 J	µg/kg	SS-65: 0.25-2.25 ft BGS (10/30/2018)	7/16	0.31 - 5.3	630 J	490000	N	N	BSV
156-60-5	trans-1,2-Dichloroethene	ND	ND	µg/kg	--	0/16	0.34 - 35	N/A	160000	N	N	ND

Table 18

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU12 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU12 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Volatile Organic Compounds (cont.'d)											
10061-02-6	trans-1,3-Dichloropropene	ND	ND	µg/kg	--	0/16	0.19 - 250	N/A	1800	C	N	ND
79-01-6	Trichloroethene	2.7 J	81 J	µg/kg	SS-64: 0-2 ft BGS (10/30/2018)	5/16	0.37 - 30	81 J	410	N	N	BSV
75-69-4	Trichlorofluoromethane (CFC-11)	ND	ND	µg/kg	--	0/16	0.22 - 110	N/A	2300000	N	N	ND
76-13-1	Trifluorotrichloroethane (CFC-113)	ND	ND	µg/kg	--	0/16	0.44 - 160	N/A	670000	N	N	ND
75-01-4	Vinyl chloride	1.7 J	1.7 J	µg/kg	BH84-13: 2-4 ft BGS (6/26/2013)	1/16	0.25 - 23	1.7 J	59	C	N	BSV
1330-20-7	Xylenes (total)	1.2 J	2300 J	µg/kg	SS-65: 0.25-2.25 ft BGS (10/30/2018)	4/16	0.36 - 29	2300 J	58000	N	N	BSV
	Semi-Volatiles Organic Compounds											
108-60-1	2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ND	ND	µg/kg	--	0/14	11 - 160	N/A	310000	N	N	ND
95-95-4	2,4,5-Trichlorophenol	ND	ND	µg/kg	--	0/14	29 - 390	N/A	630000	N	N	ND
88-06-2	2,4,6-Trichlorophenol	ND	ND	µg/kg	--	0/14	10 - 360	N/A	6300	N	N	ND
120-83-2	2,4-Dichlorophenol	ND	ND	µg/kg	--	0/14	23 - 250	N/A	19000	N	N	ND
105-67-9	2,4-Dimethylphenol	ND	ND	µg/kg	--	0/13	23 - 230	N/A	130000	N	N	ND
51-28-5	2,4-Dinitrophenol	ND	ND	µg/kg	--	0/14	24 - 810	N/A	13000	N	N	ND
121-14-2	2,4-Dinitrotoluene	ND	ND	µg/kg	--	0/14	20 - 350	N/A	1700	C	N	ND
606-20-2	2,6-Dinitrotoluene	ND	ND	µg/kg	--	0/14	24 - 320	N/A	360	C	N	ND
91-58-7	2-Chloronaphthalene	ND	ND	µg/kg	--	0/14	0.52 - 80	N/A	480000	N	N	ND
95-57-8	2-Chlorophenol	ND	ND	µg/kg	--	0/14	9.4 - 78	N/A	39000	N	N	ND
91-57-6	2-Methylnaphthalene	15 J	3200 J	µg/kg	SS-65: 0.25-2.25 ft BGS (10/30/2018)	12/14	0.57 - 10	3200 J	240000	N	N	BSV
95-48-7	2-Methylphenol	ND	ND	µg/kg	--	0/14	13 - 310	N/A	320000	N	N	ND
88-74-4	2-Nitroaniline	ND	ND	µg/kg	--	0/14	10 - 310	N/A	63000	n	N	ND
88-75-5	2-Nitrophenol	ND	ND	µg/kg	--	0/14	9.5 - 78	N/A	--		N	ND
3/4-Cresol	3&4-Methylphenol	91 J	420 J	µg/kg	SS-69: 0.33-2.33 ft BGS (10/30/2018)	2/11	23 - 85	420 J	320000 (5)	N	N	BSV
91-94-1	3,3'-Dichlorobenzidine	ND	ND	µg/kg	--	0/13	21 - 240	N/A	1200	c	N	ND
99-09-2	3-Nitroaniline	ND	ND	µg/kg	--	0/14	18 - 310	N/A	--		N	ND
534-52-1	4,6-Dinitro-2-methylphenol	ND	ND	µg/kg	--	0/14	11 - 450	N/A	510	N	N	ND
101-55-3	4-Bromophenyl phenyl ether	ND	ND	µg/kg	--	0/14	15 - 80	N/A	--		N	ND
59-50-7	4-Chloro-3-methylphenol	ND	ND	µg/kg	--	0/14	24 - 260	N/A	630000	N	N	ND
106-47-8	4-Chloroaniline	ND	ND	µg/kg	--	0/14	20 - 230	N/A	2700	C	N	ND
7005-72-3	4-Chlorophenyl phenyl ether	ND	ND	µg/kg	--	0/14	15 - 80	N/A	--		N	ND
100-01-6	4-Nitroaniline	ND	ND	µg/kg	--	0/14	30 - 340	N/A	25000	N	N	ND
100-02-7	4-Nitrophenol	ND	ND	µg/kg	--	0/14	20 - 530	N/A	--		N	ND
83-32-9	Acenaphthene	11 J	190	µg/kg	SS-69: 0.33-2.33 ft BGS (10/30/2018)	6/14	0.87 - 10	190	360000	N	N	BSV
208-96-8	Acenaphthylene	4.3 J	110	µg/kg	SS-62: 0.17-2.17 ft BGS (10/30/2018)	6/14	1.1 - 23	110	360000 (5)	N	N	BSV
98-86-2	Acetophenone	22 J	210 J	µg/kg	SS-69: 0.33-2.33 ft BGS (10/30/2018)	3/14	11 - 160	210 J	780000	N	N	BSV
120-12-7	Anthracene	9.3 J	240	µg/kg	BH111-18: 7.5-9.5 ft BGS (1/11/2018)	8/14	0.9 - 10	240	1800000	N	N	BSV
1912-24-9	Atrazine	ND	ND	µg/kg	--	0/14	10 - 310	N/A	2400	C	N	ND
100-52-7	Benzaldehyde	35 J	330 J	µg/kg	SS-65: 0.25-2.25 ft BGS (10/30/2018)	3/14	14 - 160	330 J	170000	N	N	BSV
56-55-3	Benzo(a)anthracene	5.3 J	860	µg/kg	BH111-18: 7.5-9.5 ft BGS (1/11/2018)	12/14	10	860	1100	C	N	BSV
50-32-8	**Benzo(a)pyrene**	**16**	**770**	**µg/kg**	**BH111-18: 7.5-9.5 ft BGS (1/11/2018)**	**9/14**	**2 - 53**	**770**	**110**	**C**	**Y**	**ASV**
205-99-2	Benzo(b)fluoranthene	9.4 J	1100	µg/kg	SS-62: 0.17-2.17 ft BGS (10/30/2018)	11/14	1.8 - 10	1100	1100	C	N	BSV

Table 18

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU12 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU12 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Semi-Volatiles Organic Compounds (cont.'d)											
191-24-2	Benzo(g,h,i)perylene	9.4 J	510	µg/kg	SS-62: 0.17-2.17 ft BGS (10/30/2018)	10/14	1.1 - 40	510	180000 (5)	N	N	BSV
207-08-9	Benzo(k)fluoranthene	8.5	480	µg/kg	BH111-18: 7.5-9.5 ft BGS (1/11/2018)	8/14	2.1 - 39	480	11000	C	N	BSV
92-52-4	Biphenyl (1,1-Biphenyl)	34 J	250 J	µg/kg	SS-69: 0.33-2.33 ft BGS (10/30/2018)	4/14	4 - 78	250 J	4700	N	N	BSV
111-91-1	bis(2-Chloroethoxy)methane	ND	ND	µg/kg	--	0/14	13 - 160	N/A	19000	N	N	ND
111-44-4	bis(2-Chloroethyl)ether	ND	ND	µg/kg	--	0/14	2.3 - 160	N/A	230	C	N	ND
117-81-7	bis(2-Ethylhexyl)phthalate (DEHP)	54 J	620	µg/kg	BH111-18: 7.5-9.5 ft BGS (1/11/2018)	7/14	51 - 150	620	39000	C	N	BSV
85-68-7	Butyl benzylphthalate (BBP)	ND	ND	µg/kg	--	0/14	11 - 120	N/A	290000	C	N	ND
105-60-2	Caprolactam	ND	ND	µg/kg	--	0/14	42 - 510	N/A	3100000	N	N	ND
86-74-8	**Carbazole**	**32 J**	**140 J**	**µg/kg**	**SS-65: 0.25-2.25 ft BGS (10/30/2018)**	**3/14**	**21 - 110**	**140 J**	**--**		**Y**	**AD**
218-01-9	Chrysene	10 J	870	µg/kg	BH111-18: 7.5-9.5 ft BGS (1/11/2018)	12/14	10	870	110000	C	N	BSV
53-70-3	**Dibenz(a,h)anthracene**	**13 J**	**130**	**µg/kg**	**SS-62: 0.17-2.17 ft BGS (10/30/2018)**	**6/14**	**0.76 - 39**	**130**	**110**	**C**	**Y**	**ASV**
132-64-9	Dibenzofuran	26 J	990 J	µg/kg	SS-65: 0.25-2.25 ft BGS (10/30/2018)	6/14	0.76 - 78	990 J	7300	N	N	BSV
84-66-2	Diethyl phthalate	42 J	42 J	µg/kg	BH111-18: 7.5-9.5 ft BGS (1/11/2018)	1/14	33 - 180	42 J	5100000	N	N	BSV
131-11-3	Dimethyl phthalate	ND	ND	µg/kg	--	0/14	15 - 80	N/A	5100000 (5)	N	N	ND
84-74-2	Di-n-butylphthalate (DBP)	26 J	140 J	µg/kg	SS-69: 0.33-2.33 ft BGS (10/30/2018)	3/14	24 - 78	140 J	630000	N	N	BSV
117-84-0	Di-n-octyl phthalate (DnOP)	ND	ND	µg/kg	--	0/14	9.1 - 160	N/A	63000	N	N	ND
206-44-0	Fluoranthene	5.6 J	1800	µg/kg	BH111-18: 7.5-9.5 ft BGS (1/11/2018)	12/14	10	1800	240000	N	N	BSV
86-73-7	Fluorene	14 J	330	µg/kg	SS-69: 0.33-2.33 ft BGS (10/30/2018)	6/14	0.61 - 10	330	240000	N	N	BSV
118-74-1	Hexachlorobenzene	ND	ND	µg/kg	--	0/14	2.4 - 16	N/A	210	C	N	ND
87-68-3	Hexachlorobutadiene	ND	ND	µg/kg	--	0/14	6.4 - 78	N/A	1200	C	N	ND
77-47-4	Hexachlorocyclopentadiene	ND	ND	µg/kg	--	0/13	9.3 - 510	N/A	180	N	N	ND
67-72-1	Hexachloroethane	ND	ND	µg/kg	--	0/14	9.7 - 78	N/A	1800	C	N	ND
193-39-5	Indeno(1,2,3-cd)pyrene	11	470	µg/kg	SS-62: 0.17-2.17 ft BGS (10/30/2018)	9/14	1.1 - 42	470	1100	C	N	BSV
78-59-1	Isophorone	ND	ND	µg/kg	--	0/14	13 - 78	N/A	570000	C	N	ND
91-20-3	Naphthalene	6.1 J	1500 J	µg/kg	SS-65: 0.25-2.25 ft BGS (10/30/2018)	11/14	0.94 - 10	1500 J	3800	C	N	BSV
98-95-3	Nitrobenzene	ND	ND	µg/kg	--	0/14	2.5 - 160	N/A	5100	C	N	ND
621-64-7	N-Nitrosodi-n-propylamine	ND	ND	µg/kg	--	0/14	7.2 - 78	N/A	78	C	N	ND
86-30-6	N-Nitrosodiphenylamine	ND	ND	µg/kg	--	0/14	13 - 78	N/A	110000	C	N	ND
87-86-5	Pentachlorophenol	ND	ND	µg/kg	--	0/14	10 - 330	N/A	1000	C	N	ND
85-01-8	Phenanthrene	11	2300 J	µg/kg	SS-65: 0.25-2.25 ft BGS (10/30/2018)	13/14	10	2300 J	180000 (5)	N	N	BSV
108-95-2	Phenol	87 J	87 J	µg/kg	SS-69: 0.33-2.33 ft BGS (10/30/2018)	1/14	8.4 - 78	87 J	1900000	N	N	BSV
129-00-0	Pyrene	7.0 J	1400	µg/kg	BH111-18: 7.5-9.5 ft BGS (1/11/2018)	12/14	10	1400	180000	N	N	BSV
	Metals											
7429-90-5	**Aluminum**	**840**	**10000 J**	**mg/kg**	**BH111-18: 7.5-9.5 ft BGS (1/11/2018)**	**14/14**	**--**	**10000 J**	**7700**	**N**	**Y**	**ASV**
7440-36-0	Antimony	0.12 J	2.1 J	mg/kg	BH111-18: 7.5-9.5 ft BGS (1/11/2018)	14/14	--	2.1 J	3.1	N	N	BSV
7440-38-2	**Arsenic**	**1.7**	**51.2**	**mg/kg**	**TT-10: 15- ft BGS (10/3/2008)**	**14/14**	**--**	**51.2**	**0.68**	**C**	**Y**	**ASV**
7440-39-3	Barium	14	761	mg/kg	TT-10: 15- ft BGS (10/3/2008)	14/14	--	761	1500	N	N	BSV
7440-41-7	Beryllium	0.11 J	1.5	mg/kg	TT-10: 15- ft BGS (10/3/2008)	13/14	0.087	1.5	16	N	N	BSV
7440-43-9	Cadmium	0.090 J	2.1	mg/kg	BH111-18: 7.5-9.5 ft BGS (1/11/2018)	10/14	0.09 - 0.78	2.1	7.1	N	N	BSV
7440-70-2	Calcium	740	130000	mg/kg	SS-66: 0.17-2.17 ft BGS (10/30/2018)	14/14	--	130000	--		N	NAT
16065-83-1	Chromium III (trivalent)	6.8	83	mg/kg	BH112-17: 13-15 ft BGS (12/19/2017)	14/14	--	83	12000	N	N	BSV

Table 18

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU12 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU12 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Metals (cont.'d)											
18540-29-9	**Chromium VI (hexavalent)**	**1.1**	**2.4**	**mg/kg**	**TT-10: 15- ft BGS (10/3/2008)**	**3/14**	**0.26 - 1.5**	**2.4**	**0.3**	**C**	**Y**	**ASV**
7440-48-4	**Cobalt**	**0.76**	**7.1**	**mg/kg**	**SS-67: 0.17-2.17 ft BGS (10/30/2018)**	**14/14**	**--**	**7.1**	**2.3**	**N**	**Y**	**ASV**
7440-50-8	Copper	11	220	mg/kg	BH111-18: 7.5-9.5 ft BGS (1/11/2018)	14/14	--	220	310	N	N	BSV
57-12-5	Cyanide (total)	0.074 J	1.5	mg/kg	BH111-18: 7.5-9.5 ft BGS (1/11/2018)	5/14	0.21 - 0.78	1.5	2.3	N	N	BSV
7439-89-6	**Iron**	**4400**	**38000**	**mg/kg**	**BH112-17: 13-15 ft BGS (12/19/2017)**	**14/14**	**--**	**38000**	**5500**	**N**	**Y**	**ASV**
7439-92-1	Lead	8.0 J	180	mg/kg	BH111-18: 7.5-9.5 ft BGS (1/11/2018)	14/14	--	180	400	C	N	BSV
7439-92-1	Lead - coarse fraction	80	80	mg/kg	SS-66: 0.17-2.17 ft BGS (10/30/2018)	1/1	--	80	400	C	N	BSV
7439-92-1	Lead - fine fraction	200	200	mg/kg	SS-66: 0.17-2.17 ft BGS (10/30/2018)	1/1	--	200	400	C	N	BSV
7439-92-1	Lead - total (calculated by fine/coarse fraction)	92	92	mg/kg	SS-66: 0.17-2.17 ft BGS (10/30/2018)	1/1	--	92	400	C	N	BSV
7439-95-4	Magnesium	325 J	55000	mg/kg	SS-66: 0.17-2.17 ft BGS (10/30/2018)	14/14	--	55000	--		N	NAT
7439-96-5	**Manganese**	**13.5**	**2600**	**mg/kg**	**BH112-17: 13-15 ft BGS (12/19/2017)**	**14/14**	**--**	**2600**	**180**	**N**	**Y**	**ASV**
7439-97-6	Mercury	0.018 J	0.41	mg/kg	SS-62: 0.17-2.17 ft BGS (10/30/2018)	9/14	0.018 - 0.023	0.41	1.1	N	N	BSV
7440-02-0	Nickel	8.2	39	mg/kg	BH112-17: 13-15 ft BGS (12/19/2017)	14/14	--	39	150	N	N	BSV
7440-09-7	Potassium	86 J	1300	mg/kg	BH111-18: 7.5-9.5 ft BGS (1/11/2018)	13/14	51	1300	--		N	NAT
7782-49-2	Selenium	0.14 J	7.7 J	mg/kg	TT-10: 10- ft BGS (10/3/2008)	13/14	0.11	7.7 J	39	N	N	BSV
7440-22-4	Silver	0.021 J	0.21	mg/kg	BH111-18: 7.5-9.5 ft BGS (1/11/2018)	11/14	1.2 - 1.6	0.21	39	N	N	BSV
7440-23-5	Sodium	85 J	700	mg/kg	BH111-18: 7.5-9.5 ft BGS (1/11/2018)	8/14	47 - 776	700	--		N	NAT
7440-28-0	**Thallium**	**0.14 J**	**1.1**	**mg/kg**	**TT-10: 15- ft BGS (10/3/2008)**	**9/14**	**0.044 - 0.76**	**1.1**	**0.078**	**N**	**Y**	**ASV**
7440-62-2	**Vanadium**	**1.6**	**49 J**	**mg/kg**	**SS-65: 0.25-2.25 ft BGS (10/30/2018)**	**14/14**	**--**	**49 J**	**39**	**N**	**Y**	**ASV**
7440-66-6	Zinc	12.1	440	mg/kg	BH111-18: 7.5-9.5 ft BGS (1/11/2018)	14/14	--	440	2300	N	N	BSV
	Polychlorinated Biphenyls											
12674-11-2	Aroclor-1016 (PCB-1016)	ND	ND	µg/kg	--	0/14	24 - 51	N/A	410	N	N	ND
11104-28-2	Aroclor-1221 (PCB-1221)	ND	ND	µg/kg	--	0/14	26 - 51	N/A	200	C	N	ND
11141-16-5	Aroclor-1232 (PCB-1232)	ND	ND	µg/kg	--	0/14	25 - 51	N/A	170	C	N	ND
53469-21-9	Aroclor-1242 (PCB-1242)	ND	ND	µg/kg	--	0/14	20 - 51	N/A	230	C	N	ND
12672-29-6	Aroclor-1248 (PCB-1248)	ND	ND	µg/kg	--	0/14	26 - 51	N/A	230	C	N	ND
11097-69-1	**Aroclor-1254 (PCB-1254)**	**150**	**210**	**µg/kg**	**SS-62: 0.17-2.17 ft BGS (10/30/2018)**	**2/14**	**25 - 51**	**210**	**120**	**C**	**Y**	**ASV**
11096-82-5	Aroclor-1260 (PCB-1260)	ND	ND	µg/kg	--	0/14	24 - 51	N/A	240	C	N	ND
	Pesticides											
72-54-8	4,4'-DDD	5.0 J	5.0 J	µg/kg	BH113-18: 9-11 ft BGS (1/3/2018)	1/14	1.6 - 41	5.0 J	190	C	N	BSV
72-55-9	4,4'-DDE	1.4 J	27 J	µg/kg	TT-10: 5 ft BGS (10/3/2008)	3/14	1.3 - 22	27 J	2000	C	N	BSV
50-29-3	4,4'-DDT	ND	ND	µg/kg	--	0/14	1.2 - 41	N/A	1900	C	N	ND
309-00-2	Aldrin	ND	ND	µg/kg	--	0/14	0.82 - 41	N/A	39	C	N	ND
319-84-6	alpha-BHC	10	10	µg/kg	SS-68: 0.17-2.17 ft BGS (10/30/2018)	1/14	0.97 - 41	10	86	C	N	BSV
5103-71-9	alpha-Chlordane	ND	ND	µg/kg	--	0/14	1.6 - 41	N/A	1700	C	N	ND
319-85-7	beta-BHC	8.1 NJ	20 NJ	µg/kg	SS-65: 0.25-2.25 ft BGS (10/30/2018)	2/14	1.8 - 41	20 NJ	300	C	N	BSV
319-86-8	delta-BHC	ND	ND	µg/kg	--	0/14	1.4 - 41	N/A	300	C	N	ND
60-57-1	Dieldrin	ND	ND	µg/kg	--	0/14	0.98 - 41	N/A	34	C	N	ND
959-98-8	Endosulfan I	ND	ND	µg/kg	--	0/14	1.3 - 41	N/A	47000	N	N	ND
33213-65-9	Endosulfan II	ND	ND	µg/kg	--	0/14	1.6 - 41	N/A	47000	N	N	ND
1031-07-8	Endosulfan sulfate	ND	ND	µg/kg	--	0/14	1.3 - 41	N/A	47000	N	N	ND

Table 18

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU12 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU12 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Pesticides (cont.'d)											
72-20-8	Endrin	ND	ND	µg/kg	--	0/14	1.5 - 41	N/A	1900	N	N	ND
7421-93-4	Endrin aldehyde	ND	ND	µg/kg	--	0/14	1.4 - 45	N/A	1900	N	N	ND
53494-70-5	Endrin ketone	1.1 J	1.1 J	µg/kg	TT-10: 15 ft BGS (10/3/2008)	1/14	0.95 - 41	1.1 J	1900	N	N	BSV
58-89-9	gamma-BHC (lindane)	ND	ND	µg/kg	--	0/14	1.9 - 41	N/A	570	C	N	ND
5103-74-2	gamma-Chlordane	ND	ND	µg/kg	--	0/14	1.3 - 41	N/A	1700	C	N	ND
76-44-8	Heptachlor	ND	ND	µg/kg	--	0/14	0.85 - 41	N/A	130	C	N	ND
1024-57-3	Heptachlor epoxide	ND	ND	µg/kg	--	0/14	1.5 - 41	N/A	70	C	N	ND
72-43-5	Methoxychlor	1.5 NJ	5.5 J	µg/kg	BH113-18: 9-11 ft BGS (1/3/2018)	2/14	1.5 - 96	5.5 J	32000	N	N	BSV
8001-35-2	Toxaphene	ND	ND	µg/kg	--	0/14	27 - 1600	N/A	490	C	N	ND
	Herbicides											
93-76-5	2,4,5-T	ND	ND	µg/kg	--	0/1	16	N/A	63000	N	N	ND
93-72-1	2,4,5-TP (Silvex)	ND	ND	µg/kg	--	0/4	18 - 31	N/A	51000	N	N	ND
94-75-7	2,4-Dichlorophenoxyacetic acid (2,4-D)	ND	ND	µg/kg	--	0/4	62 - 120	N/A	70000	N	N	ND
	Dioxins/Furans											
39001-02-0	1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	4.0 J	4.0 J	pg/g	BH112-17: 13-15 ft BGS (12/19/2017)	1/1	--	4.0 J	--			Refer to Total TEQ
3268-87-9	1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	79 J	79 J	pg/g	BH112-17: 13-15 ft BGS (12/19/2017)	1/1	--	79 J	--			Refer to Total TEQ
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	1.7 J	1.7 J	pg/g	BH112-17: 13-15 ft BGS (12/19/2017)	1/1	--	1.7 J	--			Refer to Total TEQ
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	4.8 J	4.8 J	pg/g	BH112-17: 13-15 ft BGS (12/19/2017)	1/1	--	4.8 J	--			Refer to Total TEQ
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	ND	ND	pg/g	--	0/1	0.21	N/A	--			Refer to Total TEQ
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	ND	ND	pg/g	--	0/1	0.22	N/A	--			Refer to Total TEQ
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	ND	ND	pg/g	--	0/1	0.097	N/A	--			Refer to Total TEQ
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	ND	ND	pg/g	--	0/1	0.2	N/A	--			Refer to Total TEQ
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	0.61 J	0.61 J	pg/g	BH112-17: 13-15 ft BGS (12/19/2017)	1/1	--	0.61 J	--			Refer to Total TEQ
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	ND	ND	pg/g	--	0/1	0.24	N/A	--			Refer to Total TEQ
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	0.37 J	0.37 J	pg/g	BH112-17: 13-15 ft BGS (12/19/2017)	1/1	--	0.37 J	--			Refer to Total TEQ
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	ND	ND	pg/g	--	0/1	0.076	N/A	--			Refer to Total TEQ
40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	ND	ND	pg/g	--	0/1	0.064	N/A	--			Refer to Total TEQ
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	ND	ND	pg/g	--	0/1	0.2	N/A	--			Refer to Total TEQ
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	ND	ND	pg/g	--	0/1	0.073	N/A	--			Refer to Total TEQ
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran (TCDF)	0.69 J	0.69 J	pg/g	BH112-17: 13-15 ft BGS (12/19/2017)	1/1	--	0.69 J	--			Refer to Total TEQ
1746-01-6	2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	ND	ND	pg/g	--	0/1	0.12	N/A	--			Refer to Total TEQ
38998-75-3	Total heptachlorodibenzofuran (HpCDF)	5.8 J	5.8 J	pg/g	BH112-17: 13-15 ft BGS (12/19/2017)	1/1	--	5.8 J	--			Refer to Total TEQ
37871-00-4	Total heptachlorodibenzo-p-dioxin (HpCDD)	9.8 J	9.8 J	pg/g	BH112-17: 13-15 ft BGS (12/19/2017)	1/1	--	9.8 J	--			Refer to Total TEQ
55684-94-1	Total hexachlorodibenzofuran (HxCDF)	1.8 J	1.8 J	pg/g	BH112-17: 13-15 ft BGS (12/19/2017)	1/1	--	1.8 J	--			Refer to Total TEQ
34465-46-8	Total hexachlorodibenzo-p-dioxin (HxCDD)	4.0 J	4.0 J	pg/g	BH112-17: 13-15 ft BGS (12/19/2017)	1/1	--	4.0 J	--			Refer to Total TEQ
30402-15-4	Total pentachlorodibenzofuran (PeCDF)	3.5 J	3.5 J	pg/g	BH112-17: 13-15 ft BGS (12/19/2017)	1/1	--	3.5 J	--			Refer to Total TEQ
36088-22-9	Total pentachlorodibenzo-p-dioxin (PeCDD)	0.94 J	0.94 J	pg/g	BH112-17: 13-15 ft BGS (12/19/2017)	1/1	--	0.94 J	--			Refer to Total TEQ
55722-27-5	Total tetrachlorodibenzofuran (TCDF)	7.3 J	7.3 J	pg/g	BH112-17: 13-15 ft BGS (12/19/2017)	1/1	--	7.3 J	--			Refer to Total TEQ
41903-57-5	Total tetrachlorodibenzo-p-dioxin (TCDD)	0.45 J	0.45 J	pg/g	BH112-17: 13-15 ft BGS (12/19/2017)	1/1	--	0.45 J	--			Refer to Total TEQ
TOTALTEQND0	Total TEQ (DL @ 0)	0.2569	0.2569	pg/g	BH112-17: 13-15 ft BGS (12/19/2017)	1/1	--	0.2569	4.8	C	N	BSV
TOTALTEQND0.5	Total TEQ (DL @ Half)	0.40989	0.40989	pg/g	BH112-17: 13-15 ft BGS (12/19/2017)	1/1	--	0.40989	4.8	C	N	BSV

Table 18

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU12 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU12 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)	COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Asbestos										
1332-21-4	Asbestos	ND	ND	%	--	0/2	0.25 - 1	N/A	--	N	ND
12001-29-5	Chrysotile asbestos	ND	ND	%	--	0/2	1	N/A	--	N	ND

Notes:

(1) Minimum/maximum detected concentration.
(2) Based on data collected from sampling locations: BH83-13, BH84-13, BH111-18, BH112-18, BH113-18, SS-62, SS-63, SS-64, SS-65, SS-66, SS-67, SS-68, SS-69, SS-89, SS-167-AS, TT-10.
(3) Regional Screening Level (RSL) Summary Table (TR = 1E-06, HI = 0.1) , Residential Soil, November 2018.
(4) Rationale Codes

Selection Reason: Maximum detected above Screening Value (ASV)
Analyte Detected and no Screening Value available (AD)
Deletion Reason: Maximum detected below Screening Value (BSV)
Naturally Occurring (NAT)

(5) No screening value available, surrogate screening value implemented as follows:

Chemical		Surrogate
1,3-dichlorobenzene	-	1,2-dichlorobenzene
methyl cyclohexane	-	cyclohexane
3&4-methylphenol	-	3-methylphenol
acenaphthylene	-	acenaphthene
benzo(g,h,i)perylene	-	pyrene
phenanthrene	-	pyrene
dimethylphthalate	-	diethylphthalate

Defintions:

-- = Not Available
N = Noncarcinogen
C = Carcinogen
Y = Yes
N = No
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.

Table 19

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU13 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU13 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Volatile Organic Compounds											
71-55-6	1,1,1-Trichloroethane	2.1 J	2.1 J	µg/kg	SS-55: 0-2 ft BGS (10/29/2018)	1/8	0.84 - 49	2.1 J	810000	N	N	BSV
79-34-5	1,1,2,2-Tetrachloroethane	ND	ND	µg/kg	--	0/7	0.95 - 49	N/A	600	C	N	ND
79-00-5	1,1,2-Trichloroethane	ND	ND	µg/kg	--	0/8	1.3 - 45	N/A	150	N	N	ND
75-34-3	**1,1-Dichloroethane**	**25 J**	**25 J**	**µg/kg**	**SS-55: 0-2 ft BGS (10/29/2018)**	**1/8**	**0.81 - 31**	**25 J**	**3.6**	**C**	**Y**	**ASV**
75-35-4	1,1-Dichloroethene	ND	ND	µg/kg	--	0/8	1.1 - 52	N/A	23000	N	N	ND
120-82-1	1,2,4-Trichlorobenzene	ND	ND	µg/kg	--	0/7	0.88 - 460	N/A	5800	N	N	ND
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	ND	µg/kg	--	0/7	2.5 - 310	N/A	5.3	C	N	ND
106-93-4	1,2-Dibromoethane (Ethylene dibromide)	ND	ND	µg/kg	--	0/8	0.9 - 270	N/A	36	C	N	ND
95-50-1	1,2-Dichlorobenzene	ND	ND	µg/kg	--	0/7	0.81 - 73	N/A	180000	N	N	ND
107-06-2	1,2-Dichloroethane	ND	ND	µg/kg	--	0/8	0.9 - 42	N/A	460	C	N	ND
78-87-5	1,2-Dichloropropane	ND	ND	µg/kg	--	0/8	0.99 - 28	N/A	1600	N	N	ND
541-73-1	1,3-Dichlorobenzene	ND	ND	µg/kg	--	0/7	1.1 - 73	N/A	180000 (5)	N	N	ND
106-46-7	1,4-Dichlorobenzene	ND	ND	µg/kg	--	0/7	1.3 - 59	N/A	2600	C	N	ND
78-93-3	2-Butanone (Methyl ethyl ketone) (MEK)	22 J	510 J	µg/kg	SS-59: 0-2 ft BGS (10/30/2018)	2/9	4.1 - 550	510 J	2700000	N	N	BSV
591-78-6	2-Hexanone	ND	ND	µg/kg	--	0/8	2.1 - 910	N/A	20000	N	N	ND
108-10-1	4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ND	ND	µg/kg	--	0/8	3.3 - 830	N/A	3300000	N	N	ND
67-64-1	Acetone	1200 J	1200 J	µg/kg	SS-59: 0-2 ft BGS (10/30/2018)	1/9	11 - 850	1200 J	6100000	N	N	BSV
71-43-2	Benzene	190 J	190 J	µg/kg	SS-59: 0-2 ft BGS (10/30/2018)	1/9	0.81 - 28	190 J	1200	C	N	BSV
75-27-4	Bromodichloromethane	ND	ND	µg/kg	--	0/8	0.79 - 97	N/A	290	C	N	ND
75-25-2	Bromoform	ND	ND	µg/kg	--	0/8	1.5 - 370	N/A	19000	C	N	ND
74-83-9	Bromomethane (Methyl bromide)	ND	ND	µg/kg	--	0/8	1.1 - 580	N/A	680	N	N	ND
75-15-0	Carbon disulfide	ND	ND	µg/kg	--	0/8	0.77 - 380	N/A	77000	N	N	ND
56-23-5	Carbon tetrachloride	ND	ND	µg/kg	--	0/8	0.92 - 63	N/A	650	C	N	ND
108-90-7	Chlorobenzene	920 J	920 J	µg/kg	SS-59: 0-2 ft BGS (10/30/2018)	1/9	1.1 - 120	920 J	28000	N	N	BSV
75-00-3	Chloroethane	ND	ND	µg/kg	--	0/8	1.4 - 520	N/A	1400000	N	N	ND
67-66-3	Chloroform (Trichloromethane)	0.40 J	0.40 J	µg/kg	BH74-13: 0-2 ft BGS (6/20/2013)	1/8	0.84 - 31	0.40 J	320	C	N	BSV
74-87-3	Chloromethane (Methyl chloride)	ND	ND	µg/kg	--	0/8	1.2 - 230	N/A	11000	N	N	ND
156-59-2	cis-1,2-Dichloroethene	32 J	390 J	µg/kg	SS-57: 0.25-2.25 ft BGS (10/30/2018)	4/9	0.76 - 31	390 J	16000	N	N	BSV
10061-01-5	cis-1,3-Dichloropropene	ND	ND	µg/kg	--	0/8	0.95 - 130	N/A	1800	C	N	ND
110-82-7	Cyclohexane	1400 J	1400 J	µg/kg	SS-59: 0-2 ft BGS (10/30/2018)	1/9	0.77 - 570	1400 J	650000	N	N	BSV
124-48-1	Dibromochloromethane	ND	ND	µg/kg	--	0/8	1.1 - 410	N/A	8300	C	N	ND
75-71-8	Dichlorodifluoromethane (CFC-12)	ND	ND	µg/kg	--	0/4	1.1 - 180	N/A	8700	N	N	ND
100-41-4	Ethylbenzene	4000 J	4000 J	µg/kg	SS-59: 0-2 ft BGS (10/30/2018)	1/9	0.99 - 46	4000 J	5800	C	N	BSV
98-82-8	Isopropyl benzene	2700 J	2700 J	µg/kg	SS-59: 0-2 ft BGS (10/30/2018)	1/9	0.73 - 130	2700 J	190000	N	N	BSV
79-20-9	Methyl acetate	ND	ND	µg/kg	--	0/8	4 - 1800	N/A	7800000	N	N	ND
108-87-2	Methyl cyclohexane	3.7 J	11000 J	µg/kg	SS-59: 0-2 ft BGS (10/30/2018)	2/9	0.84 - 230	11000 J	650000 (5)	N	N	BSV
1634-04-4	Methyl tert butyl ether (MTBE)	ND	ND	µg/kg	--	0/8	0.95 - 130	N/A	47000	C	N	ND
75-09-2	Methylene chloride	8.9 J	8.9 J	µg/kg	BH74-13: 0-2 ft BGS (6/20/2013)	1/8	0.88 - 1300	8.9 J	35000	N	N	BSV
100-42-5	Styrene	ND	ND	µg/kg	--	0/8	0.99 - 42	N/A	600000	N	N	ND
127-18-4	Tetrachloroethene	230 J	7200 J	µg/kg	SS-60: 0.17-2.17 ft BGS (10/30/2018)	2/8	0.85 - 55	7200 J	8100	N	N	BSV
108-88-3	Toluene	3.1 J	1100 J	µg/kg	SS-59: 0-2 ft BGS (10/30/2018)	2/9	0.9 - 290	1100 J	490000	N	N	BSV
156-60-5	trans-1,2-Dichloroethene	10 J	66 J	µg/kg	SS-57: 0.25-2.25 ft BGS (10/30/2018)	2/8	0.54 - 52	66 J	160000	N	N	BSV

Table 19

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU13 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU13 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Volatile Organic Compounds (cont.'d)											
10061-02-6	trans-1,3-Dichloropropene	ND	ND	µg/kg	--	0/8	0.77 - 360	N/A	1800	C	N	ND
79-01-6	**Trichloroethene**	**3.3 J**	**13000 J**	**µg/kg**	**SS-57: 0.25-2.25 ft BGS (10/30/2018)**	**7/8**	**1.5**	**13000 J**	**410**	**N**	**Y**	**ASV**
75-69-4	Trichlorofluoromethane (CFC-11)	ND	ND	µg/kg	--	0/8	0.88 - 160	N/A	2300000	N	N	ND
76-13-1	Trifluorotrichloroethane (CFC-113)	ND	ND	µg/kg	--	0/8	1.5 - 230	N/A	670000	N	N	ND
75-01-4	Vinyl chloride	4.9 J	4.9 J	µg/kg	SS-55: 0-2 ft BGS (10/29/2018)	1/8	0.97 - 35	4.9 J	59	C	N	BSV
1330-20-7	Xylenes (total)	120 J	14000 J	µg/kg	SS-59: 0-2 ft BGS (10/30/2018)	2/9	1.5 - 80	14000 J	58000	N	N	BSV
	Semi-Volatiles Organic Compounds											
108-60-1	2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ND	ND	µg/kg	--	0/8	11 - 910	N/A	310000	N	N	ND
95-95-4	2,4,5-Trichlorophenol	ND	ND	µg/kg	--	0/8	35 - 6300	N/A	630000	N	N	ND
88-06-2	2,4,6-Trichlorophenol	ND	ND	µg/kg	--	0/8	12 - 5800	N/A	6300	N	N	ND
120-83-2	2,4-Dichlorophenol	ND	ND	µg/kg	--	0/8	28 - 4000	N/A	19000	N	N	ND
105-67-9	2,4-Dimethylphenol	ND	ND	µg/kg	--	0/8	28 - 3600	N/A	130000	N	N	ND
51-28-5	2,4-Dinitrophenol	ND	ND	µg/kg	--	0/8	29 - 13000	N/A	13000	N	N	ND
121-14-2	2,4-Dinitrotoluene	ND	ND	µg/kg	--	0/8	24 - 5600	N/A	1700	C	N	ND
606-20-2	2,6-Dinitrotoluene	ND	ND	µg/kg	--	0/8	29 - 5100	N/A	360	C	N	ND
91-58-7	2-Chloronaphthalene	ND	ND	µg/kg	--	0/8	0.63 - 1300	N/A	480000	N	N	ND
95-57-8	2-Chlorophenol	ND	ND	µg/kg	--	0/8	11 - 910	N/A	39000	N	N	ND
91-57-6	2-Methylnaphthalene	5.0 J	8600	µg/kg	SS-59: 0-2 ft BGS (10/30/2018)	8/8	3.3	8600	240000	N	N	BSV
95-48-7	2-Methylphenol	ND	ND	µg/kg	--	0/8	15 - 2800	N/A	320000	N	N	ND
88-74-4	2-Nitroaniline	ND	ND	µg/kg	--	0/8	13 - 3600	N/A	63000	n	N	ND
88-75-5	2-Nitrophenol	ND	ND	µg/kg	--	0/8	12 - 1200	N/A	--		N	ND
3/4-Cresol	3&4-Methylphenol	ND	ND	µg/kg	--	0/8	28 - 2600	N/A	320000 (5)	N	N	ND
91-94-1	3,3'-Dichlorobenzidine	ND	ND	µg/kg	--	0/8	25 - 3900	N/A	1200	c	N	ND
99-09-2	3-Nitroaniline	ND	ND	µg/kg	--	0/8	22 - 4500	N/A	--		N	ND
534-52-1	4,6-Dinitro-2-methylphenol	ND	ND	µg/kg	--	0/8	13 - 7300	N/A	510	N	N	ND
101-55-3	4-Bromophenyl phenyl ether	ND	ND	µg/kg	--	0/8	15 - 1300	N/A	--		N	ND
59-50-7	4-Chloro-3-methylphenol	ND	ND	µg/kg	--	0/8	29 - 4100	N/A	630000	N	N	ND
106-47-8	4-Chloroaniline	ND	ND	µg/kg	--	0/8	24 - 2700	N/A	2700	C	N	ND
7005-72-3	4-Chlorophenyl phenyl ether	ND	ND	µg/kg	--	0/8	15 - 1300	N/A	--		N	ND
100-01-6	4-Nitroaniline	ND	ND	µg/kg	--	0/8	36 - 5500	N/A	25000	N	N	ND
100-02-7	4-Nitrophenol	ND	ND	µg/kg	--	0/8	24 - 8600	N/A	--		N	ND
83-32-9	Acenaphthene	340 J	590	µg/kg	SS-56: 0-2 ft BGS (10/30/2018)	2/8	1.1 - 12	590	360000	N	N	BSV
208-96-8	Acenaphthylene	6.1 J	190	µg/kg	SS-61: 0-2 ft BGS (10/30/2018)	3/8	0.49 - 370	190	360000 (5)	N	N	BSV
98-86-2	Acetophenone	17 J	43 J	µg/kg	SS-58: 0-2 ft BGS (11/3/2017)	3/8	12 - 1000	43 J	780000	N	N	BSV
120-12-7	Anthracene	9.7 J	1700	µg/kg	SS-56: 0-2 ft BGS (10/30/2018)	5/8	1.1 - 220	1700	1800000	N	N	BSV
1912-24-9	Atrazine	ND	ND	µg/kg	--	0/8	13 - 3300	N/A	2400	C	N	ND
100-52-7	Benzaldehyde	55 J	55 J	µg/kg	SS-58: 0-2 ft BGS (11/3/2017)	1/8	25 - 2100	55 J	170000	N	N	BSV
56-55-3	**Benzo(a)anthracene**	**30**	**5200**	**µg/kg**	**SS-56: 0-2 ft BGS (10/30/2018)**	**7/8**	**5.1 - 5.7**	**5200**	**1100**	**C**	**Y**	**ASV**
50-32-8	**Benzo(a)pyrene**	**15 J**	**5200**	**µg/kg**	**SS-56: 0-2 ft BGS (10/30/2018)**	**7/8**	**16 - 850**	**5200**	**110**	**C**	**Y**	**ASV**
205-99-2	**Benzo(b)fluoranthene**	**10 J**	**8000**	**µg/kg**	**SS-56: 0-2 ft BGS (10/30/2018)**	**8/8**	**11**	**8000**	**1100**	**C**	**Y**	**ASV**

Table 19

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU13 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU13 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Semi-Volatiles Organic Compounds (cont.'d)											
191-24-2	Benzo(g,h,i)perylene	33	3600	µg/kg	SS-56: 0-2 ft BGS (10/30/2018)	6/8	11 - 650	3600	180000 (5)	N	N	BSV
207-08-9	Benzo(k)fluoranthene	11 J	3000	µg/kg	SS-56: 0-2 ft BGS (10/30/2018)	6/8	10 - 630	3000	11000	C	N	BSV
92-52-4	Biphenyl (1,1-Biphenyl)	19 J	65 J	µg/kg	SS-58: 0-2 ft BGS (11/3/2017)	3/8	20 - 1500	65 J	4700	N	N	BSV
111-91-1	bis(2-Chloroethoxy)methane	ND	ND	µg/kg	--	0/8	13 - 1100	N/A	19000	N	N	ND
111-44-4	bis(2-Chloroethyl)ether	ND	ND	µg/kg	--	0/8	2.8 - 1100	N/A	230	C	N	ND
117-81-7	bis(2-Ethylhexyl)phthalate (DEHP)	78	10000	µg/kg	SS-59: 0-2 ft BGS (10/30/2018)	4/8	48 - 620	10000	39000	C	N	BSV
85-68-7	Butyl benzylphthalate (BBP)	ND	ND	µg/kg	--	0/8	14 - 2000	N/A	290000	C	N	ND
105-60-2	Caprolactam	ND	ND	µg/kg	--	0/8	52 - 6800	N/A	3100000	N	N	ND
86-74-8	**Carbazole**	**21 J**	**1100**	**µg/kg**	**SS-56: 0-2 ft BGS (10/30/2018)**	**3/8**	**22 - 1700**	**1100**	**--**		**Y**	**AD**
218-01-9	Chrysene	12 J	5700	µg/kg	SS-56: 0-2 ft BGS (10/30/2018)	8/8	2.5	5700	110000	C	N	BSV
53-70-3	**Dibenz(a,h)anthracene**	**15 J**	**920**	**µg/kg**	**SS-56: 0-2 ft BGS (10/30/2018)**	**4/8**	**0.93 - 630**	**920**	**110**	**C**	**Y**	**ASV**
132-64-9	Dibenzofuran	18 J	430 J	µg/kg	SS-56: 0-2 ft BGS (10/30/2018)	6/8	20 - 1200	430 J	7300	N	N	BSV
84-66-2	Diethyl phthalate	ND	ND	µg/kg	--	0/8	22 - 2800	N/A	5100000	N	N	ND
131-11-3	Dimethyl phthalate	ND	ND	µg/kg	--	0/8	15 - 1300	N/A	5100000 (5)	N	N	ND
84-74-2	Di-n-butylphthalate (DBP)	37 J	3600 J	µg/kg	SS-59: 0-2 ft BGS (10/30/2018)	3/8	24 - 270	3600 J	630000	N	N	BSV
117-84-0	Di-n-octyl phthalate (DnOP)	ND	ND	µg/kg	--	0/8	11 - 2500	N/A	63000	N	N	ND
206-44-0	Fluoranthene	15 J	11000	µg/kg	SS-56: 0-2 ft BGS (10/30/2018)	8/8	7.4	11000	240000	N	N	BSV
86-73-7	Fluorene	6.1 J	580	µg/kg	SS-56: 0-2 ft BGS (10/30/2018)	5/8	0.74 - 4.6	580	240000	N	N	BSV
118-74-1	Hexachlorobenzene	ND	ND	µg/kg	--	0/8	2.9 - 260	N/A	210	C	N	ND
87-68-3	Hexachlorobutadiene	ND	ND	µg/kg	--	0/8	7.9 - 1100	N/A	1200	C	N	ND
77-47-4	Hexachlorocyclopentadiene	ND	ND	µg/kg	--	0/8	11 - 5600	N/A	180	N	N	ND
67-72-1	Hexachloroethane	ND	ND	µg/kg	--	0/8	9.9 - 820	N/A	1800	C	N	ND
193-39-5	**Indeno(1,2,3-cd)pyrene**	**17**	**3100**	**µg/kg**	**SS-56: 0-2 ft BGS (10/30/2018)**	**5/8**	**9.8 - 670**	**3100**	**1100**	**C**	**Y**	**ASV**
78-59-1	Isophorone	ND	ND	µg/kg	--	0/8	13 - 1100	N/A	570000	C	N	ND
91-20-3	**Naphthalene**	**31 J**	**4200**	**µg/kg**	**SS-59: 0-2 ft BGS (10/30/2018)**	**7/8**	**3.6 - 4**	**4200**	**3800**	**C**	**Y**	**ASV**
98-95-3	Nitrobenzene	ND	ND	µg/kg	--	0/8	3.1 - 1200	N/A	5100	C	N	ND
621-64-7	N-Nitrosodi-n-propylamine	ND	ND	µg/kg	--	0/8	8.8 - 1000	N/A	78	C	N	ND
86-30-6	N-Nitrosodiphenylamine	ND	ND	µg/kg	--	0/8	13 - 1100	N/A	110000	C	N	ND
87-86-5	Pentachlorophenol	ND	ND	µg/kg	--	0/8	13 - 5300	N/A	1000	C	N	ND
85-01-8	Phenanthrene	17 J	7800	µg/kg	SS-56: 0-2 ft BGS (10/30/2018)	8/8	3.7	7800	180000 (5)	N	N	BSV
108-95-2	Phenol	6600	6600	µg/kg	SS-59: 0-2 ft BGS (10/30/2018)	1/8	8.8 - 97	6600	1900000	N	N	BSV
129-00-0	Pyrene	15 J	8900	µg/kg	SS-56: 0-2 ft BGS (10/30/2018)	8/8	3.6	8900	180000	N	N	BSV
	Metals											
7429-90-5	**Aluminum**	**1700 J**	**8400**	**mg/kg**	**SS-56: 0-2 ft BGS (10/30/2018)**	**8/8**	**--**	**8400**	**7700**	**N**	**Y**	**ASV**
7440-36-0	**Antimony**	**0.59 J**	**1400 J**	**mg/kg**	**SS-54: 0.25-2.25 ft BGS (10/30/2018)**	**7/8**	**0.33**	**1400 J**	**3.1**	**N**	**Y**	**ASV**
7440-38-2	**Arsenic**	**3.6**	**70**	**mg/kg**	**SS-60: 0.17-2.17 ft BGS (10/30/2018)**	**8/8**	**--**	**70**	**0.68**	**C**	**Y**	**ASV**
7440-39-3	**Barium**	**55**	**1800**	**mg/kg**	**SS-56: 0-2 ft BGS (10/30/2018)**	**8/8**	**--**	**1800**	**1500**	**N**	**Y**	**ASV**
7440-41-7	Beryllium	0.42	6	mg/kg	SS-55: 0-2 ft BGS (10/29/2018)	8/8	--	6	16	N	N	BSV
7440-43-9	**Cadmium**	**0.10 J**	**30**	**mg/kg**	**SS-61: 0-2 ft BGS (10/30/2018)**	**7/8**	**0.16**	**30**	**7.1**	**N**	**Y**	**ASV**
7440-70-2	Calcium	1400	120000	mg/kg	SS-59: 0-2 ft BGS (10/30/2018)	8/8	--	120000	--		N	NAT
16065-83-1	Chromium III (trivalent)	3	370	mg/kg	SS-61: 0-2 ft BGS (10/30/2018)	8/8	--	370	12000	N	N	BSV

Table 19

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU13 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU13 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Metals (cont.'d)											
18540-29-9	**Chromium VI (hexavalent)**	**0.5**	**1.4**	**mg/kg**	**SS-57: 0.25-2.25 ft BGS (10/30/2018)**	**3/8**	**0.26 - 1.6**	**1.4**	**0.3**	**C**	**Y**	**ASV**
7440-48-4	**Cobalt**	**2.2**	**24**	**mg/kg**	**SS-61: 0-2 ft BGS (10/30/2018)**	**8/8**	**--**	**24**	**2.3**	**N**	**Y**	**ASV**
7440-50-8	**Copper**	**12**	**3300**	**mg/kg**	**SS-61: 0-2 ft BGS (10/30/2018)**	**8/8**	**--**	**3300**	**310**	**N**	**Y**	**ASV**
57-12-5	**Cyanide (total)**	**0.38 J**	**4.1**	**mg/kg**	**SS-60: 0.17-2.17 ft BGS (10/30/2018)**	**6/8**	**0.22 - 0.33**	**4.1**	**2.3**	**N**	**Y**	**ASV**
7439-89-6	**Iron**	**4800**	**180000**	**mg/kg**	**SS-61: 0-2 ft BGS (10/30/2018)**	**8/8**	**--**	**180000**	**5500**	**N**	**Y**	**ASV**
7439-92-1	**Lead**	**2.9**	**26000 J**	**mg/kg**	**SS-54: 0.25-2.25 ft BGS (10/30/2018)**	**8/8**	**--**	**26000 J**	**400**	**C**	**Y**	**ASV**
7439-92-1	**Lead - coarse fraction**	**980**	**6300**	**mg/kg**	**SS-59: 0-2 ft BGS (10/30/2018)**	**2/2**	**--**	**6300**	**400**	**C**	**Y**	**ASV**
7439-92-1	**Lead - fine fraction**	**1500**	**5300**	**mg/kg**	**SS-59: 0-2 ft BGS (10/30/2018)**	**2/2**	**--**	**5300**	**400**	**C**	**Y**	**ASV**
7439-92-1	**Lead - total (calculated by fine/coarse fraction)**	**35**	**1100**	**mg/kg**	**SS-61: 0-2 ft BGS (10/30/2018)**	**2/2**	**--**	**1100**	**400**	**C**	**Y**	**ASV**
7439-95-4	Magnesium	290	38000	mg/kg	SS-59: 0-2 ft BGS (10/30/2018)	8/8	--	38000	--		N	NAT
7439-96-5	**Manganese**	**19**	**2300**	**mg/kg**	**SS-61: 0-2 ft BGS (10/30/2018)**	**8/8**	**--**	**2300**	**180**	**N**	**Y**	**ASV**
7439-97-6	**Mercury**	**0.039 J**	**3.2**	**mg/kg**	**SS-61: 0-2 ft BGS (10/30/2018)**	**8/8**	**--**	**3.2**	**1.1**	**N**	**Y**	**ASV**
7440-02-0	**Nickel**	**6**	**310**	**mg/kg**	**SS-61: 0-2 ft BGS (10/30/2018)**	**8/8**	**--**	**310**	**150**	**N**	**Y**	**ASV**
7440-09-7	Potassium	320	1100	mg/kg	SS-61: 0-2 ft BGS (10/30/2018)	7/8	210	1100	--		N	NAT
7782-49-2	Selenium	0.16 J	4	mg/kg	SS-60: 0.17-2.17 ft BGS (10/30/2018)	8/8	--	4	39	N	N	BSV
7440-22-4	Silver	0.018 J	28	mg/kg	SS-56: 0-2 ft BGS (10/30/2018)	8/8	--	28	39	N	N	BSV
7440-23-5	Sodium	140 J	1500	mg/kg	SS-61: 0-2 ft BGS (10/30/2018)	7/8	60	1500	--		N	NAT
7440-28-0	**Thallium**	**0.14 J**	**2**	**mg/kg**	**SS-60: 0.17-2.17 ft BGS (10/30/2018)**	**7/8**	**0.067**	**2**	**0.078**	**N**	**Y**	**ASV**
7440-62-2	**Vanadium**	**7.8**	**130**	**mg/kg**	**SS-61: 0-2 ft BGS (10/30/2018)**	**8/8**	**--**	**130**	**39**	**N**	**Y**	**ASV**
7440-66-6	**Zinc**	**14**	**3400 J**	**mg/kg**	**SS-61: 0-2 ft BGS (10/30/2018)**	**8/8**	**--**	**3400 J**	**2300**	**N**	**Y**	**ASV**
	Polychlorinated Biphenyls											
12674-11-2	Aroclor-1016 (PCB-1016)	ND	ND	µg/kg	--	0/8	23 - 2200	N/A	410	N	N	ND
11104-28-2	Aroclor-1221 (PCB-1221)	ND	ND	µg/kg	--	0/8	25 - 2400	N/A	200	C	N	ND
11141-16-5	Aroclor-1232 (PCB-1232)	ND	ND	µg/kg	--	0/8	23 - 2300	N/A	170	C	N	ND
53469-21-9	Aroclor-1242 (PCB-1242)	ND	ND	µg/kg	--	0/8	20 - 1900	N/A	230	C	N	ND
12672-29-6	Aroclor-1248 (PCB-1248)	ND	ND	µg/kg	--	0/8	24 - 2400	N/A	230	C	N	ND
11097-69-1	**Aroclor-1254 (PCB-1254)**	**49 J**	**140000**	**µg/kg**	**SS-59: 0-2 ft BGS (10/30/2018)**	**6/8**	**20 - 26**	**140000**	**120**	**C**	**Y**	**ASV**
11096-82-5	Aroclor-1260 (PCB-1260)	54 J	110	µg/kg	SS-54: 0.25-2.25 ft BGS (10/30/2018)	1/8	23 - 2200	110	240	C	N	BSV
	Pesticides											
72-54-8	4,4'-DDD	34 NJ	43 J	µg/kg	SS-55: 0-2 ft BGS (10/29/2018)	1/8	1.6 - 150	43 J	190	C	N	BSV
72-55-9	4,4'-DDE	280	280	µg/kg	SS-60: 0.17-2.17 ft BGS (10/30/2018)	1/8	1.6 - 150	280	2000	C	N	BSV
50-29-3	4,4'-DDT	3.5 NJ	760	µg/kg	SS-60: 0.17-2.17 ft BGS (10/30/2018)	4/8	12 - 120	760	1900	C	N	BSV
309-00-2	Aldrin	ND	ND	µg/kg	--	0/8	0.84 - 79	N/A	39	C	N	ND
319-84-6	alpha-BHC	ND	ND	µg/kg	--	0/8	0.99 - 93	N/A	86	C	N	ND
5103-71-9	alpha-Chlordane	ND	ND	µg/kg	--	0/8	1.6 - 150	N/A	1700	C	N	ND
319-85-7	beta-BHC	ND	ND	µg/kg	--	0/8	1.9 - 180	N/A	300	C	N	ND
319-86-8	delta-BHC	ND	ND	µg/kg	--	0/8	1.8 - 170	N/A	300	C	N	ND
60-57-1	Dieldrin	ND	ND	µg/kg	--	0/8	1.2 - 110	N/A	34	C	N	ND

Table 19

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU13 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU13 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Pesticides (cont.'d)											
959-98-8	Endosulfan I	ND	ND	µg/kg	--	0/8	1.3 - 120	N/A	47000	N	N	ND
33213-65-9	Endosulfan II	ND	ND	µg/kg	--	0/8	1.6 - 150	N/A	47000	N	N	ND
1031-07-8	Endosulfan sulfate	ND	ND	µg/kg	--	0/8	1.4 - 130	N/A	47000	N	N	ND
72-20-8	Endrin	ND	ND	µg/kg	--	0/8	2.1 - 190	N/A	1900	N	N	ND
7421-93-4	Endrin aldehyde	280 J	280 J	µg/kg	SS-59: 0-2 ft BGS (10/30/2018)	1/8	1.4 - 35	280 J	1900	N	N	BSV
53494-70-5	Endrin ketone	17 J	17 J	µg/kg	SS-55: 0-2 ft BGS (10/29/2018)	1/8	0.97 - 91	17 J	1900	N	N	BSV
58-89-9	gamma-BHC (lindane)	ND	ND	µg/kg	--	0/8	1.9 - 180	N/A	570	C	N	ND
5103-74-2	gamma-Chlordane	ND	ND	µg/kg	--	0/8	1.3 - 130	N/A	1700	C	N	ND
76-44-8	Heptachlor	ND	ND	µg/kg	--	0/8	1.7 - 160	N/A	130	C	N	ND
1024-57-3	**Heptachlor epoxide**	**75 NJ**	**75 NJ**	**µg/kg**	**SS-60: 0.17-2.17 ft BGS (10/30/2018)**	**1/8**	**1.6 - 150**	**75 NJ**	**70**	**C**	**Y**	**ASV**
72-43-5	Methoxychlor	ND	ND	µg/kg	--	0/8	7.1 - 670	N/A	32000	N	N	ND
8001-35-2	Toxaphene	ND	ND	µg/kg	--	0/8	27 - 2600	N/A	490	C	N	ND
	Herbicides											
93-76-5	2,4,5-T	ND	ND	µg/kg	--	0/1	17	N/A	63000	N	N	ND
93-72-1	2,4,5-TP (Silvex)	ND	ND	µg/kg	--	0/1	18	N/A	51000	N	N	ND
94-75-7	2,4-Dichlorophenoxyacetic acid (2,4-D)	ND	ND	µg/kg	--	0/1	63	N/A	70000	N	N	ND
	Asbestos											
12001-29-5	Chrysotile asbestos	ND	ND	%	--	0/1	0.25	N/A	--		N	ND

Notes:

(1) Minimum/maximum detected concentration.
(2) Based on data collected from sampling locations: BH74-13, SS-54, SS-55, SS-56, SS-57, SS-58, SS-59, SS-60, SS-61, SS-94, SS-168-AS.
(3) Regional Screening Level (RSL) Summary Table (TR = 1E-06, HI = 0.1) , Residential Soil, November 2018.
(4) Rationale Codes
Selection Reason: Maximum detected above Screening Value (ASV)
Analyte Detected and no Screening Value available (AD)
Deletion Reason: Maximum detected below Screening Value (BSV)
Naturally Occurring (NAT)
(5) No screening value available, surrogate screening value implemented as follows:

Chemical		Surrogate
1,3-dichlorobenzene	-	1,2-dichlorobenzene
methyl cyclohexane	-	cyclohexane
3&4-methylphenol	-	3-methylphenol
acenaphthylene	-	acenaphthene
benzo(g,h,i)perylene	-	pyrene
phenanthrene	-	pyrene
dimethylphthalate	-	diethylphthalate

Defintions:

-- = Not Available
N = Noncarcinogen
C = Carcinogen
Y = Yes
N = No
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.

Table 20

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU13 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU13 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Volatile Organic Compounds											
71-55-6	1,1,1-Trichloroethane	2.1 J	54 J	µg/kg	BH109-18: 7.5-9.5 ft BGS (1/16/2018)	2/15	0.24 - 11000	54 J	810000	N	N	BSV
79-34-5	1,1,2,2-Tetrachloroethane	ND	ND	µg/kg	--	0/14	0.27 - 11000	N/A	600	C	N	ND
79-00-5	1,1,2-Trichloroethane	ND	ND	µg/kg	--	0/15	0.41 - 11000	N/A	150	N	N	ND
75-34-3	**1,1-Dichloroethane**	**25 J**	**25 J**	**µg/kg**	**SS-55: 0-2 ft BGS (10/29/2018)**	**1/15**	**0.34 - 11000**	**25 J**	**3.6**	**C**	**Y**	**ASV**
75-35-4	1,1-Dichloroethene	ND	ND	µg/kg	--	0/15	0.56 - 11000	N/A	23000	N	N	ND
120-82-1	1,2,4-Trichlorobenzene	210 J	210 J	µg/kg	BH67-13: 7-9 ft BGS (6/20/2013)	1/14	0.25 - 11000	210 J	5800	N	N	BSV
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	ND	µg/kg	--	0/14	0.71 - 23000	N/A	5.3	C	N	ND
106-93-4	1,2-Dibromoethane (Ethylene dibromide)	ND	ND	µg/kg	--	0/15	0.36 - 11000	N/A	36	C	N	ND
95-50-1	1,2-Dichlorobenzene	ND	ND	µg/kg	--	0/14	0.23 - 11000	N/A	180000	N	N	ND
107-06-2	1,2-Dichloroethane	ND	ND	µg/kg	--	0/15	0.3 - 11000	N/A	460	C	N	ND
78-87-5	1,2-Dichloropropane	ND	ND	µg/kg	--	0/15	0.32 - 11000	N/A	1600	N	N	ND
541-73-1	1,3-Dichlorobenzene	170 J	170 J	µg/kg	BH67-13: 7-9 ft BGS (6/20/2013)	1/14	0.3 - 11000	170 J	180000 (5)	N	N	BSV
106-46-7	1,4-Dichlorobenzene	ND	ND	µg/kg	--	0/14	0.36 - 11000	N/A	2600	C	N	ND
78-93-3	2-Butanone (Methyl ethyl ketone) (MEK)	22 J	510 J	µg/kg	SS-59: 0-2 ft BGS (10/30/2018)	2/16	1.3 - 46000	510 J	2700000	N	N	BSV
591-78-6	2-Hexanone	ND	ND	µg/kg	--	0/15	0.6 - 46000	N/A	20000	N	N	ND
108-10-1	4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ND	ND	µg/kg	--	0/15	0.93 - 46000	N/A	3300000	N	N	ND
67-64-1	Acetone	1200 J	4500 J	µg/kg	BH67-13: 7-9 ft BGS (6/20/2013)	2/16	3.2 - 46000	4500 J	6100000	N	N	BSV
71-43-2	Benzene	190 J	190 J	µg/kg	SS-59: 0-2 ft BGS (10/30/2018)	1/16	0.33 - 11000	190 J	1200	C	N	BSV
75-27-4	Bromodichloromethane	ND	ND	µg/kg	--	0/15	0.34 - 11000	N/A	290	C	N	ND
75-25-2	Bromoform	ND	ND	µg/kg	--	0/15	0.42 - 11000	N/A	19000	C	N	ND
74-83-9	Bromomethane (Methyl bromide)	ND	ND	µg/kg	--	0/15	0.61 - 11000	N/A	680	N	N	ND
75-15-0	Carbon disulfide	ND	ND	µg/kg	--	0/15	0.22 - 11000	N/A	77000	N	N	ND
56-23-5	Carbon tetrachloride	ND	ND	µg/kg	--	0/15	0.26 - 11000	N/A	650	C	N	ND
108-90-7	Chlorobenzene	320 J	1000 J	µg/kg	BH66-13: 10-12 ft BGS (6/26/2013)	3/16	0.34 - 170	1000 J	28000	N	N	BSV
75-00-3	Chloroethane	ND	ND	µg/kg	--	0/15	0.4 - 11000	N/A	1400000	N	N	ND
67-66-3	Chloroform (Trichloromethane)	0.40 J	0.40 J	µg/kg	BH74-13: 0-2 ft BGS (6/20/2013)	1/15	0.24 - 11000	0.40 J	320	C	N	BSV
74-87-3	Chloromethane (Methyl chloride)	ND	ND	µg/kg	--	0/15	0.4 - 11000	N/A	11000	N	N	ND
156-59-2	cis-1,2-Dichloroethene	32 J	890 J	µg/kg	BH67-13: 7-9 ft BGS (6/20/2013)	6/16	0.29 - 11000	890 J	16000	N	N	BSV
10061-01-5	cis-1,3-Dichloropropene	ND	ND	µg/kg	--	0/15	0.27 - 11000	N/A	1800	C	N	ND
110-82-7	Cyclohexane	85 J	1400 J	µg/kg	SS-59: 0-2 ft BGS (10/30/2018)	2/16	0.22 - 23000	1400 J	650000	N	N	BSV
124-48-1	Dibromochloromethane	ND	ND	µg/kg	--	0/15	0.31 - 11000	N/A	8300	C	N	ND
75-71-8	Dichlorodifluoromethane (CFC-12)	ND	ND	µg/kg	--	0/11	0.36 - 11000	N/A	8700	N	N	ND
100-41-4	**Ethylbenzene**	**4000 J**	**59000**	**µg/kg**	**BH67-13: 7-9 ft BGS (6/20/2013)**	**3/16**	**0.28 - 200**	**59000**	**5800**	**C**	**Y**	**ASV**
98-82-8	Isopropyl benzene	45 J	13000	µg/kg	BH66-13: 10-12 ft BGS (6/26/2013)	4/16	0.21 - 200	13000	190000	N	N	BSV
79-20-9	Methyl acetate	650 J	650 J	µg/kg	BH67-13: 7-9 ft BGS (6/20/2013)	1/15	1.2 - 23000	650 J	7800000	N	N	BSV
108-87-2	Methyl cyclohexane	3.7 J	53000	µg/kg	BH66-13: 10-12 ft BGS (6/26/2013)	5/16	0.24 - 230	53000	650000 (5)	N	N	BSV
1634-04-4	Methyl tert butyl ether (MTBE)	ND	ND	µg/kg	--	0/15	0.28 - 11000	N/A	47000	C	N	ND
75-09-2	Methylene chloride	8.9 J	4000	µg/kg	BH67-13: 7-9 ft BGS (6/20/2013)	2/15	0.88 - 20000	4000	35000	N	N	BSV
100-42-5	Styrene	ND	ND	µg/kg	--	0/15	0.28 - 11000	N/A	600000	N	N	ND
127-18-4	Tetrachloroethene	230 J	7200 J	µg/kg	SS-60: 0.17-2.17 ft BGS (10/30/2018)	3/15	0.39 - 11000	7200 J	8100	N	N	BSV
108-88-3	Toluene	3.1 J	1400 J	µg/kg	BH67-13: 7-9 ft BGS (6/20/2013)	3/16	0.35 - 11000	1400 J	490000	N	N	BSV

Table 20

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU13 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU13 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Volatile Organic Compounds (cont.'d)											
156-60-5	trans-1,2-Dichloroethene	10 J	66 J	µg/kg	SS-57: 0.25-2.25 ft BGS (10/30/2018)	2/15	0.4 - 11000	66 J	160000	N	N	BSV
10061-02-6	trans-1,3-Dichloropropene	ND	ND	µg/kg	--	0/15	0.22 - 11000	N/A	1800	C	N	ND
79-01-6	**Trichloroethene**	**2.8 J**	**13000 J**	**µg/kg**	**SS-57: 0.25-2.25 ft BGS (10/30/2018)**	**11/15**	**1.5 - 11000**	**13000 J**	**410**	**N**	**Y**	**ASV**
75-69-4	Trichlorofluoromethane (CFC-11)	ND	ND	µg/kg	--	0/15	0.25 - 11000	N/A	2300000	N	N	ND
76-13-1	Trifluorotrichloroethane (CFC-113)	ND	ND	µg/kg	--	0/15	0.51 - 11000	N/A	670000	N	N	ND
75-01-4	Vinyl chloride	4.9 J	4.9 J	µg/kg	SS-55: 0-2 ft BGS (10/29/2018)	1/15	0.29 - 11000	4.9 J	59	C	N	BSV
1330-20-7	**Xylenes (total)**	**45 J**	**140000**	**µg/kg**	**BH66-13: 10-12 ft BGS (6/26/2013)**	**7/16**	**0.42 - 80**	**140000**	**58000**	**N**	**Y**	**ASV**
	Semi-Volatiles Organic Compounds											
108-60-1	2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ND	ND	µg/kg	--	0/13	11 - 910	N/A	310000	N	N	ND
95-95-4	2,4,5-Trichlorophenol	ND	ND	µg/kg	--	0/13	30 - 6300	N/A	630000	N	N	ND
88-06-2	2,4,6-Trichlorophenol	ND	ND	µg/kg	--	0/13	11 - 5800	N/A	6300	N	N	ND
120-83-2	2,4-Dichlorophenol	ND	ND	µg/kg	--	0/13	24 - 4000	N/A	19000	N	N	ND
105-67-9	2,4-Dimethylphenol	170 J	170 J	µg/kg	BH109-18: 7.5-9.5 ft BGS (1/16/2018)	1/13	24 - 3600	170 J	130000	N	N	BSV
51-28-5	2,4-Dinitrophenol	ND	ND	µg/kg	--	0/13	25 - 13000	N/A	13000	N	N	ND
121-14-2	2,4-Dinitrotoluene	ND	ND	µg/kg	--	0/13	20 - 5600	N/A	1700	C	N	ND
606-20-2	2,6-Dinitrotoluene	ND	ND	µg/kg	--	0/13	25 - 5100	N/A	360	C	N	ND
91-58-7	2-Chloronaphthalene	ND	ND	µg/kg	--	0/13	0.53 - 1300	N/A	480000	N	N	ND
95-57-8	2-Chlorophenol	ND	ND	µg/kg	--	0/13	9.7 - 910	N/A	39000	N	N	ND
91-57-6	2-Methylnaphthalene	5.0 J	8800	µg/kg	TT-40: 6-8 ft BGS (11/3/2017)	13/13	3.3	8800	240000	N	N	BSV
95-48-7	2-Methylphenol	110 J	110 J	µg/kg	BH109-18: 7.5-9.5 ft BGS (1/16/2018)	1/13	13 - 2800	110 J	320000	N	N	BSV
88-74-4	2-Nitroaniline	ND	ND	µg/kg	--	0/13	11 - 3600	N/A	63000	n	N	ND
88-75-5	2-Nitrophenol	ND	ND	µg/kg	--	0/13	9.8 - 1200	N/A	--		N	ND
3/4-Cresol	3&4-Methylphenol	ND	ND	µg/kg	--	0/13	24 - 2600	N/A	320000 (5)	N	N	ND
91-94-1	3,3'-Dichlorobenzidine	ND	ND	µg/kg	--	0/13	21 - 3900	N/A	1200	c	N	ND
99-09-2	3-Nitroaniline	ND	ND	µg/kg	--	0/13	19 - 4500	N/A	--		N	ND
534-52-1	4,6-Dinitro-2-methylphenol	ND	ND	µg/kg	--	0/13	11 - 7300	N/A	510	N	N	ND
101-55-3	4-Bromophenyl phenyl ether	ND	ND	µg/kg	--	0/13	15 - 1300	N/A	--		N	ND
59-50-7	4-Chloro-3-methylphenol	ND	ND	µg/kg	--	0/13	25 - 4100	N/A	630000	N	N	ND
106-47-8	4-Chloroaniline	ND	ND	µg/kg	--	0/13	20 - 2700	N/A	2700	C	N	ND
7005-72-3	4-Chlorophenyl phenyl ether	ND	ND	µg/kg	--	0/13	15 - 1300	N/A	--		N	ND
100-01-6	4-Nitroaniline	ND	ND	µg/kg	--	0/13	31 - 5500	N/A	25000	N	N	ND
100-02-7	4-Nitrophenol	ND	ND	µg/kg	--	0/13	20 - 8600	N/A	--		N	ND
83-32-9	Acenaphthene	12	590	µg/kg	SS-56: 0-2 ft BGS (10/30/2018)	6/13	1.1 - 12	590	360000	N	N	BSV
208-96-8	Acenaphthylene	4.6 J	190	µg/kg	SS-61: 0-2 ft BGS (10/30/2018)	5/13	0.49 - 370	190	360000 (5)	N	N	BSV
98-86-2	Acetophenone	17 J	340 J	µg/kg	BH109-18: 7.5-9.5 ft BGS (1/16/2018)	4/13	11 - 1000	340 J	780000	N	N	BSV
120-12-7	Anthracene	9.7 J	1700	µg/kg	SS-56: 0-2 ft BGS (10/30/2018)	6/13	1.1 - 220	1700	1800000	N	N	BSV
1912-24-9	Atrazine	ND	ND	µg/kg	--	0/13	11 - 3300	N/A	2400	C	N	ND
100-52-7	Benzaldehyde	24 J	55 J	µg/kg	SS-58: 0-2 ft BGS (11/3/2017)	2/13	25 - 2100	55 J	170000	N	N	BSV
56-55-3	**Benzo(a)anthracene**	**30**	**5200**	**µg/kg**	**SS-56: 0-2 ft BGS (10/30/2018)**	**10/13**	**3.5 - 7.6**	**5200**	**1100**	**C**	**Y**	**ASV**
50-32-8	**Benzo(a)pyrene**	**15 J**	**5200**	**µg/kg**	**SS-56: 0-2 ft BGS (10/30/2018)**	**11/13**	**7.7 - 850**	**5200**	**110**	**C**	**Y**	**ASV**

Table 20

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU13 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU13 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Semi-Volatiles Organic Compounds (cont.'d)											
205-99-2	**Benzo(b)fluoranthene**	**10 J**	**8000**	**µg/kg**	**SS-56: 0-2 ft BGS (10/30/2018)**	**12/13**	**7.1 - 11**	**8000**	**1100**	**C**	**Y**	**ASV**
191-24-2	Benzo(g,h,i)perylene	33	3600	µg/kg	SS-56: 0-2 ft BGS (10/30/2018)	9/13	4.1 - 650	3600	180000 (5)	N	N	BSV
207-08-9	Benzo(k)fluoranthene	11 J	3000	µg/kg	SS-56: 0-2 ft BGS (10/30/2018)	9/13	7.9 - 630	3000	11000	C	N	BSV
92-52-4	Biphenyl (1,1-Biphenyl)	19 J	1600	µg/kg	TT-40: 6-8 ft BGS (11/3/2017)	6/13	20 - 1500	1600	4700	N	N	BSV
111-91-1	bis(2-Chloroethoxy)methane	ND	ND	µg/kg	--	0/13	13 - 1100	N/A	19000	N	N	ND
111-44-4	bis(2-Chloroethyl)ether	ND	ND	µg/kg	--	0/13	2.4 - 1100	N/A	230	C	N	ND
117-81-7	bis(2-Ethylhexyl)phthalate (DEHP)	78	10000	µg/kg	SS-59: 0-2 ft BGS (10/30/2018)	7/13	48 - 620	10000	39000	C	N	BSV
85-68-7	Butyl benzylphthalate (BBP)	ND	ND	µg/kg	--	0/13	12 - 2000	N/A	290000	C	N	ND
105-60-2	Caprolactam	ND	ND	µg/kg	--	0/13	44 - 6800	N/A	3100000	N	N	ND
86-74-8	**Carbazole**	**21 J**	**1100**	**µg/kg**	**SS-56: 0-2 ft BGS (10/30/2018)**	**4/13**	**22 - 1700**	**1100**	**--**		**Y**	**AD**
218-01-9	Chrysene	12 J	5700	µg/kg	SS-56: 0-2 ft BGS (10/30/2018)	11/13	2.5 - 13	5700	110000	C	N	BSV
53-70-3	**Dibenz(a,h)anthracene**	**15 J**	**920**	**µg/kg**	**SS-56: 0-2 ft BGS (10/30/2018)**	**5/13**	**0.93 - 630**	**920**	**110**	**C**	**Y**	**ASV**
132-64-9	Dibenzofuran	18 J	1100	µg/kg	BH109-18: 7.5-9.5 ft BGS (1/16/2018)	9/13	3.7 - 1200	1100	7300	N	N	BSV
84-66-2	Diethyl phthalate	19 J	19 J	µg/kg	BH108-18: 7-9 ft BGS (1/12/2018)	1/13	22 - 2800	19 J	5100000	N	N	BSV
131-11-3	Dimethyl phthalate	ND	ND	µg/kg	--	0/13	15 - 1300	N/A	5100000 (5)	N	N	ND
84-74-2	Di-n-butylphthalate (DBP)	37 J	3600 J	µg/kg	SS-59: 0-2 ft BGS (10/30/2018)	3/13	18 - 270	3600 J	630000	N	N	BSV
117-84-0	Di-n-octyl phthalate (DnOP)	ND	ND	µg/kg	--	0/13	9.3 - 2500	N/A	63000	N	N	ND
206-44-0	Fluoranthene	15 J	11000	µg/kg	SS-56: 0-2 ft BGS (10/30/2018)	13/13	7.4	11000	240000	N	N	BSV
86-73-7	Fluorene	6.1 J	670	µg/kg	BH110-18: 6.3-8.3 ft BGS (1/16/2018)	9/13	0.74 - 4.6	670	240000	N	N	BSV
118-74-1	Hexachlorobenzene	ND	ND	µg/kg	--	0/13	2.5 - 260	N/A	210	C	N	ND
87-68-3	Hexachlorobutadiene	ND	ND	µg/kg	--	0/13	6.6 - 1100	N/A	1200	C	N	ND
77-47-4	Hexachlorocyclopentadiene	ND	ND	µg/kg	--	0/13	9.6 - 5600	N/A	180	N	N	ND
67-72-1	Hexachloroethane	ND	ND	µg/kg	--	0/13	9.9 - 820	N/A	1800	C	N	ND
193-39-5	**Indeno(1,2,3-cd)pyrene**	**17**	**3100**	**µg/kg**	**SS-56: 0-2 ft BGS (10/30/2018)**	**8/13**	**4.1 - 670**	**3100**	**1100**	**C**	**Y**	**ASV**
78-59-1	Isophorone	ND	ND	µg/kg	--	0/13	13 - 1100	N/A	570000	C	N	ND
91-20-3	**Naphthalene**	**31 J**	**11000**	**µg/kg**	**TT-40: 6-8 ft BGS (11/3/2017)**	**11/13**	**3.6 - 4.6**	**11000**	**3800**	**C**	**Y**	**ASV**
98-95-3	Nitrobenzene	ND	ND	µg/kg	--	0/13	2.6 - 1200	N/A	5100	C	N	ND
621-64-7	N-Nitrosodi-n-propylamine	ND	ND	µg/kg	--	0/13	7.4 - 1000	N/A	78	C	N	ND
86-30-6	N-Nitrosodiphenylamine	ND	ND	µg/kg	--	0/13	13 - 1100	N/A	110000	C	N	ND
87-86-5	Pentachlorophenol	ND	ND	µg/kg	--	0/13	11 - 5300	N/A	1000	C	N	ND
85-01-8	Phenanthrene	17 J	7800	µg/kg	SS-56: 0-2 ft BGS (10/30/2018)	13/13	3.7	7800	180000 (5)	N	N	BSV
108-95-2	Phenol	6600	6600	µg/kg	SS-59: 0-2 ft BGS (10/30/2018)	1/13	8.6 - 97	6600	1900000	N	N	BSV
129-00-0	Pyrene	15 J	8900	µg/kg	SS-56: 0-2 ft BGS (10/30/2018)	13/13	3.6	8900	180000	N	N	BSV
	Metals											
7429-90-5	**Aluminum**	**1700 J**	**14000**	**mg/kg**	**BH110-18: 6.3-8.3 ft BGS (1/16/2018)**	**13/13**	**--**	**14000**	**7700**	**N**	**Y**	**ASV**
7440-36-0	**Antimony**	**0.24 J**	**1400 J**	**mg/kg**	**SS-54: 0.25-2.25 ft BGS (10/30/2018)**	**12/13**	**0.33**	**1400 J**	**3.1**	**N**	**Y**	**ASV**
7440-38-2	**Arsenic**	**3.6**	**70**	**mg/kg**	**SS-60: 0.17-2.17 ft BGS (10/30/2018)**	**13/13**	**--**	**70**	**0.68**	**C**	**Y**	**ASV**
7440-39-3	**Barium**	**55**	**1800**	**mg/kg**	**SS-56: 0-2 ft BGS (10/30/2018)**	**13/13**	**--**	**1800**	**1500**	**N**	**Y**	**ASV**
7440-41-7	Beryllium	0.31	6	mg/kg	SS-55: 0-2 ft BGS (10/29/2018)	13/13	--	6	16	N	N	BSV
7440-43-9	**Cadmium**	**0.10 J**	**30**	**mg/kg**	**SS-61: 0-2 ft BGS (10/30/2018)**	**12/13**	**0.16**	**30**	**7.1**	**N**	**Y**	**ASV**

Table 20

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU13 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU13 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Metals (cont.'d)											
7440-70-2	Calcium	1200	120000	mg/kg	SS-59: 0-2 ft BGS (10/30/2018)	13/13	--	120000	--		N	NAT
16065-83-1	Chromium III (trivalent)	3	370	mg/kg	SS-61: 0-2 ft BGS (10/30/2018)	14/14	--	370	12000	N	N	BSV
18540-29-9	**Chromium VI (hexavalent)**	**0.5**	**2.6**	**mg/kg**	**TT-40: 6-8 ft BGS (11/3/2017)**	**4/14**	**0.26 - 1.6**	**2.6**	**0.3**	**C**	**Y**	**ASV**
7440-48-4	**Cobalt**	**2.2**	**24**	**mg/kg**	**SS-61: 0-2 ft BGS (10/30/2018)**	**13/13**	**--**	**24**	**2.3**	**N**	**Y**	**ASV**
7440-50-8	**Copper**	**12**	**3300**	**mg/kg**	**SS-61: 0-2 ft BGS (10/30/2018)**	**13/13**	**--**	**3300**	**310**	**N**	**Y**	**ASV**
57-12-5	**Cyanide (total)**	**0.38 J**	**4.1**	**mg/kg**	**SS-60: 0.17-2.17 ft BGS (10/30/2018)**	**8/13**	**0.055 - 0.47**	**4.1**	**2.3**	**N**	**Y**	**ASV**
7439-89-6	**Iron**	**4800**	**180000**	**mg/kg**	**SS-61: 0-2 ft BGS (10/30/2018)**	**13/13**	**--**	**180000**	**5500**	**N**	**Y**	**ASV**
7439-92-1	**Lead**	**2.9**	**26000 J**	**mg/kg**	**SS-54: 0.25-2.25 ft BGS (10/30/2018)**	**13/13**	**--**	**26000 J**	**400**	**C**	**Y**	**ASV**
7439-92-1	**Lead - coarse fraction**	**980**	**6300**	**mg/kg**	**SS-59: 0-2 ft BGS (10/30/2018)**	**2/2**	**--**	**6300**	**400**	**C**	**Y**	**ASV**
7439-92-1	**Lead - fine fraction**	**1500**	**5300**	**mg/kg**	**SS-59: 0-2 ft BGS (10/30/2018)**	**2/2**	**--**	**5300**	**400**	**C**	**Y**	**ASV**
7439-92-1	**Lead - total (calculated by fine/coarse fraction)**	**35**	**1100**	**mg/kg**	**SS-61: 0-2 ft BGS (10/30/2018)**	**2/2**	**--**	**1100**	**400**	**C**	**Y**	**ASV**
7439-95-4	Magnesium	290	38000	mg/kg	SS-59: 0-2 ft BGS (10/30/2018)	13/13	--	38000	--		N	NAT
7439-96-5	**Manganese**	**19**	**2300**	**mg/kg**	**SS-61: 0-2 ft BGS (10/30/2018)**	**13/13**	**--**	**2300**	**180**	**N**	**Y**	**ASV**
7439-97-6	**Mercury**	**0.031 J**	**3.2**	**mg/kg**	**SS-61: 0-2 ft BGS (10/30/2018)**	**13/13**	**--**	**3.2**	**1.1**	**N**	**Y**	**ASV**
7440-02-0	**Nickel**	**6**	**310**	**mg/kg**	**SS-61: 0-2 ft BGS (10/30/2018)**	**13/13**	**--**	**310**	**150**	**N**	**Y**	**ASV**
7440-09-7	Potassium	320	1400	mg/kg	BH110-18: 6.3-8.3 ft BGS (1/16/2018)	11/13	180 - 210	1400	--		N	NAT
7782-49-2	Selenium	0.16 J	4	mg/kg	SS-60: 0.17-2.17 ft BGS (10/30/2018)	13/13	--	4	39	N	N	BSV
7440-22-4	Silver	0.018 J	28	mg/kg	SS-56: 0-2 ft BGS (10/30/2018)	13/13	--	28	39	N	N	BSV
7440-23-5	Sodium	80 J	1500	mg/kg	SS-61: 0-2 ft BGS (10/30/2018)	11/13	60 - 65	1500	--		N	NAT
7440-28-0	**Thallium**	**0.11 J**	**2**	**mg/kg**	**SS-60: 0.17-2.17 ft BGS (10/30/2018)**	**12/13**	**0.067**	**2**	**0.078**	**N**	**Y**	**ASV**
7440-62-2	**Vanadium**	**5**	**130**	**mg/kg**	**SS-61: 0-2 ft BGS (10/30/2018)**	**13/13**	**--**	**130**	**39**	**N**	**Y**	**ASV**
7440-66-6	**Zinc**	**14**	**3400 J**	**mg/kg**	**SS-61: 0-2 ft BGS (10/30/2018)**	**13/13**	**--**	**3400 J**	**2300**	**N**	**Y**	**ASV**
	Polychlorinated Biphenyls											
12674-11-2	Aroclor-1016 (PCB-1016)	ND	ND	µg/kg	--	0/15	23 - 2200	N/A	410	N	N	ND
11104-28-2	Aroclor-1221 (PCB-1221)	ND	ND	µg/kg	--	0/15	25 - 2400	N/A	200	C	N	ND
11141-16-5	Aroclor-1232 (PCB-1232)	ND	ND	µg/kg	--	0/15	18 - 2300	N/A	170	C	N	ND
53469-21-9	**Aroclor-1242 (PCB-1242)**	**380**	**380**	**µg/kg**	**BH66-13: 10-12 ft BGS (6/26/2013)**	**1/15**	**20 - 2000**	**380**	**230**	**C**	**Y**	**ASV**
12672-29-6	Aroclor-1248 (PCB-1248)	ND	ND	µg/kg	--	0/15	19 - 2400	N/A	230	C	N	ND
11097-69-1	**Aroclor-1254 (PCB-1254)**	**49 J**	**140000**	**µg/kg**	**SS-59: 0-2 ft BGS (10/30/2018)**	**11/15**	**20 - 28**	**140000**	**120**	**C**	**Y**	**ASV**
11096-82-5	Aroclor-1260 (PCB-1260)	54 J	110	µg/kg	SS-54: 0.25-2.25 ft BGS (10/30/2018)	1/15	20 - 2200	110	240	C	N	BSV
	Pesticides											
72-54-8	4,4'-DDD	34 NJ	43 J	µg/kg	SS-55: 0-2 ft BGS (10/29/2018)	1/13	1.6 - 190	43 J	190	C	N	BSV
72-55-9	4,4'-DDE	280	280	µg/kg	SS-60: 0.17-2.17 ft BGS (10/30/2018)	1/13	1.6 - 150	280	2000	C	N	BSV
50-29-3	4,4'-DDT	3.5 NJ	760	µg/kg	SS-60: 0.17-2.17 ft BGS (10/30/2018)	4/13	8 - 120	760	1900	C	N	BSV
309-00-2	Aldrin	ND	ND	µg/kg	--	0/13	0.84 - 130	N/A	39	C	N	ND
319-84-6	alpha-BHC	ND	ND	µg/kg	--	0/13	0.99 - 93	N/A	86	C	N	ND
5103-71-9	alpha-Chlordane	ND	ND	µg/kg	--	0/13	1.6 - 210	N/A	1700	C	N	ND
319-85-7	beta-BHC	ND	ND	µg/kg	--	0/13	1.9 - 220	N/A	300	C	N	ND
319-86-8	delta-BHC	ND	ND	µg/kg	--	0/13	1.8 - 170	N/A	300	C	N	ND
60-57-1	Dieldrin	ND	ND	µg/kg	--	0/13	1.2 - 110	N/A	34	C	N	ND

Table 20

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU13 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU13 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Pesticides (cont.'d)											
959-98-8	Endosulfan I	ND	ND	µg/kg	--	0/13	1.3 - 120	N/A	47000	N	N	ND
33213-65-9	Endosulfan II	ND	ND	µg/kg	--	0/13	1.6 - 150	N/A	47000	N	N	ND
1031-07-8	Endosulfan sulfate	ND	ND	µg/kg	--	0/13	1.4 - 130	N/A	47000	N	N	ND
72-20-8	Endrin	ND	ND	µg/kg	--	0/13	2.1 - 190	N/A	1900	N	N	ND
7421-93-4	Endrin aldehyde	280 J	280 J	µg/kg	SS-59: 0-2 ft BGS (10/30/2018)	1/13	1.4 - 100	280 J	1900	N	N	BSV
53494-70-5	Endrin ketone	17 J	17 J	µg/kg	SS-55: 0-2 ft BGS (10/29/2018)	1/13	0.97 - 91	17 J	1900	N	N	BSV
58-89-9	gamma-BHC (lindane)	ND	ND	µg/kg	--	0/13	1.9 - 180	N/A	570	C	N	ND
5103-74-2	gamma-Chlordane	ND	ND	µg/kg	--	0/13	1.3 - 130	N/A	1700	C	N	ND
76-44-8	Heptachlor	ND	ND	µg/kg	--	0/13	1.7 - 160	N/A	130	C	N	ND
1024-57-3	**Heptachlor epoxide**	**75 NJ**	**75 NJ**	**µg/kg**	**SS-60: 0.17-2.17 ft BGS (10/30/2018)**	**1/13**	**1.6 - 150**	**75 NJ**	**70**	**C**	**Y**	**ASV**
72-43-5	Methoxychlor	7.1 NJ	7.1 NJ	µg/kg	BH108-18: 7-9 ft BGS (1/12/2018)	1/13	7.1 - 670	7.1 NJ	32000	N	N	BSV
8001-35-2	Toxaphene	ND	ND	µg/kg	--	0/13	27 - 2600	N/A	490	C	N	ND
	Dioxins/Furans											
39001-02-0	1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	13	13	pg/g	TT-40: 6-8 ft BGS (11/3/2017)	1/1	--	13	--			Refer to Total TEQ
3268-87-9	1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	160	160	pg/g	TT-40: 6-8 ft BGS (11/3/2017)	1/1	--	160	--			Refer to Total TEQ
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	12	12	pg/g	TT-40: 6-8 ft BGS (11/3/2017)	1/1	--	12	--			Refer to Total TEQ
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	23	23	pg/g	TT-40: 6-8 ft BGS (11/3/2017)	1/1	--	23	--			Refer to Total TEQ
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	0.85 J	0.85 J	pg/g	TT-40: 6-8 ft BGS (11/3/2017)	1/1	--	0.85 J	--			Refer to Total TEQ
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	4.2 J	4.2 J	pg/g	TT-40: 6-8 ft BGS (11/3/2017)	1/1	--	4.2 J	--			Refer to Total TEQ
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	0.43 J	0.43 J	pg/g	TT-40: 6-8 ft BGS (11/3/2017)	1/1	--	0.43 J	--			Refer to Total TEQ
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	1.7 J	1.7 J	pg/g	TT-40: 6-8 ft BGS (11/3/2017)	1/1	--	1.7 J	--			Refer to Total TEQ
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	3.0 J	3.0 J	pg/g	TT-40: 6-8 ft BGS (11/3/2017)	1/1	--	3.0 J	--			Refer to Total TEQ
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	ND	ND	pg/g	--	0/1	0.047	N/A	--			Refer to Total TEQ
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	2.2 J	2.2 J	pg/g	TT-40: 6-8 ft BGS (11/3/2017)	1/1	--	2.2 J	--			Refer to Total TEQ
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	1.1 J	1.1 J	pg/g	TT-40: 6-8 ft BGS (11/3/2017)	1/1	--	1.1 J	--			Refer to Total TEQ
40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	0.52 J	0.52 J	pg/g	TT-40: 6-8 ft BGS (11/3/2017)	1/1	--	0.52 J	--			Refer to Total TEQ
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	1.5 J	1.5 J	pg/g	TT-40: 6-8 ft BGS (11/3/2017)	1/1	--	1.5 J	--			Refer to Total TEQ
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	2.5 J	2.5 J	pg/g	TT-40: 6-8 ft BGS (11/3/2017)	1/1	--	2.5 J	--			Refer to Total TEQ
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran (TCDF)	3.8	3.8	pg/g	TT-40: 6-8 ft BGS (11/3/2017)	1/1	--	3.8	--			Refer to Total TEQ
1746-01-6	2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	0.21 J	0.21 J	pg/g	TT-40: 6-8 ft BGS (11/3/2017)	1/1	--	0.21 J	--			Refer to Total TEQ
38998-75-3	Total heptachlorodibenzofuran (HpCDF)	27 J	27 J	pg/g	TT-40: 6-8 ft BGS (11/3/2017)	1/1	--	27 J	--			Refer to Total TEQ
37871-00-4	Total heptachlorodibenzo-p-dioxin (HpCDD)	46 J	46 J	pg/g	TT-40: 6-8 ft BGS (11/3/2017)	1/1	--	46 J	--			Refer to Total TEQ
55684-94-1	Total hexachlorodibenzofuran (HxCDF)	28 J	28 J	pg/g	TT-40: 6-8 ft BGS (11/3/2017)	1/1	--	28 J	--			Refer to Total TEQ
34465-46-8	Total hexachlorodibenzo-p-dioxin (HxCDD)	22 J	22 J	pg/g	TT-40: 6-8 ft BGS (11/3/2017)	1/1	--	22 J	--			Refer to Total TEQ
30402-15-4	Total pentachlorodibenzofuran (PeCDF)	33 J	33 J	pg/g	TT-40: 6-8 ft BGS (11/3/2017)	1/1	--	33 J	--			Refer to Total TEQ
36088-22-9	Total pentachlorodibenzo-p-dioxin (PeCDD)	110 J	110 J	pg/g	TT-40: 6-8 ft BGS (11/3/2017)	1/1	--	110 J	--			Refer to Total TEQ
55722-27-5	Total tetrachlorodibenzofuran (TCDF)	37 J	37 J	pg/g	TT-40: 6-8 ft BGS (11/3/2017)	1/1	--	37 J	--			Refer to Total TEQ
41903-57-5	Total tetrachlorodibenzo-p-dioxin (TCDD)	3.4 J	3.4 J	pg/g	TT-40: 6-8 ft BGS (11/3/2017)	1/1	--	3.4 J	--			Refer to Total TEQ
TOTALTEQND0	Total TEQ (DL @ 0)	3.6064	3.6064	pg/g	TT-40: 6-8 ft BGS (11/3/2017)	1/1	--	3.6064	4.8	C	N	BSV
TOTALTEQND0.5	Total TEQ (DL @ Half)	3.60875	3.60875	pg/g	TT-40: 6-8 ft BGS (11/3/2017)	1/1	--	3.60875	4.8	C	N	BSV

Table 20

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU13 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU13 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)	COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Asbestos										
1332-21-4	Asbestos	ND	ND	%	--	0/6	1	N/A	--	N	ND
12001-29-5	Chrysotile asbestos	ND	ND	%	--	0/1	0.25	N/A	--	N	ND

Notes:

(1) Minimum/maximum detected concentration.
(2) Based on data collected from sampling locations: BH66-13, BH67-13, BH74-13, BH107-18, BH1108-18, BH109-18, BH110-18, BH159-17, SS-54, SS-55, SS-56, SS-57, SS-58, SS-59, SS-60, SS-61, SS-94, SS-168-AS, TT-40.
(3) Regional Screening Level (RSL) Summary Table (TR = 1E-06, HI = 0.1) , Residential Soil, November 2018.
(4) Rationale Codes

Selection Reason: Maximum detected above Screening Value (ASV)
Analyte Detected and no Screening Value available (AD)
Deletion Reason: Maximum detected below Screening Value (BSV)
Naturally Occurring (NAT)

(5) No screening value available, surrogate screening value implemented as follows:

Chemical		Surrogate
1,3-dichlorobenzene	-	1,2-dichlorobenzene
methyl cyclohexane	-	cyclohexane
3&4-methylphenol	-	3-methylphenol
acenaphthylene	-	acenaphthene
benzo(g,h,i)perylene	-	pyrene
phenanthrene	-	pyrene
dimethylphthalate	-	diethylphthalate

Defintions:

-- = Not Available
N = Noncarcinogen
C = Carcinogen
Y = Yes
N = No
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.

Table 21

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU14 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU14 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Volatile Organic Compounds											
71-55-6	1,1,1-Trichloroethane	ND	ND	µg/kg	--	0/7	1.1 - 270	N/A	810000	N	N	ND
79-34-5	1,1,2,2-Tetrachloroethane	ND	ND	µg/kg	--	0/5	17 - 270	N/A	600	C	N	ND
79-00-5	1,1,2-Trichloroethane	ND	ND	µg/kg	--	0/7	1.5 - 270	N/A	150	N	N	ND
75-34-3	**1,1-Dichloroethane**	**2.6 J**	**110 J**	**µg/kg**	**SS-49: 0-2 ft BGS (10/29/2018)**	**3/7**	**0.91 - 270**	**110 J**	**3.6**	**C**	**Y**	**ASV**
75-35-4	1,1-Dichloroethene	ND	ND	µg/kg	--	0/7	1.2 - 270	N/A	23000	N	N	ND
120-82-1	1,2,4-Trichlorobenzene	ND	ND	µg/kg	--	0/5	160 - 350	N/A	5800	N	N	ND
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	ND	µg/kg	--	0/5	110 - 540	N/A	5.3	C	N	ND
106-93-4	1,2-Dibromoethane (Ethylene dibromide)	ND	ND	µg/kg	--	0/7	1 - 270	N/A	36	C	N	ND
95-50-1	1,2-Dichlorobenzene	ND	ND	µg/kg	--	0/5	26 - 270	N/A	180000	N	N	ND
107-06-2	1,2-Dichloroethane	4.3 J	4.3 J	µg/kg	SS-50: 0.17-2.17 ft BGS (10/29/2018)	1/7	1 - 270	4.3 J	460	C	N	BSV
78-87-5	1,2-Dichloropropane	ND	ND	µg/kg	--	0/7	1.1 - 270	N/A	1600	N	N	ND
541-73-1	1,3-Dichlorobenzene	ND	ND	µg/kg	--	0/5	26 - 270	N/A	180000 (5)	N	N	ND
106-46-7	1,4-Dichlorobenzene	ND	ND	µg/kg	--	0/5	21 - 270	N/A	2600	C	N	ND
78-93-3	2-Butanone (Methyl ethyl ketone) (MEK)	18 J	540 J	µg/kg	SS-49: 0-2 ft BGS (10/29/2018)	3/8	4.7 - 1100	540 J	2700000	N	N	BSV
591-78-6	2-Hexanone	ND	ND	µg/kg	--	0/7	5.4 - 1100	N/A	20000	N	N	ND
108-10-1	4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ND	ND	µg/kg	--	0/7	4.9 - 1100	N/A	3300000	N	N	ND
67-64-1	Acetone	510 J	510 J	µg/kg	SS-47: 0-2 ft BGS (11/2/2018)	1/7	28 - 1100	510 J	6100000	N	N	BSV
71-43-2	Benzene	37 J	310 J	µg/kg	SS-49: 0-2 ft BGS (10/29/2018)	2/7	0.92 - 270	310 J	1200	C	N	BSV
75-27-4	Bromodichloromethane	ND	ND	µg/kg	--	0/7	0.89 - 270	N/A	290	C	N	ND
75-25-2	Bromoform	ND	ND	µg/kg	--	0/7	3.2 - 280	N/A	19000	C	N	ND
74-83-9	Bromomethane (Methyl bromide)	ND	ND	µg/kg	--	0/7	1.3 - 440	N/A	680	N	N	ND
75-15-0	Carbon disulfide	ND	ND	µg/kg	--	0/7	1.5 - 290	N/A	77000	N	N	ND
56-23-5	Carbon tetrachloride	ND	ND	µg/kg	--	0/7	4.3 - 270	N/A	650	C	N	ND
108-90-7	Chlorobenzene	2100	2100	µg/kg	SS-47: 0-2 ft BGS (11/2/2018)	1/7	1.2 - 270	2100	28000	N	N	BSV
75-00-3	Chloroethane	ND	ND	µg/kg	--	0/7	1.6 - 400	N/A	1400000	N	N	ND
67-66-3	Chloroform (Trichloromethane)	ND	ND	µg/kg	--	0/7	1 - 270	N/A	320	C	N	ND
74-87-3	Chloromethane (Methyl chloride)	ND	ND	µg/kg	--	0/7	1.4 - 270	N/A	11000	N	N	ND
156-59-2	cis-1,2-Dichloroethene	49	320	µg/kg	SS-47: 0-2 ft BGS (11/2/2018)	4/7	1.4 - 270	320	16000	N	N	BSV
10061-01-5	cis-1,3-Dichloropropene	ND	ND	µg/kg	--	0/7	1.9 - 270	N/A	1800	C	N	ND
110-82-7	Cyclohexane	ND	ND	µg/kg	--	0/7	1.8 - 540	N/A	650000	N	N	ND
124-48-1	Dibromochloromethane	ND	ND	µg/kg	--	0/7	3.7 - 310	N/A	8300	C	N	ND
75-71-8	Dichlorodifluoromethane (CFC-12)	ND	ND	µg/kg	--	0/7	1.2 - 270	N/A	8700	N	N	ND
100-41-4	Ethylbenzene	1200	2600	µg/kg	SS-49: 0-2 ft BGS (10/29/2018)	2/7	1.4 - 270	2600	5800	C	N	BSV
98-82-8	Isopropyl benzene	230 J	230 J	µg/kg	SS-49: 0-2 ft BGS (10/29/2018)	1/7	1.1 - 270	230 J	190000	N	N	BSV
79-20-9	Methyl acetate	150 J	150 J	µg/kg	BH68-13: 0.5-2.5 ft BGS (6/19/2013)	1/7	4.5 - 1400	150 J	7800000	N	N	BSV
108-87-2	Methyl cyclohexane	37 J	790 J	µg/kg	SS-49: 0-2 ft BGS (10/29/2018)	3/7	1.6 - 110	790 J	650000 (5)	N	N	BSV
1634-04-4	Methyl tert butyl ether (MTBE)	ND	ND	µg/kg	--	0/7	1.1 - 270	N/A	47000	C	N	ND
75-09-2	Methylene chloride	ND	ND	µg/kg	--	0/7	16 - 1000	N/A	35000	N	N	ND
100-42-5	Styrene	ND	ND	µg/kg	--	0/7	1.5 - 270	N/A	600000	N	N	ND
127-18-4	Tetrachloroethene	1.7 J	67 J	µg/kg	SS-47: 0-2 ft BGS (11/2/2018)	2/8	0.96 - 270	67 J	8100	N	N	BSV
108-88-3	Toluene	24 J	4400	µg/kg	SS-49: 0-2 ft BGS (10/29/2018)	3/7	1 - 120	4400	490000	N	N	BSV
156-60-5	trans-1,2-Dichloroethene	2.2 J	24 J	µg/kg	SS-47: 0-2 ft BGS (11/2/2018)	3/7	0.61 - 270	24 J	160000	N	N	BSV

Table 21

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU14 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU14 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Volatile Organic Compounds (cont.'d)											
10061-02-6	trans-1,3-Dichloropropene	ND	ND	µg/kg	--	0/7	1.4 - 280	N/A	1800	C	N	ND
79-01-6	**Trichloroethene**	**3.4 J**	**6400**	**µg/kg**	**SS-48: 0.25-2.25 ft BGS (10/29/2018)**	**8/8**	**--**	**6400**	**410**	**N**	**Y**	**ASV**
75-69-4	Trichlorofluoromethane (CFC-11)	ND	ND	µg/kg	--	0/7	1.4 - 270	N/A	2300000	N	N	ND
76-13-1	Trifluorotrichloroethane (CFC-113)	ND	ND	µg/kg	--	0/7	1.7 - 270	N/A	670000	N	N	ND
75-01-4	**Vinyl chloride**	**1.6 J**	**410 J**	**µg/kg**	**SS-49: 0-2 ft BGS (10/29/2018)**	**3/7**	**1.1 - 270**	**410 J**	**59**	**C**	**Y**	**ASV**
1330-20-7	Xylenes (total)	97 J	9400	µg/kg	SS-49: 0-2 ft BGS (10/29/2018)	4/7	2.1 - 38	9400	58000	N	N	BSV
	Semi-Volatiles Organic Compounds											
108-60-1	2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ND	ND	µg/kg	--	0/7	13 - 67	N/A	310000	N	N	ND
95-95-4	2,4,5-Trichlorophenol	ND	ND	µg/kg	--	0/7	87 - 470	N/A	630000	N	N	ND
88-06-2	2,4,6-Trichlorophenol	ND	ND	µg/kg	--	0/7	80 - 430	N/A	6300	N	N	ND
120-83-2	2,4-Dichlorophenol	ND	ND	µg/kg	--	0/7	55 - 300	N/A	19000	N	N	ND
105-67-9	2,4-Dimethylphenol	ND	ND	µg/kg	--	0/7	50 - 270	N/A	130000	N	N	ND
51-28-5	2,4-Dinitrophenol	ND	ND	µg/kg	--	0/7	180 - 960	N/A	13000	N	N	ND
121-14-2	2,4-Dinitrotoluene	ND	ND	µg/kg	--	0/7	78 - 420	N/A	1700	C	N	ND
606-20-2	2,6-Dinitrotoluene	ND	ND	µg/kg	--	0/7	70 - 380	N/A	360	C	N	ND
91-58-7	2-Chloronaphthalene	ND	ND	µg/kg	--	0/7	18 - 94	N/A	480000	N	N	ND
95-57-8	2-Chlorophenol	ND	ND	µg/kg	--	0/7	13 - 67	N/A	39000	N	N	ND
91-57-6	2-Methylnaphthalene	52	720	µg/kg	SS-49: 0-2 ft BGS (10/29/2018)	7/7	--	720	240000	N	N	BSV
95-48-7	2-Methylphenol	ND	ND	µg/kg	--	0/7	39 - 210	N/A	320000	N	N	ND
88-74-4	2-Nitroaniline	ND	ND	µg/kg	--	0/7	50 - 270	N/A	63000	n	N	ND
88-75-5	2-Nitrophenol	ND	ND	µg/kg	--	0/7	16 - 88	N/A	--		N	ND
3/4-Cresol	3&4-Methylphenol	210 J	210 J	µg/kg	SS-49: 0-2 ft BGS (10/29/2018)	1/7	36 - 200	210 J	320000 (5)	N	N	BSV
91-94-1	3,3'-Dichlorobenzidine	ND	ND	µg/kg	--	0/7	54 - 290	N/A	1200	c	N	ND
99-09-2	3-Nitroaniline	ND	ND	µg/kg	--	0/7	62 - 330	N/A	--		N	ND
534-52-1	4,6-Dinitro-2-methylphenol	ND	ND	µg/kg	--	0/7	100 - 540	N/A	510	N	N	ND
101-55-3	4-Bromophenyl phenyl ether	ND	ND	µg/kg	--	0/7	18 - 94	N/A	--		N	ND
59-50-7	4-Chloro-3-methylphenol	ND	ND	µg/kg	--	0/7	57 - 300	N/A	630000	N	N	ND
106-47-8	4-Chloroaniline	ND	ND	µg/kg	--	0/7	38 - 200	N/A	2700	C	N	ND
7005-72-3	4-Chlorophenyl phenyl ether	ND	ND	µg/kg	--	0/7	18 - 94	N/A	--		N	ND
100-01-6	4-Nitroaniline	ND	ND	µg/kg	--	0/7	75 - 400	N/A	25000	N	N	ND
100-02-7	4-Nitrophenol	ND	ND	µg/kg	--	0/7	120 - 630	N/A	--		N	ND
83-32-9	Acenaphthene	22 J	72	µg/kg	SS-51: 0.25-2.25 ft BGS (10/29/2018)	5/7	16 - 19	72	360000	N	N	BSV
208-96-8	Acenaphthylene	14 J	310	µg/kg	SS-48: 0.25-2.25 ft BGS (10/29/2018)	6/7	27	310	360000 (5)	N	N	BSV
98-86-2	Acetophenone	38 J	48 J	µg/kg	SS-48: 0.25-2.25 ft BGS (10/29/2018)	2/7	17 - 74	48 J	780000	N	N	BSV
120-12-7	Anthracene	36	250	µg/kg	SS-51: 0.25-2.25 ft BGS (10/29/2018)	6/7	16	250	1800000	N	N	BSV
1912-24-9	Atrazine	ND	ND	µg/kg	--	0/7	45 - 240	N/A	2400	C	N	ND
100-52-7	Benzaldehyde	140	140	µg/kg	SS-48: 0.25-2.25 ft BGS (10/29/2018)	1/7	35 - 160	140	170000	N	N	BSV
56-55-3	**Benzo(a)anthracene**	**59**	**1700**	**µg/kg**	**SS-48: 0.25-2.25 ft BGS (10/29/2018)**	**7/7**	**--**	**1700**	**1100**	**C**	**Y**	**ASV**
50-32-8	**Benzo(a)pyrene**	**39**	**2000**	**µg/kg**	**SS-48: 0.25-2.25 ft BGS (10/29/2018)**	**7/7**	**--**	**2000**	**110**	**C**	**Y**	**ASV**
205-99-2	**Benzo(b)fluoranthene**	**61**	**3000**	**µg/kg**	**SS-48: 0.25-2.25 ft BGS (10/29/2018)**	**7/7**	**--**	**3000**	**1100**	**C**	**Y**	**ASV**

Table 21

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU14 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU14 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Semi-Volatiles Organic Compounds (cont.'d)											
191-24-2	Benzo(g,h,i)perylene	46	1900	µg/kg	SS-48: 0.25-2.25 ft BGS (10/29/2018)	7/7	--	1900	180000 (5)	N	N	BSV
207-08-9	Benzo(k)fluoranthene	160	1200	µg/kg	SS-48: 0.25-2.25 ft BGS (10/29/2018)	5/7	11 - 47	1200	11000	C	N	BSV
92-52-4	Biphenyl (1,1-Biphenyl)	29 J	97	µg/kg	SS-49: 0-2 ft BGS (10/29/2018)	2/7	41 - 110	97	4700	N	N	BSV
111-91-1	bis(2-Chloroethoxy)methane	ND	ND	µg/kg	--	0/7	15 - 81	N/A	19000	N	N	ND
111-44-4	bis(2-Chloroethyl)ether	ND	ND	µg/kg	--	0/7	15 - 81	N/A	230	C	N	ND
117-81-7	bis(2-Ethylhexyl)phthalate (DEHP)	130	1900	µg/kg	SS-50: 0.17-2.17 ft BGS (10/29/2018)	4/7	78 - 340	1900	39000	C	N	BSV
85-68-7	Butyl benzylphthalate (BBP)	250 J	250 J	µg/kg	SS-50: 0.17-2.17 ft BGS (10/29/2018)	1/7	28 - 150	250 J	290000	C	N	BSV
105-60-2	Caprolactam	ND	ND	µg/kg	--	0/7	94 - 510	N/A	3100000	N	N	ND
86-74-8	**Carbazole**	**60 J**	**120**	**µg/kg**	**SS-51: 0.25-2.25 ft BGS (10/29/2018)**	**4/7**	**29 - 130**	**120**	**--**		**Y**	**AD**
218-01-9	Chrysene	94	2000	µg/kg	SS-48: 0.25-2.25 ft BGS (10/29/2018)	7/7	--	2000	110000	C	N	BSV
53-70-3	**Dibenz(a,h)anthracene**	**91**	**510**	**µg/kg**	**SS-48: 0.25-2.25 ft BGS (10/29/2018)**	**4/7**	**11 - 47**	**510**	**110**	**C**	**Y**	**ASV**
132-64-9	Dibenzofuran	49 J	120	µg/kg	SS-49: 0-2 ft BGS (10/29/2018)	5/7	72 - 88	120	7300	N	N	BSV
84-66-2	Diethyl phthalate	ND	ND	µg/kg	--	0/7	39 - 210	N/A	5100000	N	N	ND
131-11-3	Dimethyl phthalate	ND	ND	µg/kg	--	0/7	18 - 94	N/A	5100000 (5)	N	N	ND
84-74-2	Di-n-butylphthalate (DBP)	71 J	71 J	µg/kg	SS-48: 0.25-2.25 ft BGS (10/29/2018)	1/7	34 - 150	71 J	630000	N	N	BSV
117-84-0	Di-n-octyl phthalate (DnOP)	ND	ND	µg/kg	--	0/7	35 - 190	N/A	63000	N	N	ND
206-44-0	Fluoranthene	110	2000	µg/kg	SS-51: 0.25-2.25 ft BGS (10/29/2018)	7/7	--	2000	240000	N	N	BSV
86-73-7	Fluorene	21	67	µg/kg	SS-51: 0.25-2.25 ft BGS (10/29/2018)	5/7	15 - 18	67	240000	N	N	BSV
118-74-1	Hexachlorobenzene	ND	ND	µg/kg	--	0/7	3.6 - 19	N/A	210	C	N	ND
87-68-3	Hexachlorobutadiene	ND	ND	µg/kg	--	0/7	15 - 81	N/A	1200	C	N	ND
77-47-4	Hexachlorocyclopentadiene	ND	ND	µg/kg	--	0/7	78 - 420	N/A	180	N	N	ND
67-72-1	Hexachloroethane	ND	ND	µg/kg	--	0/7	11 - 61	N/A	1800	C	N	ND
193-39-5	**Indeno(1,2,3-cd)pyrene**	**18 J**	**1700**	**µg/kg**	**SS-48: 0.25-2.25 ft BGS (10/29/2018)**	**7/7**	**--**	**1700**	**1100**	**C**	**Y**	**ASV**
78-59-1	Isophorone	ND	ND	µg/kg	--	0/7	15 - 81	N/A	570000	C	N	ND
91-20-3	Naphthalene	64	620	µg/kg	SS-49: 0-2 ft BGS (10/29/2018)	6/7	16	620	3800	C	N	BSV
98-95-3	Nitrobenzene	ND	ND	µg/kg	--	0/7	16 - 88	N/A	5100	C	N	ND
621-64-7	N-Nitrosodi-n-propylamine	ND	ND	µg/kg	--	0/7	14 - 74	N/A	78	C	N	ND
86-30-6	N-Nitrosodiphenylamine	ND	ND	µg/kg	--	0/7	15 - 81	N/A	110000	C	N	ND
87-86-5	Pentachlorophenol	ND	ND	µg/kg	--	0/7	73 - 390	N/A	1000	C	N	ND
85-01-8	Phenanthrene	130	1100	µg/kg	SS-51: 0.25-2.25 ft BGS (10/29/2018)	7/7	--	1100	180000 (5)	N	N	BSV
108-95-2	Phenol	37 J	87 J	µg/kg	SS-46: 0-2 ft BGS (10/30/2018)	3/7	12 - 44	87 J	1900000	N	N	BSV
129-00-0	Pyrene	110	2000	µg/kg	SS-48: 0.25-2.25 ft BGS (10/29/2018)	7/7	--	2000	180000	N	N	BSV
	Metals											
7429-90-5	**Aluminum**	**4000**	**9200**	**mg/kg**	**SS-51: 0.25-2.25 ft BGS (10/29/2018)**	**7/7**	**--**	**9200**	**7700**	**N**	**Y**	**ASV**
7440-36-0	**Antimony**	**1.2**	**13**	**mg/kg**	**SS-53: 0-2 ft BGS (10/29/2018)**	**7/7**	**--**	**13**	**3.1**	**N**	**Y**	**ASV**
7440-38-2	**Arsenic**	**8.3**	**33**	**mg/kg**	**SS-53: 0-2 ft BGS (10/29/2018)**	**7/7**	**--**	**33**	**0.68**	**C**	**Y**	**ASV**
7440-39-3	**Barium**	**160**	**3100**	**mg/kg**	**SS-48: 0.25-2.25 ft BGS (10/29/2018)**	**7/7**	**--**	**3100**	**1500**	**N**	**Y**	**ASV**
7440-41-7	Beryllium	0.45	3.3	mg/kg	SS-49: 0-2 ft BGS (10/29/2018)	7/7	--	3.3	16	N	N	BSV
7440-43-9	**Cadmium**	**0.63**	**11**	**mg/kg**	**SS-48: 0.25-2.25 ft BGS (10/29/2018)**	**7/7**	**--**	**11**	**7.1**	**N**	**Y**	**ASV**
7440-70-2	Calcium	2200	110000	mg/kg	SS-48: 0.25-2.25 ft BGS (10/29/2018)	7/7	--	110000	--		N	NAT
16065-83-1	Chromium III (trivalent)	21	200	mg/kg	SS-51: 0.25-2.25 ft BGS (10/29/2018)	7/7	--	200	12000	N	N	BSV

Table 21

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU14 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU14 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Metals (cont.'d)											
18540-29-9	**Chromium VI (hexavalent)**	**0.55 J**	**1.2**	**mg/kg**	**SS-51: 0.25-2.25 ft BGS (10/29/2018)**	**4/7**	**0.28 - 1.3**	**1.2**	**0.3**	**C**	**Y**	**ASV**
7440-48-4	**Cobalt**	**5.1**	**17**	**mg/kg**	**SS-51: 0.25-2.25 ft BGS (10/29/2018)**	**7/7**	**--**	**17**	**2.3**	**N**	**Y**	**ASV**
7440-50-8	**Copper**	**62**	**2400**	**mg/kg**	**SS-48: 0.25-2.25 ft BGS (10/29/2018)**	**7/7**	**--**	**2400**	**310**	**N**	**Y**	**ASV**
57-12-5	**Cyanide (total)**	**0.56 J**	**13**	**mg/kg**	**SS-51: 0.25-2.25 ft BGS (10/29/2018)**	**4/7**	**0.21 - 0.29**	**13**	**2.3**	**N**	**Y**	**ASV**
7439-89-6	**Iron**	**16000**	**71000**	**mg/kg**	**SS-48: 0.25-2.25 ft BGS (10/29/2018)**	**7/7**	**--**	**71000**	**5500**	**N**	**Y**	**ASV**
7439-92-1	**Lead**	**22**	**4200**	**mg/kg**	**SS-48: 0.25-2.25 ft BGS (10/29/2018)**	**7/7**	**--**	**4200**	**400**	**C**	**Y**	**ASV**
7439-92-1	**Lead - coarse fraction**	**3600**	**47000**	**mg/kg**	**SS-50: 0.17-2.17 ft BGS (10/29/2018)**	**2/2**	**--**	**47000**	**400**	**C**	**Y**	**ASV**
7439-92-1	**Lead - fine fraction**	**3600**	**28000**	**mg/kg**	**SS-50: 0.17-2.17 ft BGS (10/29/2018)**	**2/2**	**--**	**28000**	**400**	**C**	**Y**	**ASV**
7439-92-1	**Lead - total (calculated by fine/coarse fraction)**	**3600**	**43000**	**mg/kg**	**SS-50: 0.17-2.17 ft BGS (10/29/2018)**	**2/2**	**--**	**43000**	**400**	**C**	**Y**	**ASV**
7439-95-4	Magnesium	680	44000	mg/kg	SS-50: 0.17-2.17 ft BGS (10/29/2018)	7/7	--	44000	--		N	NAT
7439-96-5	**Manganese**	**230**	**880**	**mg/kg**	**SS-51: 0.25-2.25 ft BGS (10/29/2018)**	**7/7**	**--**	**880**	**180**	**N**	**Y**	**ASV**
7439-97-6	Mercury	0.19	0.62	mg/kg	SS-51: 0.25-2.25 ft BGS (10/29/2018)	7/7	--	0.62	1.1	N	N	BSV
7440-02-0	Nickel	17	110	mg/kg	SS-48: 0.25-2.25 ft BGS (10/29/2018)	7/7	--	110	150	N	N	BSV
7440-09-7	Potassium	360	1300	mg/kg	SS-49: 0-2 ft BGS (10/29/2018)	7/7	--	1300	--		N	NAT
7782-49-2	Selenium	0.73 J	5.6	mg/kg	SS-49: 0-2 ft BGS (10/29/2018)	7/7	--	5.6	39	N	N	BSV
7440-22-4	Silver	0.072 J	6.5	mg/kg	SS-51: 0.25-2.25 ft BGS (10/29/2018)	7/7	--	6.5	39	N	N	BSV
7440-23-5	Sodium	140 J	330	mg/kg	SS-48: 0.25-2.25 ft BGS (10/29/2018)	7/7	--	330	--		N	NAT
7440-28-0	**Thallium**	**0.11 J**	**0.49**	**mg/kg**	**SS-49: 0-2 ft BGS (10/29/2018)**	**7/7**	**--**	**0.49**	**0.078**	**N**	**Y**	**ASV**
7440-62-2	**Vanadium**	**13**	**46**	**mg/kg**	**SS-49: 0-2 ft BGS (10/29/2018)**	**7/7**	**--**	**46**	**39**	**N**	**Y**	**ASV**
7440-66-6	**Zinc**	**58**	**3000**	**mg/kg**	**SS-48: 0.25-2.25 ft BGS (10/29/2018)**	**7/7**	**--**	**3000**	**2300**	**N**	**Y**	**ASV**
	Polychlorinated Biphenyls											
12674-11-2	Aroclor-1016 (PCB-1016)	ND	ND	µg/kg	--	0/7	24 - 490	N/A	410	N	N	ND
11104-28-2	Aroclor-1221 (PCB-1221)	ND	ND	µg/kg	--	0/7	27 - 530	N/A	200	C	N	ND
11141-16-5	Aroclor-1232 (PCB-1232)	ND	ND	µg/kg	--	0/7	25 - 510	N/A	170	C	N	ND
53469-21-9	**Aroclor-1242 (PCB-1242)**	**370**	**370**	**µg/kg**	**SS-53: 0-2 ft BGS (10/29/2018)**	**1/7**	**21 - 420**	**370**	**230**	**C**	**Y**	**ASV**
12672-29-6	Aroclor-1248 (PCB-1248)	ND	ND	µg/kg	--	0/7	27 - 530	N/A	230	C	N	ND
11097-69-1	**Aroclor-1254 (PCB-1254)**	**54 J**	**620**	**µg/kg**	**SS-53: 0-2 ft BGS (10/29/2018)**	**5/7**	**35 - 510**	**620**	**120**	**C**	**Y**	**ASV**
11096-82-5	**Aroclor-1260 (PCB-1260)**	**250 J**	**14000**	**µg/kg**	**SS-50: 0.17-2.17 ft BGS (10/29/2018)**	**2/7**	**24 - 29**	**14000**	**240**	**C**	**Y**	**ASV**
	Pesticides											
72-54-8	4,4'-DDD	9.5 NJ	9.5 NJ	µg/kg	SS-51: 0.25-2.25 ft BGS (10/29/2018)	1/7	2 - 82	9.5 NJ	190	C	N	BSV
72-55-9	4,4'-DDE	9.4 NJ	53	µg/kg	SS-51: 0.25-2.25 ft BGS (10/29/2018)	3/7	2 - 83	53	2000	C	N	BSV
50-29-3	4,4'-DDT	51 J	74	µg/kg	SS-51: 0.25-2.25 ft BGS (10/29/2018)	3/7	1.5 - 62	74	1900	C	N	BSV
309-00-2	Aldrin	ND	ND	µg/kg	--	0/7	1 - 42	N/A	39	C	N	ND
319-84-6	alpha-BHC	ND	ND	µg/kg	--	0/7	1.2 - 50	N/A	86	C	N	ND
5103-71-9	alpha-Chlordane	ND	ND	µg/kg	--	0/7	2 - 83	N/A	1700	C	N	ND
319-85-7	beta-BHC	ND	ND	µg/kg	--	0/7	2.3 - 95	N/A	300	C	N	ND
319-86-8	delta-BHC	ND	ND	µg/kg	--	0/7	2.2 - 93	N/A	300	C	N	ND
60-57-1	Dieldrin	ND	ND	µg/kg	--	0/7	1.5 - 61	N/A	34	C	N	ND

Table 21

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU14 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU14 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Pesticides (cont.'d)											
959-98-8	Endosulfan I	ND	ND	µg/kg	--	0/7	1.6 - 66	N/A	47000	N	N	ND
33213-65-9	Endosulfan II	ND	ND	µg/kg	--	0/7	2 - 82	N/A	47000	N	N	ND
1031-07-8	Endosulfan sulfate	ND	ND	µg/kg	--	0/7	1.7 - 71	N/A	47000	N	N	ND
72-20-8	Endrin	ND	ND	µg/kg	--	0/7	2.5 - 100	N/A	1900	N	N	ND
7421-93-4	Endrin aldehyde	ND	ND	µg/kg	--	0/7	1.7 - 72	N/A	1900	N	N	ND
53494-70-5	Endrin ketone	ND	ND	µg/kg	--	0/7	1.2 - 49	N/A	1900	N	N	ND
58-89-9	gamma-BHC (lindane)	ND	ND	µg/kg	--	0/7	2.4 - 99	N/A	570	C	N	ND
5103-74-2	gamma-Chlordane	ND	ND	µg/kg	--	0/7	1.6 - 68	N/A	1700	C	N	ND
76-44-8	Heptachlor	ND	ND	µg/kg	--	0/7	2.1 - 87	N/A	130	C	N	ND
1024-57-3	Heptachlor epoxide	ND	ND	µg/kg	--	0/7	1.9 - 79	N/A	70	C	N	ND
72-43-5	Methoxychlor	ND	ND	µg/kg	--	0/7	8.7 - 360	N/A	32000	N	N	ND
8001-35-2	Toxaphene	ND	ND	µg/kg	--	0/7	33 - 1400	N/A	490	C	N	ND
	Herbicides											
93-76-5	2,4,5-T	ND	ND	µg/kg	--	0/1	16	N/A	63000	N	N	ND
93-72-1	2,4,5-TP (Silvex)	ND	ND	µg/kg	--	0/1	17	N/A	51000	N	N	ND
94-75-7	2,4-Dichlorophenoxyacetic acid (2,4-D)	ND	ND	µg/kg	--	0/1	61	N/A	70000	N	N	ND
	Asbestos											
1332-21-4	Asbestos	ND	ND	%	--	0/2	0.25	N/A	--		N	ND

Notes:

(1) Minimum/maximum detected concentration.
(2) Based on data collected from sampling locations: BH68-13, SS-46, SS-47, SS-48, SS-49, SS-50, SS-51, SS-52, SS-53, SS-169-AS, SS-170-AS.
(3) Regional Screening Level (RSL) Summary Table (TR = 1E-06, HI = 0.1) , Residential Soil, November 2018.
(4) Rationale Codes

Selection Reason: Maximum detected above Screening Value (ASV)
Analyte Detected and no Screening Value available (AD)
Deletion Reason: Maximum detected below Screening Value (BSV)
Naturally Occurring (NAT)

(5) No screening value available, surrogate screening value implemented as follows:

Chemical		Surrogate
1,3-dichlorobenzene	-	1,2-dichlorobenzene
methyl cyclohexane	-	cyclohexane
3&4-methylphenol	-	3-methylphenol
acenaphthylene	-	acenaphthene
benzo(g,h,i)perylene	-	pyrene
phenanthrene	-	pyrene
dimethylphthalate	-	diethylphthalate

Defintions:

-- = Not Available
N = Noncarcinogen
C = Carcinogen
Y = Yes
N = No
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.

Table 22

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU14 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU14 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Volatile Organic Compounds											
71-55-6	1,1,1-Trichloroethane	ND	ND	µg/kg	--	0/15	0.2 - 680	N/A	810000	N	N	ND
79-34-5	1,1,2,2-Tetrachloroethane	ND	ND	µg/kg	--	0/13	0.23 - 680	N/A	600	C	N	ND
79-00-5	1,1,2-Trichloroethane	ND	ND	µg/kg	--	0/15	0.35 - 680	N/A	150	N	N	ND
75-34-3	**1,1-Dichloroethane**	**1.1 J**	**240 J**	**µg/kg**	**TT-9: 7 ft BGS (10/3/2008)**	**7/15**	**0.29 - 270**	**240 J**	**3.6**	**C**	**Y**	**ASV**
75-35-4	1,1-Dichloroethene	0.89 J	4.6 J	µg/kg	TT-8: 4 ft BGS (10/6/2008)	1/15	0.48 - 680	4.6 J	23000	N	N	BSV
120-82-1	1,2,4-Trichlorobenzene	ND	ND	µg/kg	--	0/13	0.21 - 680	N/A	5800	N	N	ND
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	ND	µg/kg	--	0/13	0.6 - 1400	N/A	5.3	C	N	ND
106-93-4	1,2-Dibromoethane (Ethylene dibromide)	ND	ND	µg/kg	--	0/15	0.31 - 680	N/A	36	C	N	ND
95-50-1	1,2-Dichlorobenzene	ND	ND	µg/kg	--	0/13	0.2 - 680	N/A	180000	N	N	ND
107-06-2	1,2-Dichloroethane	4.3 J	4.3 J	µg/kg	SS-50: 0.17-2.17 ft BGS (10/29/2018)	1/15	0.26 - 680	4.3 J	460	C	N	BSV
78-87-5	1,2-Dichloropropane	ND	ND	µg/kg	--	0/15	0.27 - 680	N/A	1600	N	N	ND
541-73-1	1,3-Dichlorobenzene	ND	ND	µg/kg	--	0/13	0.26 - 680	N/A	180000 (5)	N	N	ND
106-46-7	1,4-Dichlorobenzene	100 J	100 J	µg/kg	TT-9: 7 ft BGS (10/3/2008)	1/13	0.31 - 680	100 J	2600	C	N	BSV
78-93-3	2-Butanone (Methyl ethyl ketone) (MEK)	2.8 J	540 J	µg/kg	SS-49: 0-2 ft BGS (10/29/2018)	7/16	1.1 - 1100	540 J	2700000	N	N	BSV
591-78-6	2-Hexanone	ND	ND	µg/kg	--	0/15	0.51 - 2700	N/A	20000	N	N	ND
108-10-1	4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	860 J	1000 J	µg/kg	TT-9: 7 ft BGS (10/3/2008)	2/15	0.79 - 1100	1000 J	3300000	N	N	BSV
67-64-1	Acetone	14 J	510 J	µg/kg	SS-47: 0-2 ft BGS (11/2/2018)	3/15	2.7 - 2700	510 J	6100000	N	N	BSV
71-43-2	Benzene	0.43 J	310 J	µg/kg	SS-49: 0-2 ft BGS (10/29/2018)	6/15	0.31 - 270	310 J	1200	C	N	BSV
75-27-4	Bromodichloromethane	ND	ND	µg/kg	--	0/15	0.29 - 680	N/A	290	C	N	ND
75-25-2	Bromoform	ND	ND	µg/kg	--	0/15	0.35 - 680	N/A	19000	C	N	ND
74-83-9	Bromomethane (Methyl bromide)	ND	ND	µg/kg	--	0/15	0.52 - 680	N/A	680	N	N	ND
75-15-0	Carbon disulfide	0.83 J	110 J	µg/kg	TT-9: 17 ft BGS (10/3/2008)	2/15	0.19 - 580	110 J	77000	N	N	BSV
56-23-5	Carbon tetrachloride	ND	ND	µg/kg	--	0/15	0.22 - 680	N/A	650	C	N	ND
108-90-7	Chlorobenzene	2000	4000	µg/kg	TT-9: 7 ft BGS (10/3/2008)	3/15	0.29 - 270	4000	28000	N	N	BSV
75-00-3	Chloroethane	4.3 J	4.3 J	µg/kg	TT-8: 4 ft BGS (10/6/2008)	1/15	0.34 - 680	4.3 J	1400000	N	N	BSV
67-66-3	Chloroform (Trichloromethane)	ND	ND	µg/kg	--	0/15	0.2 - 680	N/A	320	C	N	ND
74-87-3	Chloromethane (Methyl chloride)	ND	ND	µg/kg	--	0/15	0.34 - 680	N/A	11000	N	N	ND
156-59-2	cis-1,2-Dichloroethene	0.63 J	890	µg/kg	TT-9: 7 ft BGS (10/3/2008)	9/15	0.25 - 270	890	16000	N	N	BSV
10061-01-5	cis-1,3-Dichloropropene	ND	ND	µg/kg	--	0/15	0.23 - 680	N/A	1800	C	N	ND
110-82-7	Cyclohexane	0.74 J	160 J	µg/kg	TT-9: 17 ft BGS (10/3/2008)	2/15	0.19 - 1200	160 J	650000	N	N	BSV
124-48-1	Dibromochloromethane	ND	ND	µg/kg	--	0/15	0.27 - 680	N/A	8300	C	N	ND
75-71-8	Dichlorodifluoromethane (CFC-12)	ND	ND	µg/kg	--	0/15	0.31 - 680	N/A	8700	N	N	ND
100-41-4	**Ethylbenzene**	**0.35 J**	**15000**	**µg/kg**	**TT-9: 7 ft BGS (10/3/2008)**	**6/15**	**0.36 - 270**	**15000**	**5800**	**C**	**Y**	**ASV**
98-82-8	Isopropyl benzene	110 J	2500	µg/kg	TT-9: 17 ft BGS (10/3/2008)	3/15	0.18 - 270	2500	190000	N	N	BSV
79-20-9	Methyl acetate	150 J	1300 J	µg/kg	TT-9: 17 ft BGS (10/3/2008)	3/15	1 - 1400	1300 J	7800000	N	N	BSV
108-87-2	Methyl cyclohexane	0.29 J	1100 J	µg/kg	TT-9: 17 ft BGS (10/3/2008)	8/15	0.2 - 110	1100 J	650000 (5)	N	N	BSV
1634-04-4	Methyl tert butyl ether (MTBE)	0.62 J	0.62 J	µg/kg	TT-8: 4 ft BGS (10/6/2008)	1/15	0.24 - 2700	0.62 J	47000	C	N	BSV
75-09-2	Methylene chloride	260 J	260 J	µg/kg	TT-9: 7 ft BGS (10/3/2008)	1/15	0.57 - 1000	260 J	35000	N	N	BSV
100-42-5	Styrene	ND	ND	µg/kg	--	0/15	0.24 - 680	N/A	600000	N	N	ND
127-18-4	Tetrachloroethene	0.34 J	67 J	µg/kg	SS-47: 0-2 ft BGS (11/2/2018)	3/16	0.35 - 680	67 J	8100	N	N	BSV
108-88-3	Toluene	0.65 J	5300	µg/kg	TT-9: 7 ft BGS (10/3/2008)	8/15	0.45 - 120	5300	490000	N	N	BSV

Table 22

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU14 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU14 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Volatile Organic Compounds (cont.'d)											
156-60-5	trans-1,2-Dichloroethene	2.2 J	24 J	µg/kg	SS-47: 0-2 ft BGS (11/2/2018)	3/15	0.34 - 680	24 J	160000	N	N	BSV
10061-02-6	trans-1,3-Dichloropropene	ND	ND	µg/kg	--	0/15	0.19 - 680	N/A	1800	C	N	ND
79-01-6	**Trichloroethene**	**2.7 J**	**6400**	**µg/kg**	**SS-48: 0.25-2.25 ft BGS (10/29/2018)**	**14/16**	**4.7 - 36**	**6400**	**410**	**N**	**Y**	**ASV**
75-69-4	Trichlorofluoromethane (CFC-11)	ND	ND	µg/kg	--	0/15	0.21 - 680	N/A	2300000	N	N	ND
76-13-1	Trifluorotrichloroethane (CFC-113)	ND	ND	µg/kg	--	0/15	0.43 - 680	N/A	670000	N	N	ND
75-01-4	**Vinyl chloride**	**1.6 J**	**410 J**	**µg/kg**	**SS-49: 0-2 ft BGS (10/29/2018)**	**6/15**	**0.25 - 270**	**410 J**	**59**	**C**	**Y**	**ASV**
1330-20-7	Xylenes (total)	0.71 J	27000	µg/kg	TT-9: 7 ft BGS (10/3/2008)	10/15	0.53 - 38	27000	58000	N	N	BSV
	Semi-Volatiles Organic Compounds											
108-60-1	2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ND	ND	µg/kg	--	0/13	13 - 1300	N/A	310000	N	N	ND
95-95-4	2,4,5-Trichlorophenol	ND	ND	µg/kg	--	0/13	40 - 1900	N/A	630000	N	N	ND
88-06-2	2,4,6-Trichlorophenol	ND	ND	µg/kg	--	0/13	14 - 1900	N/A	6300	N	N	ND
120-83-2	2,4-Dichlorophenol	ND	ND	µg/kg	--	0/13	32 - 1900	N/A	19000	N	N	ND
105-67-9	2,4-Dimethylphenol	ND	ND	µg/kg	--	0/13	32 - 1900	N/A	130000	N	N	ND
51-28-5	2,4-Dinitrophenol	ND	ND	µg/kg	--	0/13	33 - 4200	N/A	13000	N	N	ND
121-14-2	2,4-Dinitrotoluene	ND	ND	µg/kg	--	0/13	27 - 2600	N/A	1700	C	N	ND
606-20-2	2,6-Dinitrotoluene	ND	ND	µg/kg	--	0/13	33 - 2600	N/A	360	C	N	ND
91-58-7	2-Chloronaphthalene	ND	ND	µg/kg	--	0/13	0.71 - 640	N/A	480000	N	N	ND
95-57-8	2-Chlorophenol	ND	ND	µg/kg	--	0/13	13 - 640	N/A	39000	N	N	ND
91-57-6	2-Methylnaphthalene	52	720	µg/kg	SS-49: 0-2 ft BGS (10/29/2018)	9/13	5.4 - 30	720	240000	N	N	BSV
95-48-7	2-Methylphenol	ND	ND	µg/kg	--	0/13	17 - 2600	N/A	320000	N	N	ND
88-74-4	2-Nitroaniline	ND	ND	µg/kg	--	0/13	14 - 2600	N/A	63000	n	N	ND
88-75-5	2-Nitrophenol	ND	ND	µg/kg	--	0/13	13 - 640	N/A	--		N	ND
3/4-Cresol	3&4-Methylphenol	210 J	210 J	µg/kg	SS-49: 0-2 ft BGS (10/29/2018)	1/9	32 - 220	210 J	320000 (5)	N	N	BSV
91-94-1	3,3'-Dichlorobenzidine	ND	ND	µg/kg	--	0/13	29 - 1300	N/A	1200	c	N	ND
99-09-2	3-Nitroaniline	ND	ND	µg/kg	--	0/13	25 - 2600	N/A	--		N	ND
106-44-5	4-Methylphenol	ND	ND	µg/kg	--	0/4	210 - 2600	N/A	630000	N	N	ND
534-52-1	4,6-Dinitro-2-methylphenol	ND	ND	µg/kg	--	0/13	15 - 1900	N/A	510	N	N	ND
101-55-3	4-Bromophenyl phenyl ether	ND	ND	µg/kg	--	0/13	18 - 640	N/A	--		N	ND
59-50-7	4-Chloro-3-methylphenol	ND	ND	µg/kg	--	0/13	33 - 1900	N/A	630000	N	N	ND
106-47-8	4-Chloroaniline	ND	ND	µg/kg	--	0/13	27 - 1900	N/A	2700	C	N	ND
7005-72-3	4-Chlorophenyl phenyl ether	ND	ND	µg/kg	--	0/13	18 - 640	N/A	--		N	ND
100-01-6	4-Nitroaniline	ND	ND	µg/kg	--	0/13	41 - 2600	N/A	25000	N	N	ND
100-02-7	4-Nitrophenol	ND	ND	µg/kg	--	0/13	27 - 4200	N/A	--		N	ND
83-32-9	Acenaphthene	14	72	µg/kg	SS-51: 0.25-2.25 ft BGS (10/29/2018)	6/13	6.9 - 85	72	360000	N	N	BSV
208-96-8	Acenaphthylene	14 J	310	µg/kg	SS-48: 0.25-2.25 ft BGS (10/29/2018)	7/13	3.8 - 85	310	360000 (5)	N	N	BSV
98-86-2	Acetophenone	38 J	48 J	µg/kg	SS-48: 0.25-2.25 ft BGS (10/29/2018)	2/13	15 - 1300	48 J	780000	N	N	BSV
120-12-7	Anthracene	36	250	µg/kg	SS-51: 0.25-2.25 ft BGS (10/29/2018)	7/13	6.9 - 85	250	1800000	N	N	BSV
1912-24-9	Atrazine	ND	ND	µg/kg	--	0/13	14 - 2600	N/A	2400	C	N	ND
100-52-7	Benzaldehyde	140	140	µg/kg	SS-48: 0.25-2.25 ft BGS (10/29/2018)	1/13	19 - 1300	140	170000	N	N	BSV
56-55-3	**Benzo(a)anthracene**	**59**	**1700**	**µg/kg**	**SS-48: 0.25-2.25 ft BGS (10/29/2018)**	**9/13**	**6.9 - 85**	**1700**	**1100**	**C**	**Y**	**ASV**
50-32-8	**Benzo(a)pyrene**	**39**	**2000**	**µg/kg**	**SS-48: 0.25-2.25 ft BGS (10/29/2018)**	**9/13**	**6.9 - 85**	**2000**	**110**	**C**	**Y**	**ASV**

Table 22

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU14 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU14 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Semi-Volatiles Organic Compounds (cont.'d)											
205-99-2	**Benzo(b)fluoranthene**	**61**	**3000**	**µg/kg**	**SS-48: 0.25-2.25 ft BGS (10/29/2018)**	**9/13**	**6.4 - 85**	**3000**	**1100**	**C**	**Y**	**ASV**
191-24-2	Benzo(g,h,i)perylene	46	1900	µg/kg	SS-48: 0.25-2.25 ft BGS (10/29/2018)	9/13	3.8 - 85	1900	180000 (5)	N	N	BSV
207-08-9	Benzo(k)fluoranthene	88	1200	µg/kg	SS-48: 0.25-2.25 ft BGS (10/29/2018)	7/13	6.9 - 85	1200	11000	C	N	BSV
92-52-4	Biphenyl (1,1-Biphenyl)	14 J	97	µg/kg	SS-49: 0-2 ft BGS (10/29/2018)	3/13	38 - 640	97	4700	N	N	BSV
111-91-1	bis(2-Chloroethoxy)methane	ND	ND	µg/kg	--	0/13	15 - 1300	N/A	19000	N	N	ND
111-44-4	bis(2-Chloroethyl)ether	ND	ND	µg/kg	--	0/13	3.2 - 1300	N/A	230	C	N	ND
117-81-7	bis(2-Ethylhexyl)phthalate (DEHP)	74 J	1900	µg/kg	SS-50: 0.17-2.17 ft BGS (10/29/2018)	7/13	52 - 340	1900	39000	C	N	BSV
85-68-7	Butyl benzylphthalate (BBP)	200	250 J	µg/kg	SS-50: 0.17-2.17 ft BGS (10/29/2018)	2/13	16 - 640	250 J	290000	C	N	BSV
105-60-2	Caprolactam	ND	ND	µg/kg	--	0/13	59 - 4200	N/A	3100000	N	N	ND
86-74-8	**Carbazole**	**60 J**	**120**	**µg/kg**	**SS-51: 0.25-2.25 ft BGS (10/29/2018)**	**4/13**	**29 - 640**	**120**	**--**		**Y**	**AD**
218-01-9	Chrysene	94	2000	µg/kg	SS-48: 0.25-2.25 ft BGS (10/29/2018)	9/13	6.9 - 85	2000	110000	C	N	BSV
53-70-3	**Dibenz(a,h)anthracene**	**37**	**510**	**µg/kg**	**SS-48: 0.25-2.25 ft BGS (10/29/2018)**	**5/13**	**6.9 - 85**	**510**	**110**	**C**	**Y**	**ASV**
132-64-9	Dibenzofuran	32 J	120	µg/kg	SS-49: 0-2 ft BGS (10/29/2018)	6/13	7.2 - 640	120	7300	N	N	BSV
84-66-2	Diethyl phthalate	ND	ND	µg/kg	--	0/13	25 - 640	N/A	5100000	N	N	ND
131-11-3	Dimethyl phthalate	ND	ND	µg/kg	--	0/13	18 - 640	N/A	5100000 (5)	N	N	ND
84-74-2	Di-n-butylphthalate (DBP)	45 J	71 J	µg/kg	SS-48: 0.25-2.25 ft BGS (10/29/2018)	2/13	24 - 640	71 J	630000	N	N	BSV
117-84-0	Di-n-octyl phthalate (DnOP)	ND	ND	µg/kg	--	0/13	13 - 640	N/A	63000	N	N	ND
206-44-0	Fluoranthene	110	2000	µg/kg	SS-51: 0.25-2.25 ft BGS (10/29/2018)	9/13	6 - 85	2000	240000	N	N	BSV
86-73-7	Fluorene	17	67	µg/kg	SS-51: 0.25-2.25 ft BGS (10/29/2018)	6/13	5.8 - 85	67	240000	N	N	BSV
118-74-1	Hexachlorobenzene	ND	ND	µg/kg	--	0/13	3.3 - 85	N/A	210	C	N	ND
87-68-3	Hexachlorobutadiene	ND	ND	µg/kg	--	0/13	8.9 - 640	N/A	1200	C	N	ND
77-47-4	Hexachlorocyclopentadiene	ND	ND	µg/kg	--	0/13	13 - 4200	N/A	180	N	N	ND
67-72-1	Hexachloroethane	ND	ND	µg/kg	--	0/13	11 - 640	N/A	1800	C	N	ND
193-39-5	**Indeno(1,2,3-cd)pyrene**	**18 J**	**1700**	**µg/kg**	**SS-48: 0.25-2.25 ft BGS (10/29/2018)**	**9/13**	**3.8 - 85**	**1700**	**1100**	**C**	**Y**	**ASV**
78-59-1	Isophorone	ND	ND	µg/kg	--	0/13	15 - 640	N/A	570000	C	N	ND
91-20-3	Naphthalene	28	810	µg/kg	TT-9: 7 ft BGS (10/3/2008)	9/13	6.9 - 30	810	3800	C	N	BSV
98-95-3	Nitrobenzene	ND	ND	µg/kg	--	0/13	3.5 - 1300	N/A	5100	C	N	ND
621-64-7	N-Nitrosodi-n-propylamine	ND	ND	µg/kg	--	0/13	10 - 640	N/A	78	C	N	ND
86-30-6	N-Nitrosodiphenylamine	ND	ND	µg/kg	--	0/13	15 - 640	N/A	110000	C	N	ND
87-86-5	Pentachlorophenol	ND	ND	µg/kg	--	0/13	14 - 1900	N/A	1000	C	N	ND
85-01-8	Phenanthrene	45 J	1100	µg/kg	SS-51: 0.25-2.25 ft BGS (10/29/2018)	10/13	6.9 - 85	1100	180000 (5)	N	N	BSV
108-95-2	Phenol	37 J	87 J	µg/kg	SS-46: 0-2 ft BGS (10/30/2018)	3/13	12 - 640	87 J	1900000	N	N	BSV
129-00-0	Pyrene	110	2000	µg/kg	SS-48: 0.25-2.25 ft BGS (10/29/2018)	9/13	4.8 - 85	2000	180000	N	N	BSV
	Metals											
7429-90-5	**Aluminum**	**2100**	**9200**	**mg/kg**	**SS-51: 0.25-2.25 ft BGS (10/29/2018)**	**13/13**	**--**	**9200**	**7700**	**N**	**Y**	**ASV**
7440-36-0	**Antimony**	**1.2**	**13**	**mg/kg**	**SS-53: 0-2 ft BGS (10/29/2018)**	**12/13**	**6.2**	**13**	**3.1**	**N**	**Y**	**ASV**
7440-38-2	**Arsenic**	**1.5**	**35**	**mg/kg**	**TT-9: 7 ft BGS (10/3/2008)**	**13/13**	**--**	**35**	**0.68**	**C**	**Y**	**ASV**
7440-39-3	**Barium**	**10.1 J**	**3100**	**mg/kg**	**SS-48: 0.25-2.25 ft BGS (10/29/2018)**	**13/13**	**--**	**3100**	**1500**	**N**	**Y**	**ASV**
7440-41-7	Beryllium	0.19	3.3	mg/kg	SS-49: 0-2 ft BGS (10/29/2018)	12/13	0.52	3.3	16	N	N	BSV
7440-43-9	**Cadmium**	**0.15 J**	**13**	**mg/kg**	**BH105-18: 8.5-10.5 ft BGS (1/17/2018)**	**13/13**	**--**	**13**	**7.1**	**N**	**Y**	**ASV**
7440-70-2	Calcium	1670 J	140000	mg/kg	BH106-18: 13-15 ft BGS (1/17/2018)	13/13	--	140000	--		N	NAT

Table 22

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU14 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU14 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Metals (cont.'d)											
16065-83-1	Chromium III (trivalent)	4.5	200	mg/kg	SS-51: 0.25-2.25 ft BGS (10/29/2018)	13/13	--	200	12000	N	N	BSV
18540-29-9	**Chromium VI (hexavalent)**	**0.55 J**	**8.6**	**mg/kg**	**TT-8: 4 ft BGS (10/6/2008)**	**9/13**	**0.28 - 1.9**	**8.6**	**0.3**	**C**	**Y**	**ASV**
7440-48-4	**Cobalt**	**2.3 J**	**17**	**mg/kg**	**SS-51: 0.25-2.25 ft BGS (10/29/2018)**	**13/13**	**--**	**17**	**2.3**	**N**	**Y**	**ASV**
7440-50-8	**Copper**	**7.2**	**2400**	**mg/kg**	**SS-48: 0.25-2.25 ft BGS (10/29/2018)**	**13/13**	**--**	**2400**	**310**	**N**	**Y**	**ASV**
57-12-5	**Cyanide (total)**	**0.27 J**	**13**	**mg/kg**	**SS-51: 0.25-2.25 ft BGS (10/29/2018)**	**7/13**	**0.055 - 0.64**	**13**	**2.3**	**N**	**Y**	**ASV**
7439-89-6	**Iron**	**5820**	**71000**	**mg/kg**	**SS-48: 0.25-2.25 ft BGS (10/29/2018)**	**13/13**	**--**	**71000**	**5500**	**N**	**Y**	**ASV**
7439-92-1	**Lead**	**4.6 J**	**4200**	**mg/kg**	**SS-48: 0.25-2.25 ft BGS (10/29/2018)**	**13/13**	**--**	**4200**	**400**	**C**	**Y**	**ASV**
7439-92-1	**Lead - coarse fraction**	**3600**	**47000**	**mg/kg**	**SS-50: 0.17-2.17 ft BGS (10/29/2018)**	**2/2**	**--**	**47000**	**400**	**C**	**Y**	**ASV**
7439-92-1	**Lead - fine fraction**	**3600**	**28000**	**mg/kg**	**SS-50: 0.17-2.17 ft BGS (10/29/2018)**	**2/2**	**--**	**28000**	**400**	**C**	**Y**	**ASV**
7439-92-1	**Lead - total (calculated by fine/coarse fraction)**	**3600**	**43000**	**mg/kg**	**SS-50: 0.17-2.17 ft BGS (10/29/2018)**	**2/2**	**--**	**43000**	**400**	**C**	**Y**	**ASV**
7439-95-4	Magnesium	652 J	63000	mg/kg	BH106-18: 13-15 ft BGS (1/17/2018)	13/13	--	63000	--		N	NAT
7439-96-5	**Manganese**	**88.1**	**880**	**mg/kg**	**SS-51: 0.25-2.25 ft BGS (10/29/2018)**	**13/13**	**--**	**880**	**180**	**N**	**Y**	**ASV**
7439-97-6	Mercury	0.12 J	0.62	mg/kg	SS-51: 0.25-2.25 ft BGS (10/29/2018)	11/13	0.022 - 0.1	0.62	1.1	N	N	BSV
7440-02-0	Nickel	6.8 J	110	mg/kg	SS-48: 0.25-2.25 ft BGS (10/29/2018)	13/13	--	110	150	N	N	BSV
7440-09-7	Potassium	313 J	1300	mg/kg	SS-49: 0-2 ft BGS (10/29/2018)	13/13	--	1300	--		N	NAT
7782-49-2	Selenium	0.32 J	7.2 J	mg/kg	TT-9: 7 ft BGS (10/3/2008)	12/13	25.9 - 28.4	7.2 J	39	N	N	BSV
7440-22-4	Silver	0.072 J	6.5	mg/kg	SS-51: 0.25-2.25 ft BGS (10/29/2018)	9/13	0.02 - 1.9	6.5	39	N	N	BSV
7440-23-5	Sodium	106 J	596	mg/kg	TT-8: 4 ft BGS (10/6/2008)	12/13	160	596	--		N	NAT
7440-28-0	**Thallium**	**0.11 J**	**0.98**	**mg/kg**	**TT-9: 17 ft BGS (10/3/2008)**	**11/13**	**0.1 - 0.64**	**0.98**	**0.078**	**N**	**Y**	**ASV**
7440-62-2	**Vanadium**	**8.4**	**46**	**mg/kg**	**SS-49: 0-2 ft BGS (10/29/2018)**	**13/13**	**--**	**46**	**39**	**N**	**Y**	**ASV**
7440-66-6	**Zinc**	**23.2**	**3000**	**mg/kg**	**SS-48: 0.25-2.25 ft BGS (10/29/2018)**	**13/13**	**--**	**3000**	**2300**	**N**	**Y**	**ASV**
	Polychlorinated Biphenyls											
12674-11-2	Aroclor-1016 (PCB-1016)	ND	ND	µg/kg	--	0/13	24 - 490	N/A	410	N	N	ND
11104-28-2	Aroclor-1221 (PCB-1221)	ND	ND	µg/kg	--	0/13	26 - 530	N/A	200	C	N	ND
11141-16-5	Aroclor-1232 (PCB-1232)	ND	ND	µg/kg	--	0/13	25 - 510	N/A	170	C	N	ND
53469-21-9	**Aroclor-1242 (PCB-1242)**	**370**	**370**	**µg/kg**	**SS-53: 0-2 ft BGS (10/29/2018)**	**1/13**	**20 - 420**	**370**	**230**	**C**	**Y**	**ASV**
12672-29-6	**Aroclor-1248 (PCB-1248)**	**430**	**430**	**µg/kg**	**TT-8: 4 ft BGS (10/6/2008)**	**1/13**	**26 - 530**	**430**	**230**	**C**	**Y**	**ASV**
11097-69-1	**Aroclor-1254 (PCB-1254)**	**54 J**	**3700**	**µg/kg**	**TT-9: 7 ft BGS (10/3/2008)**	**7/13**	**25 - 510**	**3700**	**120**	**C**	**Y**	**ASV**
11096-82-5	**Aroclor-1260 (PCB-1260)**	**250 J**	**14000**	**µg/kg**	**SS-50: 0.17-2.17 ft BGS (10/29/2018)**	**3/13**	**24 - 420**	**14000**	**240**	**C**	**Y**	**ASV**
	Pesticides											
72-54-8	4,4'-DDD	9.5 NJ	9.5 NJ	µg/kg	SS-51: 0.25-2.25 ft BGS (10/29/2018)	1/13	2 - 200	9.5 NJ	190	C	N	BSV
72-55-9	4,4'-DDE	9.4 NJ	220	µg/kg	TT-9: 7 ft BGS (10/3/2008)	5/13	1.3 - 200	220	2000	C	N	BSV
50-29-3	4,4'-DDT	21 J	74	µg/kg	SS-51: 0.25-2.25 ft BGS (10/29/2018)	4/13	1.5 - 200	74	1900	C	N	BSV
309-00-2	Aldrin	ND	ND	µg/kg	--	0/13	1 - 200	N/A	39	C	N	ND
319-84-6	alpha-BHC	ND	ND	µg/kg	--	0/13	1.2 - 200	N/A	86	C	N	ND
5103-71-9	alpha-Chlordane	ND	ND	µg/kg	--	0/13	2 - 200	N/A	1700	C	N	ND
319-85-7	beta-BHC	ND	ND	µg/kg	--	0/13	2.3 - 200	N/A	300	C	N	ND
319-86-8	delta-BHC	ND	ND	µg/kg	--	0/13	2.1 - 200	N/A	300	C	N	ND
60-57-1	**Dieldrin**	**12 J**	**270 J**	**µg/kg**	**TT-9: 7 ft BGS (10/3/2008)**	**2/13**	**0.97 - 200**	**270 J**	**34**	**C**	**Y**	**ASV**
959-98-8	Endosulfan I	ND	ND	µg/kg	--	0/13	1.4 - 200	N/A	47000	N	N	ND
33213-65-9	Endosulfan II	ND	ND	µg/kg	--	0/13	1.9 - 200	N/A	47000	N	N	ND
1031-07-8	Endosulfan sulfate	ND	ND	µg/kg	--	0/13	1.7 - 200	N/A	47000	N	N	ND

Table 22

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU14 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU14 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Pesticides (cont.'d)											
72-20-8	Endrin	ND	ND	µg/kg	--	0/13	1.5 - 200	N/A	1900	N	N	ND
7421-93-4	Endrin aldehyde	28 J	28 J	µg/kg	TT-9: 7 ft BGS (10/3/2008)	1/13	1.7 - 200	28 J	1900	N	N	BSV
53494-70-5	Endrin ketone	19 J	28 J	µg/kg	TT-9: 7 ft BGS (10/3/2008)	2/13	1.2 - 200	28 J	1900	N	N	BSV
58-89-9	gamma-BHC (lindane)	ND	ND	µg/kg	--	0/13	2.4 - 200	N/A	570	C	N	ND
5103-74-2	gamma-Chlordane	2.6 NJ	180 J	µg/kg	TT-9: 7 ft BGS (10/3/2008)	3/13	1.6 - 200	180 J	1700	C	N	BSV
76-44-8	Heptachlor	ND	ND	µg/kg	--	0/13	0.84 - 200	N/A	130	C	N	ND
1024-57-3	Heptachlor epoxide	27 J	27 J	µg/kg	TT-9: 7 ft BGS (10/3/2008)	1/13	1.9 - 200	27 J	70	C	N	BSV
72-43-5	Methoxychlor	ND	ND	µg/kg	--	0/13	1.3 - 380	N/A	32000	N	N	ND
8001-35-2	Toxaphene	ND	ND	µg/kg	--	0/13	33 - 7800	N/A	490	C	N	ND
	Herbicides											
93-76-5	2,4,5-T	ND	ND	µg/kg	--	0/1	16	N/A	63000	N	N	ND
93-72-1	2,4,5-TP (Silvex)	ND	ND	µg/kg	--	0/5	17 - 38	N/A	51000	N	N	ND
94-75-7	2,4-Dichlorophenoxyacetic acid (2,4-D)	ND	ND	µg/kg	--	0/5	61 - 150	N/A	70000	N	N	ND
	Dioxins/Furans											
39001-02-0	1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	25	25	pg/g	BH105-18: 8.5-10.5 ft BGS (1/17/2018)	1/1	--	25	--			Refer to Total TEQ
3268-87-9	1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	380	380	pg/g	BH105-18: 8.5-10.5 ft BGS (1/17/2018)	1/1	--	380	--			Refer to Total TEQ
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	48	48	pg/g	BH105-18: 8.5-10.5 ft BGS (1/17/2018)	1/1	--	48	--			Refer to Total TEQ
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	52	52	pg/g	BH105-18: 8.5-10.5 ft BGS (1/17/2018)	1/1	--	52	--			Refer to Total TEQ
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	3.0 J	3.0 J	pg/g	BH105-18: 8.5-10.5 ft BGS (1/17/2018)	1/1	--	3.0 J	--			Refer to Total TEQ
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	11 J	11 J	pg/g	BH105-18: 8.5-10.5 ft BGS (1/17/2018)	1/1	--	11 J	--			Refer to Total TEQ
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	1.7 J	1.7 J	pg/g	BH105-18: 8.5-10.5 ft BGS (1/17/2018)	1/1	--	1.7 J	--			Refer to Total TEQ
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	7.9 J	7.9 J	pg/g	BH105-18: 8.5-10.5 ft BGS (1/17/2018)	1/1	--	7.9 J	--			Refer to Total TEQ
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	6.9 J	6.9 J	pg/g	BH105-18: 8.5-10.5 ft BGS (1/17/2018)	1/1	--	6.9 J	--			Refer to Total TEQ
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	ND	ND	pg/g	--	0/1	1.1	N/A	--			Refer to Total TEQ
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	5.6 J	5.6 J	pg/g	BH105-18: 8.5-10.5 ft BGS (1/17/2018)	1/1	--	5.6 J	--			Refer to Total TEQ
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	2.8 J	2.8 J	pg/g	BH105-18: 8.5-10.5 ft BGS (1/17/2018)	1/1	--	2.8 J	--			Refer to Total TEQ
40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	2.1 J	2.1 J	pg/g	BH105-18: 8.5-10.5 ft BGS (1/17/2018)	1/1	--	2.1 J	--			Refer to Total TEQ
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	6.0 J	6.0 J	pg/g	BH105-18: 8.5-10.5 ft BGS (1/17/2018)	1/1	--	6.0 J	--			Refer to Total TEQ
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	5.1 J	5.1 J	pg/g	BH105-18: 8.5-10.5 ft BGS (1/17/2018)	1/1	--	5.1 J	--			Refer to Total TEQ
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran (TCDF)	17	17	pg/g	BH105-18: 8.5-10.5 ft BGS (1/17/2018)	1/1	--	17	--			Refer to Total TEQ
1746-01-6	2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	ND	ND	pg/g	--	0/1	0.96	N/A	--			Refer to Total TEQ
38998-75-3	Total heptachlorodibenzofuran (HpCDF)	82 J	82 J	pg/g	BH105-18: 8.5-10.5 ft BGS (1/17/2018)	1/1	--	82 J	--			Refer to Total TEQ
37871-00-4	Total heptachlorodibenzo-p-dioxin (HpCDD)	98 J	98 J	pg/g	BH105-18: 8.5-10.5 ft BGS (1/17/2018)	1/1	--	98 J	--			Refer to Total TEQ
55684-94-1	Total hexachlorodibenzofuran (HxCDF)	110 J	110 J	pg/g	BH105-18: 8.5-10.5 ft BGS (1/17/2018)	1/1	--	110 J	--			Refer to Total TEQ
34465-46-8	Total hexachlorodibenzo-p-dioxin (HxCDD)	59 J	59 J	pg/g	BH105-18: 8.5-10.5 ft BGS (1/17/2018)	1/1	--	59 J	--			Refer to Total TEQ
30402-15-4	Total pentachlorodibenzofuran (PeCDF)	180 J	180 J	pg/g	BH105-18: 8.5-10.5 ft BGS (1/17/2018)	1/1	--	180 J	--			Refer to Total TEQ
36088-22-9	Total pentachlorodibenzo-p-dioxin (PeCDD)	24 J	24 J	pg/g	BH105-18: 8.5-10.5 ft BGS (1/17/2018)	1/1	--	24 J	--			Refer to Total TEQ
55722-27-5	Total tetrachlorodibenzofuran (TCDF)	270 J	270 J	pg/g	BH105-18: 8.5-10.5 ft BGS (1/17/2018)	1/1	--	270 J	--			Refer to Total TEQ
41903-57-5	Total tetrachlorodibenzo-p-dioxin (TCDD)	24 J	24 J	pg/g	BH105-18: 8.5-10.5 ft BGS (1/17/2018)	1/1	--	24 J	--			Refer to Total TEQ
TOTALTEQND0	Total TEQ (DL @ 0)	10.5855	10.5855	pg/g	BH105-18: 8.5-10.5 ft BGS (1/17/2018)	1/1	--	10.5855	4800	C	N	BSV
TOTALTEQND0.5	Total TEQ (DL @ Half)	11.0655	11.0655	pg/g	BH105-18: 8.5-10.5 ft BGS (1/17/2018)	1/1	--	11.0655	4800	C	N	BSV

Table 22

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU14 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU14 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)	COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Asbestos										
1332-21-4	Asbestos	ND	ND	%	--	0/5	0.25 - 1	N/A	--	N	ND

Notes:

(1) Minimum/maximum detected concentration.
(2) Based on data collected from sampling locations: BH68-13, SS-46, SS-47, SS-48, SS-49, SS-50, SS-51, SS-52, SS-53, SS-169-AS, SS-170-AS, BH105-18, BH106-18, GP30-18, GP31-18, TT-8, TT-9.
(3) Regional Screening Level (RSL) Summary Table (TR = 1E-06, HI = 0.1) , Residential Soil, November 2018.
(4) Rationale Codes

Selection Reason: Maximum detected above Screening Value (ASV)
Analyte Detected and no Screening Value available (AD)
Deletion Reason: Maximum detected below Screening Value (BSV)
Naturally Occurring (NAT)

(5) No screening value available, surrogate screening value implemented as follows:

Chemical		Surrogate
1,3-dichlorobenzene	-	1,2-dichlorobenzene
methyl cyclohexane	-	cyclohexane
3&4-methylphenol	-	3-methylphenol
acenaphthylene	-	acenaphthene
benzo(g,h,i)perylene	-	pyrene
phenanthrene	-	pyrene
dimethylphthalate	-	diethylphthalate

Defintions:

-- = Not Available
N = Noncarcinogen
C = Carcinogen
Y = Yes
N = No
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.

Table 23

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU15 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU15 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Volatile Organic Compounds											
71-55-6	1,1,1-Trichloroethane	ND	ND	µg/kg	--	0/10	0.8 - 350	N/A	810000	N	N	ND
79-34-5	1,1,2,2-Tetrachloroethane	ND	ND	µg/kg	--	0/8	1.4 - 350	N/A	600	C	N	ND
79-00-5	1,1,2-Trichloroethane	ND	ND	µg/kg	--	0/10	1.1 - 350	N/A	150	N	N	ND
75-34-3	**1,1-Dichloroethane**	**5.3 J**	**5.3 J**	**µg/kg**	**SS-134: 0.92-2.92 ft BGS (10/29/2018)**	**1/11**	**0.68 - 350**	**5.3 J**	**3.6**	**C**	**Y**	**ASV**
75-35-4	1,1-Dichloroethene	ND	ND	µg/kg	--	0/10	0.88 - 350	N/A	23000	N	N	ND
120-82-1	1,2,4-Trichlorobenzene	ND	ND	µg/kg	--	0/8	0.56 - 350	N/A	5800	N	N	ND
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	ND	µg/kg	--	0/8	3.5 - 700	N/A	5.3	C	N	ND
106-93-4	1,2-Dibromoethane (Ethylene dibromide)	ND	ND	µg/kg	--	0/10	0.75 - 350	N/A	36	C	N	ND
95-50-1	1,2-Dichlorobenzene	ND	ND	µg/kg	--	0/8	1.1 - 350	N/A	180000	N	N	ND
107-06-2	1,2-Dichloroethane	ND	ND	µg/kg	--	0/10	0.75 - 350	N/A	460	C	N	ND
78-87-5	1,2-Dichloropropane	ND	ND	µg/kg	--	0/10	0.83 - 350	N/A	1600	N	N	ND
541-73-1	1,3-Dichlorobenzene	2.1 J	2.1 J	µg/kg	SS-134: 0.92-2.92 ft BGS (10/29/2018)	1/9	0.8 - 350	2.1 J	180000 (5)	N	N	BSV
106-46-7	1,4-Dichlorobenzene	ND	ND	µg/kg	--	0/8	0.86 - 350	N/A	2600	C	N	ND
78-93-3	2-Butanone (Methyl ethyl ketone) (MEK)	8.3 J	85 J	µg/kg	SS-132: 0.7-2.7 ft BGS (11/8/2017)	7/12	18 - 1400	85 J	2700000	N	N	BSV
591-78-6	2-Hexanone	ND	ND	µg/kg	--	0/10	4 - 1400	N/A	20000	N	N	ND
108-10-1	4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ND	ND	µg/kg	--	0/10	3.6 - 1400	N/A	3300000	N	N	ND
67-64-1	Acetone	ND	ND	µg/kg	--	0/10	18 - 1400	N/A	6100000	N	N	ND
71-43-2	Benzene	1.3 J	21 J	µg/kg	SS-134: 0.92-2.92 ft BGS (10/29/2018)	3/11	0.68 - 350	21 J	1200	C	N	BSV
75-27-4	Bromodichloromethane	ND	ND	µg/kg	--	0/10	0.66 - 350	N/A	290	C	N	ND
75-25-2	Bromoform	ND	ND	µg/kg	--	0/10	2.3 - 350	N/A	19000	C	N	ND
74-83-9	Bromomethane (Methyl bromide)	ND	ND	µg/kg	--	0/10	0.96 - 350	N/A	680	N	N	ND
75-15-0	Carbon disulfide	ND	ND	µg/kg	--	0/10	1.1 - 350	N/A	77000	N	N	ND
56-23-5	Carbon tetrachloride	ND	ND	µg/kg	--	0/10	3.2 - 350	N/A	650	C	N	ND
108-90-7	Chlorobenzene	ND	ND	µg/kg	--	0/10	0.89 - 350	N/A	28000	N	N	ND
75-00-3	Chloroethane	ND	ND	µg/kg	--	0/10	1.2 - 350	N/A	1400000	N	N	ND
67-66-3	Chloroform (Trichloromethane)	ND	ND	µg/kg	--	0/10	0.77 - 350	N/A	320	C	N	ND
74-87-3	Chloromethane (Methyl chloride)	ND	ND	µg/kg	--	0/10	1 - 350	N/A	11000	N	N	ND
156-59-2	cis-1,2-Dichloroethene	270 J	690	µg/kg	SS-136: 0-2 ft BGS (10/29/2018)	2/10	0.64 - 350	690	16000	N	N	BSV
10061-01-5	cis-1,3-Dichloropropene	ND	ND	µg/kg	--	0/10	1.4 - 350	N/A	1800	C	N	ND
110-82-7	Cyclohexane	46 J	46 J	µg/kg	SS-132: 0.7-2.7 ft BGS (11/8/2017)	1/10	1.3 - 700	46 J	650000	N	N	BSV
124-48-1	Dibromochloromethane	ND	ND	µg/kg	--	0/10	2.7 - 350	N/A	8300	C	N	ND
75-71-8	Dichlorodifluoromethane (CFC-12)	ND	ND	µg/kg	--	0/10	0.92 - 350	N/A	8700	N	N	ND
100-41-4	Ethylbenzene	ND	ND	µg/kg	--	0/10	1 - 350	N/A	5800	C	N	ND
98-82-8	Isopropyl benzene	85 J	85 J	µg/kg	SS-136: 0-2 ft BGS (10/29/2018)	1/10	0.81 - 350	85 J	190000	N	N	BSV
79-20-9	Methyl acetate	ND	ND	µg/kg	--	0/10	3.3 - 900	N/A	7800000	N	N	ND
108-87-2	Methyl cyclohexane	75 J	160 J	µg/kg	SS-132: 0.7-2.7 ft BGS (11/8/2017)	2/10	1.2 - 110	160 J	650000 (5)	N	N	BSV
1634-04-4	Methyl tert butyl ether (MTBE)	ND	ND	µg/kg	--	0/10	0.8 - 350	N/A	47000	C	N	ND
75-09-2	Methylene chloride	280 J	470 J	µg/kg	SS-132: 0.7-2.7 ft BGS (11/8/2017)	1/10	6.4 - 650	470 J	35000	N	N	BSV
100-42-5	Styrene	ND	ND	µg/kg	--	0/10	1.1 - 350	N/A	600000	N	N	ND
127-18-4	Tetrachloroethene	1.2 J	99 J	µg/kg	SS-135: 0.25-2.25 ft BGS (10/29/2018)	6/11	0.71 - 52	99 J	8100	N	N	BSV
108-88-3	Toluene	1.5 J	110 J	µg/kg	SS-132: 0.7-2.7 ft BGS (11/8/2017)	3/10	0.75 - 110	110 J	490000	N	N	BSV
156-60-5	trans-1,2-Dichloroethene	56 J	56 J	µg/kg	SS-136: 0-2 ft BGS (10/29/2018)	1/10	0.45 - 350	56 J	160000	N	N	BSV

Table 23

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU15 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU15 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Volatile Organic Compounds (cont.'d)											
10061-02-6	trans-1,3-Dichloropropene	ND	ND	µg/kg	--	0/10	1 - 350	N/A	1800	C	N	ND
79-01-6	**Trichloroethene**	**1.5 J**	**4300**	**µg/kg**	**BH51-13: 0-2 ft BGS (6/21/2013)**	**9/11**	**0.62 - 0.63**	**4300**	**410**	**N**	**Y**	**ASV**
75-69-4	Trichlorofluoromethane (CFC-11)	ND	ND	µg/kg	--	0/10	1.1 - 350	N/A	2300000	N	N	ND
76-13-1	Trifluorotrichloroethane (CFC-113)	ND	ND	µg/kg	--	0/10	1.3 - 350	N/A	670000	N	N	ND
75-01-4	Vinyl chloride	54 J	54 J	µg/kg	SS-136: 0-2 ft BGS (10/29/2018)	1/10	0.82 - 350	54 J	59	C	N	BSV
1330-20-7	Xylenes (total)	140 J	230 J	µg/kg	SS-136: 0-2 ft BGS (10/29/2018)	3/10	1.5 - 69	230 J	58000	N	N	BSV
	Semi-Volatiles Organic Compounds											
108-60-1	2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ND	ND	µg/kg	--	0/10	10 - 200	N/A	310000	N	N	ND
95-95-4	2,4,5-Trichlorophenol	ND	ND	µg/kg	--	0/10	71 - 1100	N/A	630000	N	N	ND
88-06-2	2,4,6-Trichlorophenol	ND	ND	µg/kg	--	0/10	64 - 990	N/A	6300	N	N	ND
120-83-2	2,4-Dichlorophenol	ND	ND	µg/kg	--	0/10	46 - 680	N/A	19000	N	N	ND
105-67-9	2,4-Dimethylphenol	ND	ND	µg/kg	--	0/10	41 - 620	N/A	130000	N	N	ND
51-28-5	2,4-Dinitrophenol	ND	ND	µg/kg	--	0/10	150 - 2200	N/A	13000	N	N	ND
121-14-2	2,4-Dinitrotoluene	ND	ND	µg/kg	--	0/10	64 - 960	N/A	1700	C	N	ND
606-20-2	2,6-Dinitrotoluene	ND	ND	µg/kg	--	0/10	58 - 870	N/A	360	C	N	ND
91-58-7	2-Chloronaphthalene	ND	ND	µg/kg	--	0/10	3.2 - 220	N/A	480000	N	N	ND
95-57-8	2-Chlorophenol	ND	ND	µg/kg	--	0/10	10 - 170	N/A	39000	N	N	ND
91-57-6	2-Methylnaphthalene	6.7 J	730	µg/kg	SS-133: 0.5-2.5 ft BGS (10/29/2018)	9/10	2.7	730	240000	N	N	BSV
95-48-7	2-Methylphenol	ND	ND	µg/kg	--	0/10	32 - 480	N/A	320000	N	N	ND
88-74-4	2-Nitroaniline	ND	ND	µg/kg	--	0/10	41 - 620	N/A	63000	n	N	ND
88-75-5	2-Nitrophenol	ND	ND	µg/kg	--	0/10	13 - 200	N/A	--		N	ND
3/4-Cresol	3&4-Methylphenol	ND	ND	µg/kg	--	0/10	30 - 450	N/A	320000 (5)	N	N	ND
91-94-1	3,3'-Dichlorobenzidine	ND	ND	µg/kg	--	0/10	45 - 670	N/A	1200	c	N	ND
99-09-2	3-Nitroaniline	ND	ND	µg/kg	--	0/10	51 - 760	N/A	--		N	ND
534-52-1	4,6-Dinitro-2-methylphenol	ND	ND	µg/kg	--	0/10	66 - 1200	N/A	510	N	N	ND
101-55-3	4-Bromophenyl phenyl ether	ND	ND	µg/kg	--	0/10	15 - 270	N/A	--		N	ND
59-50-7	4-Chloro-3-methylphenol	ND	ND	µg/kg	--	0/10	47 - 700	N/A	630000	N	N	ND
106-47-8	4-Chloroaniline	ND	ND	µg/kg	--	0/10	31 - 470	N/A	2700	C	N	ND
7005-72-3	4-Chlorophenyl phenyl ether	ND	ND	µg/kg	--	0/10	15 - 270	N/A	--		N	ND
100-01-6	4-Nitroaniline	ND	ND	µg/kg	--	0/10	62 - 930	N/A	25000	N	N	ND
100-02-7	4-Nitrophenol	ND	ND	µg/kg	--	0/10	97 - 1500	N/A	--		N	ND
83-32-9	Acenaphthene	4.9 J	1400 J	µg/kg	SS-132: 0.7-2.7 ft BGS (11/8/2017)	5/10	3 - 44	1400 J	360000	N	N	BSV
208-96-8	Acenaphthylene	5.7 J	97 J	µg/kg	SS-132: 0.7-2.7 ft BGS (11/8/2017)	7/10	4.2 - 62	97 J	360000 (5)	N	N	BSV
98-86-2	Acetophenone	110 J	110 J	µg/kg	SS-137: 0.17-2.17 ft BGS (10/29/2018)	1/10	11 - 190	110 J	780000	N	N	BSV
120-12-7	Anthracene	4.8 J	3600 J	µg/kg	SS-132: 0.7-2.7 ft BGS (11/8/2017)	8/10	3.3 - 37	3600 J	1800000	N	N	BSV
1912-24-9	Atrazine	ND	ND	µg/kg	--	0/10	37 - 560	N/A	2400	C	N	ND
100-52-7	Benzaldehyde	ND	ND	µg/kg	--	0/10	24 - 360	N/A	170000	N	N	ND
56-55-3	**Benzo(a)anthracene**	**34**	**9600**	**µg/kg**	**SS-132: 0.7-2.7 ft BGS (11/8/2017)**	**9/10**	**4.6**	**9600**	**1100**	**C**	**Y**	**ASV**
50-32-8	**Benzo(a)pyrene**	**34**	**8500**	**µg/kg**	**SS-132: 0.7-2.7 ft BGS (11/8/2017)**	**9/10**	**13**	**8500**	**110**	**C**	**Y**	**ASV**
205-99-2	**Benzo(b)fluoranthene**	**57**	**12000**	**µg/kg**	**SS-132: 0.7-2.7 ft BGS (11/8/2017)**	**9/10**	**8.8**	**12000**	**1100**	**C**	**Y**	**ASV**

Table 23

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU15 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU15 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Semi-Volatiles Organic Compounds (cont.'d)											
191-24-2	Benzo(g,h,i)perylene	46	6100	µg/kg	SS-132: 0.7-2.7 ft BGS (11/8/2017)	9/10	9.6	6100	180000 (5)	N	N	BSV
207-08-9	Benzo(k)fluoranthene	17	4200	µg/kg	SS-132: 0.7-2.7 ft BGS (11/8/2017)	9/10	9.4	4200	11000	C	N	BSV
92-52-4	Biphenyl (1,1-Biphenyl)	49 J	86 J	µg/kg	SS-132: 0.7-2.7 ft BGS (11/8/2017)	2/10	18 - 260	86 J	4700	N	N	BSV
111-91-1	bis(2-Chloroethoxy)methane	ND	ND	µg/kg	--	0/10	12 - 460	N/A	19000	N	N	ND
111-44-4	bis(2-Chloroethyl)ether	ND	ND	µg/kg	--	0/10	12 - 190	N/A	230	C	N	ND
117-81-7	bis(2-Ethylhexyl)phthalate (DEHP)	110 J	17000	µg/kg	SS-136: 0-2 ft BGS (10/29/2018)	4/10	53 - 400	17000	39000	C	N	BSV
85-68-7	Butyl benzylphthalate (BBP)	ND	ND	µg/kg	--	0/10	23 - 340	N/A	290000	C	N	ND
105-60-2	Caprolactam	ND	ND	µg/kg	--	0/10	78 - 1200	N/A	3100000	N	N	ND
86-74-8	**Carbazole**	**25 J**	**1500**	**µg/kg**	**SS-132: 0.7-2.7 ft BGS (11/8/2017)**	**4/10**	**20 - 290**	**1500**	**--**		**Y**	**AD**
218-01-9	Chrysene	44	9300	µg/kg	SS-132: 0.7-2.7 ft BGS (11/8/2017)	9/10	2	9300	110000	C	N	BSV
53-70-3	**Dibenz(a,h)anthracene**	**18**	**1600**	**µg/kg**	**SS-132: 0.7-2.7 ft BGS (11/8/2017)**	**6/10**	**7.3 - 110**	**1600**	**110**	**C**	**Y**	**ASV**
132-64-9	Dibenzofuran	14 J	780 J	µg/kg	SS-132: 0.7-2.7 ft BGS (11/8/2017)	7/10	14 - 200	780 J	7300	N	N	BSV
84-66-2	Diethyl phthalate	350 J	380	µg/kg	SS-131: 0-2 ft BGS (10/29/2018)	2/10	32 - 480	380	5100000	N	N	BSV
131-11-3	Dimethyl phthalate	ND	ND	µg/kg	--	0/10	15 - 360	N/A	5100000 (5)	N	N	ND
84-74-2	Di-n-butylphthalate (DBP)	27 J	360 J	µg/kg	SS-132: 0.7-2.7 ft BGS (11/8/2017)	3/10	23 - 340	360 J	630000	N	N	BSV
117-84-0	Di-n-octyl phthalate (DnOP)	ND	ND	µg/kg	--	0/10	29 - 430	N/A	63000	N	N	ND
206-44-0	Fluoranthene	51	21000	µg/kg	SS-132: 0.7-2.7 ft BGS (11/8/2017)	9/10	6	21000	240000	N	N	BSV
86-73-7	Fluorene	4.8 J	1300 J	µg/kg	SS-132: 0.7-2.7 ft BGS (11/8/2017)	6/10	2.9 - 43	1300 J	240000	N	N	BSV
118-74-1	Hexachlorobenzene	ND	ND	µg/kg	--	0/10	3 - 44	N/A	210	C	N	ND
87-68-3	Hexachlorobutadiene	ND	ND	µg/kg	--	0/10	12 - 190	N/A	1200	C	N	ND
77-47-4	Hexachlorocyclopentadiene	ND	ND	µg/kg	--	0/10	58 - 960	N/A	180	N	N	ND
67-72-1	Hexachloroethane	ND	ND	µg/kg	--	0/10	9.3 - 190	N/A	1800	C	N	ND
193-39-5	**Indeno(1,2,3-cd)pyrene**	**29**	**5300**	**µg/kg**	**SS-132: 0.7-2.7 ft BGS (11/8/2017)**	**9/10**	**10**	**5300**	**1100**	**C**	**Y**	**ASV**
78-59-1	Isophorone	ND	ND	µg/kg	--	0/10	12 - 270	N/A	570000	C	N	ND
91-20-3	Naphthalene	9.2 J	400	µg/kg	SS-133: 0.5-2.5 ft BGS (10/29/2018)	9/10	3.3	400	3800	C	N	BSV
98-95-3	Nitrobenzene	ND	ND	µg/kg	--	0/10	13 - 200	N/A	5100	C	N	ND
621-64-7	N-Nitrosodi-n-propylamine	ND	ND	µg/kg	--	0/10	11 - 170	N/A	78	C	N	ND
86-30-6	N-Nitrosodiphenylamine	ND	ND	µg/kg	--	0/10	12 - 440	N/A	110000	C	N	ND
87-86-5	Pentachlorophenol	ND	ND	µg/kg	--	0/10	60 - 900	N/A	1000	C	N	ND
85-01-8	Phenanthrene	35	13000	µg/kg	SS-132: 0.7-2.7 ft BGS (11/8/2017)	9/10	3	13000	180000 (5)	N	N	BSV
108-95-2	Phenol	ND	ND	µg/kg	--	0/10	8.3 - 150	N/A	1900000	N	N	ND
129-00-0	Pyrene	39	18000	µg/kg	SS-132: 0.7-2.7 ft BGS (11/8/2017)	9/10	2.9	18000	180000	N	N	BSV
	Metals											
7429-90-5	**Aluminum**	**2800**	**13000**	**mg/kg**	**SS-130: 0.25-2.25 ft BGS (10/29/2018)**	**10/10**	**--**	**13000**	**7700**	**N**	**Y**	**ASV**
7440-36-0	**Antimony**	**0.24 J**	**12**	**mg/kg**	**SS-136: 0-2 ft BGS (10/29/2018)**	**10/10**	**--**	**12**	**3.1**	**N**	**Y**	**ASV**
7440-38-2	**Arsenic**	**4.7**	**27**	**mg/kg**	**SS-132: 0.7-2.7 ft BGS (11/8/2017)**	**10/10**	**--**	**27**	**0.68**	**C**	**Y**	**ASV**
7440-39-3	**Barium**	**54**	**2900**	**mg/kg**	**SS-136: 0-2 ft BGS (10/29/2018)**	**10/10**	**--**	**2900**	**1500**	**N**	**Y**	**ASV**
7440-41-7	Beryllium	0.28	3.9	mg/kg	SS-134: 0.92-2.92 ft BGS (10/29/2018)	10/10	--	3.9	16	N	N	BSV
7440-43-9	**Cadmium**	**0.2**	**16**	**mg/kg**	**SS-136: 0-2 ft BGS (10/29/2018)**	**10/10**	**--**	**16**	**7.1**	**N**	**Y**	**ASV**
7440-70-2	Calcium	1500	130000	mg/kg	SS-131: 0-2 ft BGS (10/29/2018)	10/10	--	130000	--		N	NAT
16065-83-1	Chromium III (trivalent)	9	210	mg/kg	SS-136: 0-2 ft BGS (10/29/2018)	10/10	--	210	12000	N	N	BSV

Table 23

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU15 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU15 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Metals (cont.'d)											
18540-29-9	**Chromium VI (hexavalent)**	**0.74 J**	**6.9**	**mg/kg**	**SS-132: 0.7-2.7 ft BGS (11/8/2017)**	**6/10**	**0.25 - 1.5**	**6.9**	**0.3**	**C**	**Y**	**ASV**
7440-48-4	**Cobalt**	**3.2**	**29**	**mg/kg**	**SS-136: 0-2 ft BGS (10/29/2018)**	**10/10**	**--**	**29**	**2.3**	**N**	**Y**	**ASV**
7440-50-8	**Copper**	**17**	**2900**	**mg/kg**	**SS-136: 0-2 ft BGS (10/29/2018)**	**10/10**	**--**	**2900**	**310**	**N**	**Y**	**ASV**
57-12-5	**Cyanide (total)**	**0.62**	**41**	**mg/kg**	**SS-136: 0-2 ft BGS (10/29/2018)**	**3/10**	**0.2 - 2.8**	**41**	**2.3**	**N**	**Y**	**ASV**
7439-89-6	**Iron**	**8800**	**110000**	**mg/kg**	**SS-137: 0.17-2.17 ft BGS (10/29/2018)**	**10/10**	**--**	**110000**	**5500**	**N**	**Y**	**ASV**
7439-92-1	**Lead**	**15**	**2600 J**	**mg/kg**	**SS-132: 0.7-2.7 ft BGS (11/8/2017)**	**10/10**	**--**	**2600 J**	**400**	**C**	**Y**	**ASV**
7439-92-1	**Lead - coarse fraction**	**18**	**2000**	**mg/kg**	**SS-136: 0-2 ft BGS (10/29/2018)**	**3/3**	**--**	**2000**	**400**	**C**	**Y**	**ASV**
7439-92-1	**Lead - fine fraction**	**26**	**2700**	**mg/kg**	**SS-136: 0-2 ft BGS (10/29/2018)**	**3/3**	**--**	**2700**	**400**	**C**	**Y**	**ASV**
7439-92-1	**Lead - total (calculated by fine/coarse fraction)**	**19**	**2200**	**mg/kg**	**SS-136: 0-2 ft BGS (10/29/2018)**	**3/3**	**--**	**2200**	**400**	**C**	**Y**	**ASV**
7439-95-4	Magnesium	380	54000	mg/kg	SS-131: 0-2 ft BGS (10/29/2018)	10/10	--	54000	--		N	NAT
7439-96-5	**Manganese**	**34**	**1100**	**mg/kg**	**SS-132: 0.7-2.7 ft BGS (11/8/2017)**	**10/10**	**--**	**1100**	**180**	**N**	**Y**	**ASV**
7439-97-6	**Mercury**	**0.021 J**	**6.1**	**mg/kg**	**SS-130: 0.25-2.25 ft BGS (10/29/2018)**	**9/10**	**0.019**	**6.1**	**1.1**	**N**	**Y**	**ASV**
7440-02-0	Nickel	9.1	150	mg/kg	SS-136: 0-2 ft BGS (10/29/2018)	10/10	--	150	150	N	N	BSV
7440-09-7	Potassium	400	1300	mg/kg	SS-137: 0.17-2.17 ft BGS (10/29/2018)	10/10	--	1300	--		N	NAT
7782-49-2	Selenium	0.37 J	4.4	mg/kg	SS-134: 0.92-2.92 ft BGS (10/29/2018)	10/10	--	4.4	39	N	N	BSV
7440-22-4	Silver	0.043 J	8.2	mg/kg	SS-141: 0-2 ft BGS (10/29/2018)	10/10	--	8.2	39	N	N	BSV
7440-23-5	Sodium	64 J	560	mg/kg	SS-136: 0-2 ft BGS (10/29/2018)	10/10	--	560	--		N	NAT
7440-28-0	**Thallium**	**0.075 J**	**0.65**	**mg/kg**	**SS-134: 0.92-2.92 ft BGS (10/29/2018)**	**10/10**	**--**	**0.65**	**0.078**	**N**	**Y**	**ASV**
7440-62-2	**Vanadium**	**10**	**50**	**mg/kg**	**SS-136: 0-2 ft BGS (10/29/2018)**	**10/10**	**--**	**50**	**39**	**N**	**Y**	**ASV**
7440-66-6	**Zinc**	**45**	**5600**	**mg/kg**	**SS-136: 0-2 ft BGS (10/29/2018)**	**10/10**	**--**	**5600**	**2300**	**N**	**Y**	**ASV**
	Polychlorinated Biphenyls											
12674-11-2	Aroclor-1016 (PCB-1016)	ND	ND	µg/kg	--	0/10	22 - 240	N/A	410	N	N	ND
11104-28-2	Aroclor-1221 (PCB-1221)	ND	ND	µg/kg	--	0/10	24 - 260	N/A	200	C	N	ND
11141-16-5	**Aroclor-1232 (PCB-1232)**	**1100**	**1100**	**µg/kg**	**SS-141: 0-2 ft BGS (10/29/2018)**	**1/10**	**17 - 140**	**1100**	**170**	**C**	**Y**	**ASV**
53469-21-9	**Aroclor-1242 (PCB-1242)**	**1100**	**1100**	**µg/kg**	**SS-136: 0-2 ft BGS (10/29/2018)**	**1/10**	**19 - 200**	**1100**	**230**	**C**	**Y**	**ASV**
12672-29-6	**Aroclor-1248 (PCB-1248)**	**1300 J**	**1900 J**	**µg/kg**	**SS-132: 0.7-2.7 ft BGS (11/8/2017)**	**1/10**	**24 - 260**	**1900 J**	**230**	**C**	**Y**	**ASV**
11097-69-1	**Aroclor-1254 (PCB-1254)**	**86**	**1800**	**µg/kg**	**SS-136: 0-2 ft BGS (10/29/2018)**	**4/10**	**15 - 32**	**1800**	**120**	**C**	**Y**	**ASV**
11096-82-5	**Aroclor-1260 (PCB-1260)**	**44 J**	**1100 J**	**µg/kg**	**SS-132: 0.7-2.7 ft BGS (11/8/2017)**	**3/10**	**22 - 240**	**1100 J**	**240**	**C**	**Y**	**ASV**
	Pesticides											
72-54-8	4,4'-DDD	2.0 NJ	2.0 NJ	µg/kg	SS-130: 0.25-2.25 ft BGS (10/29/2018)	1/10	1.6 - 97	2.0 NJ	190	C	N	BSV
72-55-9	4,4'-DDE	2.3 J	20 NJ	µg/kg	SS-136: 0-2 ft BGS (10/29/2018)	2/10	1.6 - 99	20 NJ	2000	C	N	BSV
50-29-3	4,4'-DDT	6.2 J	6.2 J	µg/kg	SS-130: 0.25-2.25 ft BGS (10/29/2018)	1/10	1.2 - 74	6.2 J	1900	C	N	BSV
309-00-2	Aldrin	ND	ND	µg/kg	--	0/10	0.81 - 51	N/A	39	C	N	ND
319-84-6	alpha-BHC	ND	ND	µg/kg	--	0/10	0.95 - 60	N/A	86	C	N	ND
5103-71-9	alpha-Chlordane	ND	ND	µg/kg	--	0/10	1.6 - 99	N/A	1700	C	N	ND
319-85-7	beta-BHC	ND	ND	µg/kg	--	0/10	1.8 - 110	N/A	300	C	N	ND
319-86-8	delta-BHC	ND	ND	µg/kg	--	0/10	1.8 - 110	N/A	300	C	N	ND
60-57-1	Dieldrin	14 NJ	14 NJ	µg/kg	SS-136: 0-2 ft BGS (10/29/2018)	1/10	1.2 - 72	14 NJ	34	C	N	BSV

Table 23

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU15 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU15 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Pesticides (cont.'d)											
959-98-8	Endosulfan I	ND	ND	µg/kg	--	0/10	1.3 - 79	N/A	47000	N	N	ND
33213-65-9	Endosulfan II	ND	ND	µg/kg	--	0/10	1.6 - 97	N/A	47000	N	N	ND
1031-07-8	Endosulfan sulfate	ND	ND	µg/kg	--	0/10	1.3 - 84	N/A	47000	N	N	ND
72-20-8	Endrin	17 NJ	17 NJ	µg/kg	SS-132: 0.7-2.7 ft BGS (11/8/2017)	1/10	2 - 120	17 NJ	1900	N	N	BSV
7421-93-4	Endrin aldehyde	2.1 NJ	36 J	µg/kg	SS-132: 0.7-2.7 ft BGS (11/8/2017)	2/10	1.4 - 86	36 J	1900	N	N	BSV
53494-70-5	Endrin ketone	ND	ND	µg/kg	--	0/10	0.93 - 58	N/A	1900	N	N	ND
58-89-9	gamma-BHC (lindane)	ND	ND	µg/kg	--	0/10	1.9 - 120	N/A	570	C	N	ND
5103-74-2	gamma-Chlordane	ND	ND	µg/kg	--	0/10	1.3 - 81	N/A	1700	C	N	ND
76-44-8	Heptachlor	ND	ND	µg/kg	--	0/10	1.7 - 100	N/A	130	C	N	ND
1024-57-3	Heptachlor epoxide	9.6 NJ	9.6 NJ	µg/kg	SS-136: 0-2 ft BGS (10/29/2018)	1/10	1.5 - 95	9.6 NJ	70	C	N	BSV
72-43-5	Methoxychlor	20 NJ	20 NJ	µg/kg	SS-132: 0.7-2.7 ft BGS (11/8/2017)	1/10	6.9 - 430	20 NJ	32000	N	N	BSV
8001-35-2	Toxaphene	ND	ND	µg/kg	--	0/10	26 - 1600	N/A	490	C	N	ND
	Herbicides											
93-76-5	2,4,5-T	ND	ND	µg/kg	--	0/1	15	N/A	63000	N	N	ND
93-72-1	2,4,5-TP (Silvex)	ND	ND	µg/kg	--	0/1	16	N/A	51000	N	N	ND
94-75-7	2,4-Dichlorophenoxyacetic acid (2,4-D)	ND	ND	µg/kg	--	0/1	57	N/A	70000	N	N	ND
	Asbestos											
1332-21-4	Asbestos	ND	ND	%	--	0/2	0.25	N/A	--		N	ND
12001-29-5	Chrysotile asbestos	ND	ND	%	--	0/1	0.25	N/A	--		N	ND

Notes:

(1) Minimum/maximum detected concentration.
(2) Based on data collected from sampling locations: BH51-13, BH53-13, SS-125, SS-130, SS-131, SS-132, SS-133, SS-134, SS-135, SS-136, SS-137, SS-141, SS-143, SS-171-AS, SS-172-AS, SS-173-AS.
(3) Regional Screening Level (RSL) Summary Table (TR = 1E-06, HI = 0.1) , Residential Soil, November 2018.
(4) Rationale Codes
Selection Reason: Maximum detected above Screening Value (ASV)
Analyte Detected and no Screening Value available (AD)
Deletion Reason: Maximum detected below Screening Value (BSV)
Naturally Occurring (NAT)
(5) No screening value available, surrogate screening value implemented as follows:

Chemical		Surrogate
1,3-dichlorobenzene	-	1,2-dichlorobenzene
methyl cyclohexane	-	cyclohexane
3&4-methylphenol	-	3-methylphenol
acenaphthylene	-	acenaphthene
benzo(g,h,i)perylene	-	pyrene
phenanthrene	-	pyrene
dimethylphthalate	-	diethylphthalate

Defintions:

-- = Not Available
N = Noncarcinogen
C = Carcinogen
Y = Yes
N = No
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.

Table 24

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU15 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU15 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Volatile Organic Compounds											
71-55-6	1,1,1-Trichloroethane	ND	ND	µg/kg	--	0/19	0.21 - 430	N/A	810000	N	N	ND
79-34-5	1,1,2,2-Tetrachloroethane	ND	ND	µg/kg	--	0/17	0.23 - 430	N/A	600	C	N	ND
79-00-5	1,1,2-Trichloroethane	ND	ND	µg/kg	--	0/19	0.35 - 430	N/A	150	N	N	ND
75-34-3	**1,1-Dichloroethane**	**5.3 J**	**5.3 J**	**µg/kg**	**SS-134: 0.92-2.92 ft BGS (10/29/2018)**	**1/20**	**0.3 - 430**	**5.3 J**	**3.6**	**C**	**Y**	**ASV**
75-35-4	1,1-Dichloroethene	ND	ND	µg/kg	--	0/19	0.49 - 430	N/A	23000	N	N	ND
120-82-1	1,2,4-Trichlorobenzene	ND	ND	µg/kg	--	0/17	0.22 - 430	N/A	5800	N	N	ND
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	ND	µg/kg	--	0/17	0.61 - 860	N/A	5.3	C	N	ND
106-93-4	1,2-Dibromoethane (Ethylene dibromide)	ND	ND	µg/kg	--	0/19	0.32 - 430	N/A	36	C	N	ND
95-50-1	1,2-Dichlorobenzene	ND	ND	µg/kg	--	0/17	0.2 - 430	N/A	180000	N	N	ND
107-06-2	1,2-Dichloroethane	ND	ND	µg/kg	--	0/19	0.26 - 430	N/A	460	C	N	ND
78-87-5	1,2-Dichloropropane	ND	ND	µg/kg	--	0/19	0.28 - 430	N/A	1600	N	N	ND
541-73-1	1,3-Dichlorobenzene	2.1 J	2.1 J	µg/kg	SS-134: 0.92-2.92 ft BGS (10/29/2018)	1/18	0.26 - 430	2.1 J	180000 (5)	N	N	BSV
106-46-7	1,4-Dichlorobenzene	ND	ND	µg/kg	--	0/17	0.32 - 430	N/A	2600	C	N	ND
78-93-3	2-Butanone (Methyl ethyl ketone) (MEK)	2.9 J	85 J	µg/kg	SS-132: 0.7-2.7 ft BGS (11/8/2017)	10/21	1.2 - 1700	85 J	2700000	N	N	BSV
591-78-6	2-Hexanone	ND	ND	µg/kg	--	0/19	0.52 - 1700	N/A	20000	N	N	ND
108-10-1	4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ND	ND	µg/kg	--	0/19	0.8 - 1700	N/A	3300000	N	N	ND
67-64-1	Acetone	5.4 J	120 J	µg/kg	BH143-18: 10-12 ft BGS (1/23/2018)	3/20	2.8 - 130000	120 J	6100000	N	N	BSV
71-43-2	Benzene	0.62 J	21 J	µg/kg	SS-134: 0.92-2.92 ft BGS (10/29/2018)	4/20	0.29 - 430	21 J	1200	C	N	BSV
75-27-4	Bromodichloromethane	ND	ND	µg/kg	--	0/19	0.3 - 430	N/A	290	C	N	ND
75-25-2	Bromoform	ND	ND	µg/kg	--	0/19	0.36 - 430	N/A	19000	C	N	ND
74-83-9	Bromomethane (Methyl bromide)	ND	ND	µg/kg	--	0/19	0.53 - 430	N/A	680	N	N	ND
75-15-0	Carbon disulfide	1.3 J	1.8 J	µg/kg	BH143-18: 10-12 ft BGS (1/23/2018)	2/19	0.19 - 430	1.8 J	77000	N	N	BSV
56-23-5	Carbon tetrachloride	ND	ND	µg/kg	--	0/19	0.23 - 430	N/A	650	C	N	ND
108-90-7	Chlorobenzene	ND	ND	µg/kg	--	0/19	0.3 - 430	N/A	28000	N	N	ND
75-00-3	Chloroethane	ND	ND	µg/kg	--	0/19	0.34 - 430	N/A	1400000	N	N	ND
67-66-3	Chloroform (Trichloromethane)	ND	ND	µg/kg	--	0/19	0.21 - 430	N/A	320	C	N	ND
74-87-3	Chloromethane (Methyl chloride)	ND	ND	µg/kg	--	0/19	0.34 - 430	N/A	11000	N	N	ND
156-59-2	cis-1,2-Dichloroethene	0.36 J	1000	µg/kg	TT-43: 6-8 ft BGS (11/8/2017)	9/19	0.45 - 350	1000	16000	N	N	BSV
10061-01-5	cis-1,3-Dichloropropene	ND	ND	µg/kg	--	0/19	0.23 - 430	N/A	1800	C	N	ND
110-82-7	Cyclohexane	46 J	46 J	µg/kg	SS-132: 0.7-2.7 ft BGS (11/8/2017)	1/19	0.19 - 860	46 J	650000	N	N	BSV
124-48-1	Dibromochloromethane	ND	ND	µg/kg	--	0/19	0.27 - 430	N/A	8300	C	N	ND
75-71-8	Dichlorodifluoromethane (CFC-12)	ND	ND	µg/kg	--	0/19	0.32 - 430	N/A	8700	N	N	ND
100-41-4	**Ethylbenzene**	**260000 J**	**260000 J**	**µg/kg**	**BH55-13: 2-4 ft BGS (6/18/2013)**	**1/20**	**0.24 - 430**	**260000 J**	**5800**	**C**	**Y**	**ASV**
98-82-8	Isopropyl benzene	85 J	57000 J	µg/kg	BH55-13: 2-4 ft BGS (6/18/2013)	2/20	0.18 - 430	57000 J	190000	N	N	BSV
79-20-9	Methyl acetate	ND	ND	µg/kg	--	0/19	1.1 - 900	N/A	7800000	N	N	ND
108-87-2	Methyl cyclohexane	2.3 J	160 J	µg/kg	SS-132: 0.7-2.7 ft BGS (11/8/2017)	4/19	0.21 - 860	160 J	650000 (5)	N	N	BSV
1634-04-4	Methyl tert butyl ether (MTBE)	ND	ND	µg/kg	--	0/19	0.24 - 430	N/A	47000	C	N	ND
75-09-2	Methylene chloride	55	560	µg/kg	TT-43: 6-8 ft BGS (11/8/2017)	3/20	5 - 33000	560	35000	N	N	BSV
100-42-5	Styrene	ND	ND	µg/kg	--	0/19	0.24 - 430	N/A	600000	N	N	ND
127-18-4	Tetrachloroethene	1.2 J	99 J	µg/kg	SS-135: 0.25-2.25 ft BGS (10/29/2018)	6/20	0.33 - 430	99 J	8100	N	N	BSV
108-88-3	Toluene	0.59 J	95000 J	µg/kg	BH55-13: 2-4 ft BGS (6/18/2013)	9/20	0.31 - 110	95000 J	490000	N	N	BSV

Table 24

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU15 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU15 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Volatile Organic Compounds (cont.'d)											
156-60-5	trans-1,2-Dichloroethene	56 J	56 J	µg/kg	SS-136: 0-2 ft BGS (10/29/2018)	1/19	0.34 - 430	56 J	160000	N	N	BSV
10061-02-6	trans-1,3-Dichloropropene	ND	ND	µg/kg	--	0/19	0.19 - 430	N/A	1800	C	N	ND
79-01-6	**Trichloroethene**	**0.64 J**	**5200**	**µg/kg**	**TT-43: 6-8 ft BGS (11/8/2017)**	**15/20**	**0.38 - 0.72**	**5200**	**410**	**N**	**Y**	**ASV**
75-69-4	Trichlorofluoromethane (CFC-11)	ND	ND	µg/kg	--	0/19	0.22 - 430	N/A	2300000	N	N	ND
76-13-1	Trifluorotrichloroethane (CFC-113)	ND	ND	µg/kg	--	0/19	0.44 - 430	N/A	670000	N	N	ND
75-01-4	Vinyl chloride	1.9 J	54 J	µg/kg	SS-136: 0-2 ft BGS (10/29/2018)	2/19	0.25 - 430	54 J	59	C	N	BSV
1330-20-7	**Xylenes (total)**	**2.2 J**	**2000000 J**	**µg/kg**	**BH55-13: 2-4 ft BGS (6/18/2013)**	**6/20**	**0.36 - 860**	**2000000 J**	**58000**	**N**	**Y**	**ASV**
	Semi-Volatiles Organic Compounds											
108-60-1	2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ND	ND	µg/kg	--	0/15	10 - 250	N/A	310000	N	N	ND
95-95-4	2,4,5-Trichlorophenol	ND	ND	µg/kg	--	0/15	29 - 1100	N/A	630000	N	N	ND
88-06-2	2,4,6-Trichlorophenol	ND	ND	µg/kg	--	0/15	10 - 990	N/A	6300	N	N	ND
120-83-2	2,4-Dichlorophenol	ND	ND	µg/kg	--	0/15	23 - 680	N/A	19000	N	N	ND
105-67-9	2,4-Dimethylphenol	490 J	1400 J	µg/kg	BH143-18: 10-12 ft BGS (1/23/2018)	1/15	23 - 620	1400 J	130000	N	N	BSV
51-28-5	2,4-Dinitrophenol	ND	ND	µg/kg	--	0/15	24 - 2200	N/A	13000	N	N	ND
121-14-2	2,4-Dinitrotoluene	ND	ND	µg/kg	--	0/15	20 - 960	N/A	1700	C	N	ND
606-20-2	2,6-Dinitrotoluene	ND	ND	µg/kg	--	0/15	24 - 870	N/A	360	C	N	ND
91-58-7	2-Chloronaphthalene	ND	ND	µg/kg	--	0/15	0.52 - 220	N/A	480000	N	N	ND
95-57-8	2-Chlorophenol	ND	ND	µg/kg	--	0/15	9.6 - 220	N/A	39000	N	N	ND
91-57-6	2-Methylnaphthalene	6.7 J	730	µg/kg	SS-133: 0.5-2.5 ft BGS (10/29/2018)	12/15	0.58 - 9.9	730	240000	N	N	BSV
95-48-7	2-Methylphenol	88 J	330 J	µg/kg	BH143-18: 10-12 ft BGS (1/23/2018)	1/15	13 - 480	330 J	320000	N	N	BSV
88-74-4	2-Nitroaniline	ND	ND	µg/kg	--	0/15	11 - 620	N/A	63000	n	N	ND
88-75-5	2-Nitrophenol	ND	ND	µg/kg	--	0/15	9.7 - 220	N/A	--		N	ND
3/4-Cresol	3&4-Methylphenol	3900	23000	µg/kg	BH143-18: 10-12 ft BGS (1/23/2018)	1/14	23 - 450	23000	320000 (5)	N	N	BSV
91-94-1	3,3'-Dichlorobenzidine	890 J	890 J	µg/kg	BH143-18: 10-12 ft BGS (1/23/2018)	1/15	21 - 670	890 J	1200	c	N	BSV
99-09-2	3-Nitroaniline	ND	ND	µg/kg	--	0/15	19 - 760	N/A	--		N	ND
106-44-5	4-Methylphenol	ND	ND	µg/kg	--	0/1	300	N/A	630000	N	N	ND
534-52-1	4,6-Dinitro-2-methylphenol	ND	ND	µg/kg	--	0/15	11 - 1200	N/A	510	N	N	ND
101-55-3	4-Bromophenyl phenyl ether	ND	ND	µg/kg	--	0/15	15 - 350	N/A	--		N	ND
59-50-7	4-Chloro-3-methylphenol	ND	ND	µg/kg	--	0/15	24 - 700	N/A	630000	N	N	ND
106-47-8	4-Chloroaniline	ND	ND	µg/kg	--	0/15	20 - 470	N/A	2700	C	N	ND
7005-72-3	4-Chlorophenyl phenyl ether	ND	ND	µg/kg	--	0/15	15 - 350	N/A	--		N	ND
100-01-6	4-Nitroaniline	ND	ND	µg/kg	--	0/15	30 - 930	N/A	25000	N	N	ND
100-02-7	4-Nitrophenol	ND	ND	µg/kg	--	0/15	20 - 1500	N/A	--		N	ND
83-32-9	Acenaphthene	4.9 J	1400 J	µg/kg	SS-132: 0.7-2.7 ft BGS (11/8/2017)	7/15	0.89 - 44	1400 J	360000	N	N	BSV
208-96-8	Acenaphthylene	5.7 J	97 J	µg/kg	SS-132: 0.7-2.7 ft BGS (11/8/2017)	8/15	0.41 - 62	97 J	360000 (5)	N	N	BSV
98-86-2	Acetophenone	110 J	110 J	µg/kg	SS-137: 0.17-2.17 ft BGS (10/29/2018)	1/15	11 - 250	110 J	780000	N	N	BSV
120-12-7	Anthracene	4.4 J	3600 J	µg/kg	SS-132: 0.7-2.7 ft BGS (11/8/2017)	11/15	0.91 - 37	3600 J	1800000	N	N	BSV
1912-24-9	Atrazine	ND	ND	µg/kg	--	0/15	11 - 560	N/A	2400	C	N	ND
100-52-7	Benzaldehyde	92 J	92 J	µg/kg	BH143-18: 10-12 ft BGS (1/23/2018)	1/15	14 - 360	92 J	170000	N	N	BSV
56-55-3	**Benzo(a)anthracene**	**11**	**9600**	**µg/kg**	**SS-132: 0.7-2.7 ft BGS (11/8/2017)**	**12/15**	**0.73 - 9.9**	**9600**	**1100**	**C**	**Y**	**ASV**
50-32-8	**Benzo(a)pyrene**	**15**	**8500**	**µg/kg**	**SS-132: 0.7-2.7 ft BGS (11/8/2017)**	**12/15**	**0.75 - 13**	**8500**	**110**	**C**	**Y**	**ASV**

Table 24

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU15 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU15 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Semi-Volatiles Organic Compounds (cont.'d)											
205-99-2	**Benzo(b)fluoranthene**	**21**	**12000**	**µg/kg**	**SS-132: 0.7-2.7 ft BGS (11/8/2017)**	**12/15**	**0.69 - 9.9**	**12000**	**1100**	**C**	**Y**	**ASV**
191-24-2	Benzo(g,h,i)perylene	14	6100	µg/kg	SS-132: 0.7-2.7 ft BGS (11/8/2017)	12/15	0.41 - 9.9	6100	180000 (5)	N	N	BSV
207-08-9	Benzo(k)fluoranthene	8.2	4200	µg/kg	SS-132: 0.7-2.7 ft BGS (11/8/2017)	12/15	0.79 - 9.9	4200	11000	C	N	BSV
92-52-4	Biphenyl (1,1-Biphenyl)	34 J	160 J	µg/kg	BH143-18: 10-12 ft BGS (1/23/2018)	4/15	4.1 - 260	160 J	4700	N	N	BSV
111-91-1	bis(2-Chloroethoxy)methane	ND	ND	µg/kg	--	0/15	12 - 590	N/A	19000	N	N	ND
111-44-4	bis(2-Chloroethyl)ether	ND	ND	µg/kg	--	0/15	2.3 - 190	N/A	230	C	N	ND
117-81-7	bis(2-Ethylhexyl)phthalate (DEHP)	28 J	17000	µg/kg	SS-136: 0-2 ft BGS (10/29/2018)	6/15	22 - 510	17000	39000	C	N	BSV
85-68-7	Butyl benzylphthalate (BBP)	ND	ND	µg/kg	--	0/15	12 - 340	N/A	290000	C	N	ND
105-60-2	Caprolactam	ND	ND	µg/kg	--	0/15	43 - 1200	N/A	3100000	N	N	ND
86-74-8	**Carbazole**	**25 J**	**1500**	**µg/kg**	**SS-132: 0.7-2.7 ft BGS (11/8/2017)**	**5/15**	**20 - 720**	**1500**	**--**		**Y**	**AD**
218-01-9	Chrysene	16	9300	µg/kg	SS-132: 0.7-2.7 ft BGS (11/8/2017)	12/15	1.3 - 9.9	9300	110000	C	N	BSV
53-70-3	**Dibenz(a,h)anthracene**	**18**	**1600**	**µg/kg**	**SS-132: 0.7-2.7 ft BGS (11/8/2017)**	**7/15**	**0.77 - 110**	**1600**	**110**	**C**	**Y**	**ASV**
132-64-9	Dibenzofuran	14 J	780 J	µg/kg	SS-132: 0.7-2.7 ft BGS (11/8/2017)	9/15	0.77 - 200	780 J	7300	N	N	BSV
84-66-2	Diethyl phthalate	350 J	1100 J	µg/kg	BH143-18: 10-12 ft BGS (1/23/2018)	4/15	19 - 480	1100 J	5100000	N	N	BSV
131-11-3	Dimethyl phthalate	ND	ND	µg/kg	--	0/15	15 - 450	N/A	5100000 (5)	N	N	ND
84-74-2	Di-n-butylphthalate (DBP)	27 J	2400	µg/kg	BH143-18: 10-12 ft BGS (1/23/2018)	5/15	17 - 340	2400	630000	N	N	BSV
117-84-0	Di-n-octyl phthalate (DnOP)	ND	ND	µg/kg	--	0/15	9.2 - 430	N/A	63000	N	N	ND
206-44-0	Fluoranthene	33	21000	µg/kg	SS-132: 0.7-2.7 ft BGS (11/8/2017)	12/15	0.64 - 9.9	21000	240000	N	N	BSV
86-73-7	Fluorene	4.8 J	1300 J	µg/kg	SS-132: 0.7-2.7 ft BGS (11/8/2017)	9/15	0.62 - 43	1300 J	240000	N	N	BSV
118-74-1	Hexachlorobenzene	ND	ND	µg/kg	--	0/15	2.4 - 56	N/A	210	C	N	ND
87-68-3	Hexachlorobutadiene	ND	ND	µg/kg	--	0/15	6.5 - 190	N/A	1200	C	N	ND
77-47-4	Hexachlorocyclopentadiene	ND	ND	µg/kg	--	0/14	9.8 - 960	N/A	180	N	N	ND
67-72-1	Hexachloroethane	ND	ND	µg/kg	--	0/15	9.3 - 240	N/A	1800	C	N	ND
193-39-5	**Indeno(1,2,3-cd)pyrene**	**11**	**5300**	**µg/kg**	**SS-132: 0.7-2.7 ft BGS (11/8/2017)**	**12/15**	**0.41 - 10**	**5300**	**1100**	**C**	**Y**	**ASV**
78-59-1	Isophorone	ND	ND	µg/kg	--	0/15	12 - 350	N/A	570000	C	N	ND
91-20-3	Naphthalene	9.2 J	1700	µg/kg	BH143-18: 10-12 ft BGS (1/23/2018)	12/15	0.96 - 9.9	1700	3800	C	N	BSV
98-95-3	Nitrobenzene	ND	ND	µg/kg	--	0/15	2.6 - 200	N/A	5100	C	N	ND
621-64-7	N-Nitrosodi-n-propylamine	ND	ND	µg/kg	--	0/15	7.3 - 170	N/A	78	C	N	ND
86-30-6	N-Nitrosodiphenylamine	ND	ND	µg/kg	--	0/15	12 - 560	N/A	110000	C	N	ND
87-86-5	Pentachlorophenol	ND	ND	µg/kg	--	0/15	11 - 900	N/A	1000	C	N	ND
85-01-8	Phenanthrene	35	13000	µg/kg	SS-132: 0.7-2.7 ft BGS (11/8/2017)	12/15	0.85 - 9.9	13000	180000 (5)	N	N	BSV
108-95-2	Phenol	220 J	1400	µg/kg	BH143-18: 10-12 ft BGS (1/23/2018)	2/15	8.3 - 150	1400	1900000	N	N	BSV
129-00-0	Pyrene	26	18000	µg/kg	SS-132: 0.7-2.7 ft BGS (11/8/2017)	12/15	0.51 - 9.9	18000	180000	N	N	BSV
	Metals											
7429-90-5	**Aluminum**	**2800**	**21700**	**mg/kg**	**TT-23: 7 ft BGS (10/6/2008)**	**15/15**	**--**	**21700**	**7700**	**N**	**Y**	**ASV**
7440-36-0	**Antimony**	**0.23 J**	**70.1 J**	**mg/kg**	**TT-23: 7 ft BGS (10/6/2008)**	**15/15**	**--**	**70.1 J**	**3.1**	**N**	**Y**	**ASV**
7440-38-2	**Arsenic**	**4.7**	**54**	**mg/kg**	**BH143-18: 10-12 ft BGS (1/23/2018)**	**15/15**	**--**	**54**	**0.68**	**C**	**Y**	**ASV**
7440-39-3	**Barium**	**54**	**3500**	**mg/kg**	**TT-23: 7 ft BGS (10/6/2008)**	**15/15**	**--**	**3500**	**1500**	**N**	**Y**	**ASV**
7440-41-7	Beryllium	0.28	5.8	mg/kg	BH143-18: 10-12 ft BGS (1/23/2018)	15/15	--	5.8	16	N	N	BSV
7440-43-9	**Cadmium**	**0.2**	**16**	**mg/kg**	**SS-136: 0-2 ft BGS (10/29/2018)**	**15/15**	**--**	**16**	**7.1**	**N**	**Y**	**ASV**
7440-70-2	Calcium	1500	130000	mg/kg	SS-131: 0-2 ft BGS (10/29/2018)	15/15	--	130000	--		N	NAT

Table 24

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU15 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU15 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Metals (cont.'d)											
16065-83-1	Chromium III (trivalent)	9	926	mg/kg	TT-23: 7 ft BGS (10/6/2008)	15/15	--	926	12000	N	N	BSV
18540-29-9	**Chromium VI (hexavalent)**	**0.38 J**	**154**	**mg/kg**	**TT-23: 7 ft BGS (10/6/2008)**	**10/15**	**0.25 - 1.5**	**154**	**0.3**	**C**	**Y**	**ASV**
7440-48-4	**Cobalt**	**3.2**	**317**	**mg/kg**	**TT-23: 7 ft BGS (10/6/2008)**	**15/15**	**--**	**317**	**2.3**	**N**	**Y**	**ASV**
7440-50-8	**Copper**	**17**	**2900**	**mg/kg**	**SS-136: 0-2 ft BGS (10/29/2018)**	**15/15**	**--**	**2900**	**310**	**N**	**Y**	**ASV**
57-12-5	**Cyanide (total)**	**0.40 J**	**41**	**mg/kg**	**SS-136: 0-2 ft BGS (10/29/2018)**	**4/15**	**0.12 - 2.8**	**41**	**2.3**	**N**	**Y**	**ASV**
7439-89-6	**Iron**	**8800**	**110000**	**mg/kg**	**SS-137: 0.17-2.17 ft BGS (10/29/2018)**	**15/15**	**--**	**110000**	**5500**	**N**	**Y**	**ASV**
7439-92-1	**Lead**	**15**	**17700**	**mg/kg**	**TT-23: 7 ft BGS (10/6/2008)**	**15/15**	**--**	**17700**	**400**	**C**	**Y**	**ASV**
7439-92-1	**Lead - coarse fraction**	**18**	**2000**	**mg/kg**	**SS-136: 0-2 ft BGS (10/29/2018)**	**3/3**	**--**	**2000**	**400**	**C**	**Y**	**ASV**
7439-92-1	**Lead - fine fraction**	**26**	**2700**	**mg/kg**	**SS-136: 0-2 ft BGS (10/29/2018)**	**3/3**	**--**	**2700**	**400**	**C**	**Y**	**ASV**
7439-92-1	**Lead - total (calculated by fine/coarse fraction)**	**19**	**2200**	**mg/kg**	**SS-136: 0-2 ft BGS (10/29/2018)**	**3/3**	**--**	**2200**	**400**	**C**	**Y**	**ASV**
7439-95-4	Magnesium	380	54000	mg/kg	SS-131: 0-2 ft BGS (10/29/2018)	15/15	--	54000	--		N	NAT
7439-96-5	**Manganese**	**34**	**1100**	**mg/kg**	**SS-132: 0.7-2.7 ft BGS (11/8/2017)**	**15/15**	**--**	**1100**	**180**	**N**	**Y**	**ASV**
7439-97-6	**Mercury**	**0.021 J**	**6.1**	**mg/kg**	**SS-130: 0.25-2.25 ft BGS (10/29/2018)**	**13/15**	**0.019 - 0.024**	**6.1**	**1.1**	**N**	**Y**	**ASV**
7440-02-0	Nickel	9.1	150	mg/kg	SS-136: 0-2 ft BGS (10/29/2018)	15/15	--	150	150	N	N	BSV
7440-09-7	Potassium	400	1680	mg/kg	TT-23: 7 ft BGS (10/6/2008)	15/15	--	1680	--		N	NAT
7782-49-2	Selenium	0.37 J	21	mg/kg	BH143-18: 10-12 ft BGS (1/23/2018)	15/15	--	21	39	N	N	BSV
7440-22-4	Silver	0.036 J	8.2	mg/kg	SS-141: 0-2 ft BGS (10/29/2018)	15/15	--	8.2	39	N	N	BSV
7440-23-5	Sodium	64 J	2970	mg/kg	TT-23: 7 ft BGS (10/6/2008)	14/15	58	2970	--		N	NAT
7440-28-0	**Thallium**	**0.075 J**	**1.4**	**mg/kg**	**BH143-18: 10-12 ft BGS (1/23/2018)**	**14/15**	**3.7**	**1.4**	**0.078**	**N**	**Y**	**ASV**
7440-62-2	**Vanadium**	**10**	**73**	**mg/kg**	**BH143-18: 10-12 ft BGS (1/23/2018)**	**15/15**	**--**	**73**	**39**	**N**	**Y**	**ASV**
7440-66-6	**Zinc**	**31**	**19600**	**mg/kg**	**TT-23: 7 ft BGS (10/6/2008)**	**15/15**	**--**	**19600**	**2300**	**N**	**Y**	**ASV**
	Polychlorinated Biphenyls											
12674-11-2	Aroclor-1016 (PCB-1016)	ND	ND	µg/kg	--	0/15	22 - 310	N/A	410	N	N	ND
11104-28-2	Aroclor-1221 (PCB-1221)	ND	ND	µg/kg	--	0/15	24 - 340	N/A	200	C	N	ND
11141-16-5	**Aroclor-1232 (PCB-1232)**	**1100**	**1100**	**µg/kg**	**SS-141: 0-2 ft BGS (10/29/2018)**	**1/15**	**17 - 330**	**1100**	**170**	**C**	**Y**	**ASV**
53469-21-9	**Aroclor-1242 (PCB-1242)**	**230 J**	**1100**	**µg/kg**	**SS-136: 0-2 ft BGS (10/29/2018)**	**2/15**	**19 - 270**	**1100**	**230**	**C**	**Y**	**ASV**
12672-29-6	**Aroclor-1248 (PCB-1248)**	**1300 J**	**8600**	**µg/kg**	**TT-43: 6-8 ft BGS (11/8/2017)**	**2/15**	**24 - 340**	**8600**	**230**	**C**	**Y**	**ASV**
11097-69-1	**Aroclor-1254 (PCB-1254)**	**86**	**1800**	**µg/kg**	**SS-136: 0-2 ft BGS (10/29/2018)**	**5/15**	**15 - 330**	**1800**	**120**	**C**	**Y**	**ASV**
11096-82-5	**Aroclor-1260 (PCB-1260)**	**44 J**	**1100 J**	**µg/kg**	**SS-132: 0.7-2.7 ft BGS (11/8/2017)**	**4/15**	**22 - 310**	**1100 J**	**240**	**C**	**Y**	**ASV**
	Pesticides											
72-54-8	4,4'-DDD	2.0 NJ	2.0 NJ	µg/kg	SS-130: 0.25-2.25 ft BGS (10/29/2018)	1/15	1.6 - 97	2.0 NJ	190	C	N	BSV
72-55-9	4,4'-DDE	2.3 J	20 NJ	µg/kg	SS-136: 0-2 ft BGS (10/29/2018)	2/15	1.4 - 99	20 NJ	2000	C	N	BSV
50-29-3	4,4'-DDT	5.1 J	38 NJ	µg/kg	TT-43: 6-8 ft BGS (11/8/2017)	3/15	1.2 - 74	38 NJ	1900	C	N	BSV
309-00-2	Aldrin	ND	ND	µg/kg	--	0/15	0.81 - 54	N/A	39	C	N	ND
319-84-6	alpha-BHC	ND	ND	µg/kg	--	0/15	0.95 - 60	N/A	86	C	N	ND
5103-71-9	alpha-Chlordane	ND	ND	µg/kg	--	0/15	1.6 - 99	N/A	1700	C	N	ND
319-85-7	beta-BHC	ND	ND	µg/kg	--	0/15	1.8 - 110	N/A	300	C	N	ND
319-86-8	delta-BHC	ND	ND	µg/kg	--	0/15	1.5 - 170	N/A	300	C	N	ND
60-57-1	Dieldrin	14 NJ	14 NJ	µg/kg	SS-136: 0-2 ft BGS (10/29/2018)	1/15	1.1 - 72	14 NJ	34	C	N	BSV
959-98-8	Endosulfan I	ND	ND	µg/kg	--	0/15	1.3 - 79	N/A	47000	N	N	ND
33213-65-9	Endosulfan II	ND	ND	µg/kg	--	0/15	1.6 - 97	N/A	47000	N	N	ND
1031-07-8	Endosulfan sulfate	ND	ND	µg/kg	--	0/15	1.3 - 160	N/A	47000	N	N	ND

Table 24

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU15 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU15 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Pesticides (cont.'d)											
72-20-8	Endrin	17 NJ	17 NJ	µg/kg	SS-132: 0.7-2.7 ft BGS (11/8/2017)	1/15	1.6 - 120	17 NJ	1900	N	N	BSV
7421-93-4	Endrin aldehyde	2.1 NJ	54 J	µg/kg	TT-43: 6-8 ft BGS (11/8/2017)	3/15	1.4 - 240	54 J	1900	N	N	BSV
53494-70-5	Endrin ketone	ND	ND	µg/kg	--	0/15	0.93 - 58	N/A	1900	N	N	ND
58-89-9	gamma-BHC (lindane)	ND	ND	µg/kg	--	0/15	1.9 - 120	N/A	570	C	N	ND
5103-74-2	gamma-Chlordane	ND	ND	µg/kg	--	0/15	1.3 - 81	N/A	1700	C	N	ND
76-44-8	Heptachlor	ND	ND	µg/kg	--	0/15	0.91 - 100	N/A	130	C	N	ND
1024-57-3	Heptachlor epoxide	9.6 NJ	9.6 NJ	µg/kg	SS-136: 0-2 ft BGS (10/29/2018)	1/15	1.5 - 95	9.6 NJ	70	C	N	BSV
72-43-5	Methoxychlor	20 NJ	20 NJ	µg/kg	SS-132: 0.7-2.7 ft BGS (11/8/2017)	1/15	1.4 - 430	20 NJ	32000	N	N	BSV
8001-35-2	Toxaphene	ND	ND	µg/kg	--	0/15	26 - 1600	N/A	490	C	N	ND
	Herbicides											
93-76-5	2,4,5-T	ND	ND	µg/kg	--	0/1	15	N/A	63000	N	N	ND
93-72-1	2,4,5-TP (Silvex)	ND	ND	µg/kg	--	0/2	16 - 30	N/A	51000	N	N	ND
94-75-7	2,4-Dichlorophenoxyacetic acid (2,4-D)	ND	ND	µg/kg	--	0/2	57 - 120	N/A	70000	N	N	ND
	Dioxins/Furans											
39001-02-0	1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	1.3 J	330	pg/g	TT-43: 6-8 ft BGS (11/8/2017)	4/4	0.39	330	--			Refer to Total TEQ
3268-87-9	1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	4.9 J	1400	pg/g	TT-43: 6-8 ft BGS (11/8/2017)	4/4	--	1400	--			Refer to Total TEQ
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	1.0 J	410	pg/g	TT-43: 6-8 ft BGS (11/8/2017)	4/4	--	410	--			Refer to Total TEQ
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	5.2 J	300	pg/g	TT-43: 6-8 ft BGS (11/8/2017)	3/4	0.23	300	--			Refer to Total TEQ
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	17	17	pg/g	TT-43: 6-8 ft BGS (11/8/2017)	1/4	0.099 - 0.3	17	--			Refer to Total TEQ
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	1.5 J	130	pg/g	TT-43: 6-8 ft BGS (11/8/2017)	2/4	0.074 - 0.24	130	--			Refer to Total TEQ
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	0.43 J	9.3	pg/g	TT-43: 6-8 ft BGS (11/8/2017)	2/4	0.019 - 0.27	9.3	--			Refer to Total TEQ
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	0.51 J	59 J	pg/g	TT-43: 6-8 ft BGS (11/8/2017)	3/4	0.069 - 0.22	59 J	--			Refer to Total TEQ
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	2.7 J	35	pg/g	TT-43: 6-8 ft BGS (11/8/2017)	2/4	0.021 - 0.28	35	--			Refer to Total TEQ
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	ND	ND	pg/g	--	0/4	0.088 - 3.8	N/A	--			Refer to Total TEQ
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	3.3 J	30	pg/g	TT-43: 6-8 ft BGS (11/8/2017)	2/4	0.019 - 0.26	30	--			Refer to Total TEQ
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	0.71 J	24	pg/g	TT-43: 6-8 ft BGS (11/8/2017)	2/4	0.16 - 0.22	24	--			Refer to Total TEQ
40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	1.0 J	10 J	pg/g	TT-43: 6-8 ft BGS (11/8/2017)	2/4	0.17 - 0.46	10 J	--			Refer to Total TEQ
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	1.5 J	47	pg/g	TT-43: 6-8 ft BGS (11/8/2017)	2/4	0.074 - 0.22	47	--			Refer to Total TEQ
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	1.8 J	55	pg/g	TT-43: 6-8 ft BGS (11/8/2017)	2/4	0.13 - 0.18	55	--			Refer to Total TEQ
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran (TCDF)	28	28	pg/g	TT-43: 6-8 ft BGS (11/8/2017)	1/4	0.29 - 0.37	28	--			Refer to Total TEQ
1746-01-6	2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	5.7	5.7	pg/g	TT-43: 6-8 ft BGS (11/8/2017)	1/4	0.34 - 0.62	5.7	--			Refer to Total TEQ
38998-75-3	Total heptachlorodibenzofuran (HpCDF)	1.4 J	880 J	pg/g	TT-43: 6-8 ft BGS (11/8/2017)	4/4	--	880 J	--			Refer to Total TEQ
37871-00-4	Total heptachlorodibenzo-p-dioxin (HpCDD)	10 J	600 J	pg/g	TT-43: 6-8 ft BGS (11/8/2017)	3/4	0.23	600 J	--			Refer to Total TEQ
55684-94-1	Total hexachlorodibenzofuran (HxCDF)	1.3 J	830 J	pg/g	TT-43: 6-8 ft BGS (11/8/2017)	4/4	--	830 J	--			Refer to Total TEQ
34465-46-8	Total hexachlorodibenzo-p-dioxin (HxCDD)	1.6 J	360 J	pg/g	TT-43: 6-8 ft BGS (11/8/2017)	3/4	0.28	360 J	--			Refer to Total TEQ
30402-15-4	Total pentachlorodibenzofuran (PeCDF)	2.4 J	1300 J	pg/g	TT-43: 6-8 ft BGS (11/8/2017)	4/4	--	1300 J	--			Refer to Total TEQ
36088-22-9	Total pentachlorodibenzo-p-dioxin (PeCDD)	5.0 J	2500 J	pg/g	TT-43: 6-8 ft BGS (11/8/2017)	2/4	0.17 - 0.46	2500 J	--			Refer to Total TEQ
55722-27-5	Total tetrachlorodibenzofuran (TCDF)	3.5 J	1900 J	pg/g	TT-43: 6-8 ft BGS (11/8/2017)	4/4	--	1900 J	--			Refer to Total TEQ
41903-57-5	Total tetrachlorodibenzo-p-dioxin (TCDD)	0.79 J	160 J	pg/g	TT-43: 6-8 ft BGS (11/8/2017)	3/4	0.58 - 0.62	160 J	--			Refer to Total TEQ
TOTALTEQND0	**Total TEQ (DL @ 0)**	**0.06686**	**74.539**	**pg/g**	**TT-43: 6-8 ft BGS (11/8/2017)**	**4/4**	**--**	**74.539**	**4.8**	**C**	**Y**	**ASV**
TOTALTEQND0.5	**Total TEQ (DL @ Half)**	**0.5216035**	**74.729**	**pg/g**	**TT-43: 6-8 ft BGS (11/8/2017)**	**4/4**	**--**	**74.729**	**4.8**	**C**	**Y**	**ASV**

Table 24

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU15 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU15 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)	COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Asbestos										
1332-21-4	Asbestos	ND	ND	%	--	0/5	0.25 - 1	N/A	--	N	ND
12001-29-5	Chrysotile asbestos	ND	ND	%	--	0/1	0.25	N/A	--	N	ND

Notes:

(1) Minimum/maximum detected concentration.
(2) Based on data collected from sampling locations: BH51-13, BH53-13, SS-125, SS-130, SS-131, SS-132, SS-133, SS-134, SS-135, SS-136, SS-137, SS-141, SS-143, SS-171-AS, SS-172-AS, SS-173-AS.
(3) Regional Screening Level (RSL) Summary Table (TR = 1E-06, HI = 0.1) , Residential Soil, November 2018.
(4) Rationale Codes

Selection Reason: Maximum detected above Screening Value (ASV)
Analyte Detected and no Screening Value available (AD)
Deletion Reason: Maximum detected below Screening Value (BSV)
Naturally Occurring (NAT)

(5) No screening value available, surrogate screening value implemented as follows:

Chemical		Surrogate
1,3-dichlorobenzene	-	1,2-dichlorobenzene
methyl cyclohexane	-	cyclohexane
3&4-methylphenol	-	3-methylphenol
acenaphthylene	-	acenaphthene
benzo(g,h,i)perylene	-	pyrene
phenanthrene	-	pyrene
dimethylphthalate	-	diethylphthalate

Defintions:

-- = Not Available
N = Noncarcinogen
C = Carcinogen
Y = Yes
N = No
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.

Table 25

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU16 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU16 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Volatile Organic Compounds											
71-55-6	1,1,1-Trichloroethane	ND	ND	µg/kg	--	0/2	4.9 - 29	N/A	810000	N	N	ND
79-34-5	1,1,2,2-Tetrachloroethane	ND	ND	µg/kg	--	0/2	4.9 - 25	N/A	600	C	N	ND
79-00-5	1,1,2-Trichloroethane	ND	ND	µg/kg	--	0/2	4.9 - 24	N/A	150	N	N	ND
75-34-3	1,1-Dichloroethane	ND	ND	µg/kg	--	0/2	4.9 - 32	N/A	3.6	C	N	ND
75-35-4	1,1-Dichloroethene	ND	ND	µg/kg	--	0/2	4.9 - 37	N/A	23000	N	N	ND
120-82-1	1,2,4-Trichlorobenzene	ND	ND	µg/kg	--	0/2	4.9 - 27	N/A	5800	N	N	ND
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	ND	µg/kg	--	0/2	9.8 - 50	N/A	5.3	C	N	ND
106-93-4	1,2-Dibromoethane (Ethylene dibromide)	ND	ND	µg/kg	--	0/2	4.9 - 24	N/A	36	C	N	ND
95-50-1	1,2-Dichlorobenzene	ND	ND	µg/kg	--	0/2	4.9 - 19	N/A	180000	N	N	ND
107-06-2	1,2-Dichloroethane	ND	ND	µg/kg	--	0/2	4.9 - 31	N/A	460	C	N	ND
78-87-5	1,2-Dichloropropane	ND	ND	µg/kg	--	0/2	4.9 - 31	N/A	1600	N	N	ND
541-73-1	1,3-Dichlorobenzene	ND	ND	µg/kg	--	0/2	4.9 - 39	N/A	180000 (5)	N	N	ND
106-46-7	1,4-Dichlorobenzene	ND	ND	µg/kg	--	0/2	4.9 - 28	N/A	2600	C	N	ND
78-93-3	2-Butanone (Methyl ethyl ketone) (MEK)	5.1 J	5.1 J	µg/kg	BH36-13: 0-2 ft BGS (7/1/2013)	1/2	50 - 52	5.1 J	2700000	N	N	BSV
591-78-6	2-Hexanone	ND	ND	µg/kg	--	0/2	20 - 89	N/A	20000	N	N	ND
108-10-1	4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	0.90 J	0.90 J	µg/kg	BH36-13: 0-2 ft BGS (7/1/2013)	1/2	40 - 41	0.90 J	3300000	N	N	BSV
67-64-1	Acetone	ND	ND	µg/kg	--	0/2	20 - 100	N/A	6100000	N	N	ND
71-43-2	Benzene	29 J	37 J	µg/kg	BH136-18: 1-3 ft BGS (1/8/2018)	1/2	4.9	37 J	1200	C	N	BSV
75-27-4	Bromodichloromethane	ND	ND	µg/kg	--	0/2	4.9 - 19	N/A	290	C	N	ND
75-25-2	Bromoform	ND	ND	µg/kg	--	0/2	4.9 - 24	N/A	19000	C	N	ND
74-83-9	Bromomethane (Methyl bromide)	ND	ND	µg/kg	--	0/2	4.9 - 29	N/A	680	N	N	ND
75-15-0	Carbon disulfide	0.63 J	0.63 J	µg/kg	BH36-13: 0-2 ft BGS (7/1/2013)	1/2	18 - 19	0.63 J	77000	N	N	BSV
56-23-5	Carbon tetrachloride	ND	ND	µg/kg	--	0/2	4.9 - 28	N/A	650	C	N	ND
108-90-7	Chlorobenzene	ND	ND	µg/kg	--	0/2	4.9 - 31	N/A	28000	N	N	ND
75-00-3	Chloroethane	ND	ND	µg/kg	--	0/2	4.9 - 29	N/A	1400000	N	N	ND
67-66-3	Chloroform (Trichloromethane)	ND	ND	µg/kg	--	0/2	4.9 - 25	N/A	320	C	N	ND
74-87-3	Chloromethane (Methyl chloride)	ND	ND	µg/kg	--	0/2	4.9 - 19	N/A	11000	N	N	ND
156-59-2	cis-1,2-Dichloroethene	3300	4200	µg/kg	BH136-18: 1-3 ft BGS (1/8/2018)	1/2	4.9	4200	16000	N	N	BSV
10061-01-5	cis-1,3-Dichloropropene	ND	ND	µg/kg	--	0/2	4.9 - 24	N/A	1800	C	N	ND
110-82-7	Cyclohexane	34 J	43 J	µg/kg	BH136-18: 1-3 ft BGS (1/8/2018)	1/2	9.8	43 J	650000	N	N	BSV
124-48-1	Dibromochloromethane	ND	ND	µg/kg	--	0/2	4.9 - 35	N/A	8300	C	N	ND
75-71-8	Dichlorodifluoromethane (CFC-12)	ND	ND	µg/kg	--	0/2	4.9 - 23	N/A	8700	N	N	ND
100-41-4	Ethylbenzene	ND	ND	µg/kg	--	0/2	4.9 - 36	N/A	5800	C	N	ND
98-82-8	Isopropyl benzene	ND	ND	µg/kg	--	0/2	4.9 - 35	N/A	190000	N	N	ND
79-20-9	Methyl acetate	ND	ND	µg/kg	--	0/2	9.8 - 77	N/A	7800000	N	N	ND
108-87-2	Methyl cyclohexane	700	770	µg/kg	BH136-18: 1-3 ft BGS (1/8/2018)	1/2	9.8	770	650000 (5)	N	N	BSV
1634-04-4	Methyl tert butyl ether (MTBE)	ND	ND	µg/kg	--	0/2	4.9 - 27	N/A	47000	C	N	ND
75-09-2	Methylene chloride	ND	ND	µg/kg	--	0/2	4.9 - 67	N/A	35000	N	N	ND
100-42-5	Styrene	ND	ND	µg/kg	--	0/2	4.9 - 10	N/A	600000	N	N	ND
127-18-4	Tetrachloroethene	ND	ND	µg/kg	--	0/2	4.9 - 22	N/A	8100	N	N	ND
108-88-3	Toluene	0.38 J	200 J	µg/kg	BH136-18: 1-3 ft BGS (1/8/2018)	2/2	--	200 J	490000	N	N	BSV
156-60-5	trans-1,2-Dichloroethene	46 J	53 J	µg/kg	BH136-18: 1-3 ft BGS (1/8/2018)	1/2	4.9	53 J	160000	N	N	BSV

Table 25

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU16 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU16 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Volatile Organic Compounds (cont.'d)											
10061-02-6	trans-1,3-Dichloropropene	ND	ND	µg/kg	--	0/2	4.9 - 15	N/A	1800	C	N	ND
79-01-6	Trichloroethene	75 J	96 J	µg/kg	BH136-18: 1-3 ft BGS (1/8/2018)	1/2	4.9	96 J	410	N	N	BSV
75-69-4	Trichlorofluoromethane (CFC-11)	ND	ND	µg/kg	--	0/2	4.9 - 35	N/A	2300000	N	N	ND
76-13-1	Trifluorotrichloroethane (CFC-113)	ND	ND	µg/kg	--	0/2	4.9 - 24	N/A	670000	N	N	ND
75-01-4	**Vinyl chloride**	**78 J**	**89 J**	**µg/kg**	**BH136-18: 1-3 ft BGS (1/8/2018)**	**1/2**	**4.9**	**89 J**	**59**	**C**	**Y**	**ASV**
1330-20-7	Xylenes (total)	42 J	63 J	µg/kg	BH136-18: 1-3 ft BGS (1/8/2018)	1/2	9.8	63 J	58000	N	N	BSV
	Semi-Volatiles Organic Compounds											
108-60-1	2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ND	ND	µg/kg	--	0/1	100	N/A	310000	N	N	ND
95-95-4	2,4,5-Trichlorophenol	ND	ND	µg/kg	--	0/1	260 - 270	N/A	630000	N	N	ND
88-06-2	2,4,6-Trichlorophenol	ND	ND	µg/kg	--	0/1	94 - 96	N/A	6300	N	N	ND
120-83-2	2,4-Dichlorophenol	ND	ND	µg/kg	--	0/1	210	N/A	19000	N	N	ND
105-67-9	2,4-Dimethylphenol	ND	ND	µg/kg	--	0/1	210	N/A	130000	N	N	ND
51-28-5	2,4-Dinitrophenol	ND	ND	µg/kg	--	0/1	220 - 230	N/A	13000	N	N	ND
121-14-2	2,4-Dinitrotoluene	ND	ND	µg/kg	--	0/1	180	N/A	1700	C	N	ND
606-20-2	2,6-Dinitrotoluene	ND	ND	µg/kg	--	0/1	220 - 230	N/A	360	C	N	ND
91-58-7	2-Chloronaphthalene	ND	ND	µg/kg	--	0/1	4.8	N/A	480000	N	N	ND
95-57-8	2-Chlorophenol	ND	ND	µg/kg	--	0/1	87 - 88	N/A	39000	N	N	ND
91-57-6	2-Methylnaphthalene	300	440	µg/kg	BH136-18: 1-3 ft BGS (1/8/2018)	1/1	--	440	240000	N	N	BSV
95-48-7	2-Methylphenol	ND	ND	µg/kg	--	0/1	120	N/A	320000	N	N	ND
88-74-4	2-Nitroaniline	ND	ND	µg/kg	--	0/1	96 - 98	N/A	63000	n	N	ND
88-75-5	2-Nitrophenol	ND	ND	µg/kg	--	0/1	88 - 89	N/A	--		N	ND
3/4-Cresol	3&4-Methylphenol	ND	ND	µg/kg	--	0/1	210	N/A	320000 (5)	N	N	ND
91-94-1	3,3'-Dichlorobenzidine	ND	ND	µg/kg	--	0/1	190	N/A	1200	c	N	ND
99-09-2	3-Nitroaniline	ND	ND	µg/kg	--	0/1	170	N/A	--		N	ND
534-52-1	4,6-Dinitro-2-methylphenol	ND	ND	µg/kg	--	0/1	97 - 99	N/A	510	N	N	ND
101-55-3	4-Bromophenyl phenyl ether	ND	ND	µg/kg	--	0/1	140	N/A	--		N	ND
59-50-7	4-Chloro-3-methylphenol	ND	ND	µg/kg	--	0/1	220 - 230	N/A	630000	N	N	ND
106-47-8	4-Chloroaniline	ND	ND	µg/kg	--	0/1	180	N/A	2700	C	N	ND
7005-72-3	4-Chlorophenyl phenyl ether	ND	ND	µg/kg	--	0/1	140	N/A	--		N	ND
100-01-6	4-Nitroaniline	ND	ND	µg/kg	--	0/1	280	N/A	25000	N	N	ND
100-02-7	4-Nitrophenol	ND	ND	µg/kg	--	0/1	180	N/A	--		N	ND
83-32-9	Acenaphthene	49 J	49 J	µg/kg	BH136-18: 1-3 ft BGS (1/8/2018)	1/1	8.2	49 J	360000	N	N	BSV
208-96-8	Acenaphthylene	ND	ND	µg/kg	--	0/1	3.7 - 3.8	N/A	360000 (5)	N	N	ND
98-86-2	Acetophenone	ND	ND	µg/kg	--	0/1	97 - 99	N/A	780000	N	N	ND
120-12-7	Anthracene	69 J	78	µg/kg	BH136-18: 1-3 ft BGS (1/8/2018)	1/1	--	78	1800000	N	N	BSV
1912-24-9	Atrazine	ND	ND	µg/kg	--	0/1	96 - 98	N/A	2400	C	N	ND
100-52-7	Benzaldehyde	ND	ND	µg/kg	--	0/1	130	N/A	170000	N	N	ND
56-55-3	Benzo(a)anthracene	280 J	500 J	µg/kg	BH136-18: 1-3 ft BGS (1/8/2018)	1/1	--	500 J	1100	C	N	BSV
50-32-8	**Benzo(a)pyrene**	**370 J**	**780 J**	**µg/kg**	**BH136-18: 1-3 ft BGS (1/8/2018)**	**1/1**	**--**	**780 J**	**110**	**C**	**Y**	**ASV**
205-99-2	**Benzo(b)fluoranthene**	**720 J**	**1800 J**	**µg/kg**	**BH136-18: 1-3 ft BGS (1/8/2018)**	**1/1**	**--**	**1800 J**	**1100**	**C**	**Y**	**ASV**

Table 25

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU16 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU16 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Semi-Volatiles Organic Compounds (cont.'d)											
191-24-2	Benzo(g,h,i)perylene	160 J	520 J	µg/kg	BH136-18: 1-3 ft BGS (1/8/2018)	1/1	--	520 J	180000 (5)	N	N	BSV
207-08-9	Benzo(k)fluoranthene	190 J	600 J	µg/kg	BH136-18: 1-3 ft BGS (1/8/2018)	1/1	--	600 J	11000	C	N	BSV
92-52-4	Biphenyl (1,1-Biphenyl)	81 J	92 J	µg/kg	BH136-18: 1-3 ft BGS (1/8/2018)	1/1	--	92 J	4700	N	N	BSV
111-91-1	bis(2-Chloroethoxy)methane	ND	ND	µg/kg	--	0/1	230 - 240	N/A	19000	N	N	ND
111-44-4	bis(2-Chloroethyl)ether	ND	ND	µg/kg	--	0/1	21	N/A	230	C	N	ND
117-81-7	bis(2-Ethylhexyl)phthalate (DEHP)	510 J	510 J	µg/kg	BH136-18: 1-3 ft BGS (1/8/2018)	1/1	200	510 J	39000	C	N	BSV
85-68-7	Butyl benzylphthalate (BBP)	ND	ND	µg/kg	--	0/1	110	N/A	290000	C	N	ND
105-60-2	Caprolactam	ND	ND	µg/kg	--	0/1	390 - 400	N/A	3100000	N	N	ND
86-74-8	Carbazole	ND	ND	µg/kg	--	0/1	290	N/A	--		N	ND
218-01-9	Chrysene	350 J	800 J	µg/kg	BH136-18: 1-3 ft BGS (1/8/2018)	1/1	--	800 J	110000	C	N	BSV
53-70-3	Dibenz(a,h)anthracene	ND	ND	µg/kg	--	0/1	7 - 7.1	N/A	110	C	N	ND
132-64-9	Dibenzofuran	98 J	140 J	µg/kg	BH136-18: 1-3 ft BGS (1/8/2018)	1/1	--	140 J	7300	N	N	BSV
84-66-2	Diethyl phthalate	ND	ND	µg/kg	--	0/1	170	N/A	5100000	N	N	ND
131-11-3	Dimethyl phthalate	ND	ND	µg/kg	--	0/1	180	N/A	5100000 (5)	N	N	ND
84-74-2	Di-n-butylphthalate (DBP)	ND	ND	µg/kg	--	0/1	160	N/A	630000	N	N	ND
117-84-0	Di-n-octyl phthalate (DnOP)	ND	ND	µg/kg	--	0/1	84 - 85	N/A	63000	N	N	ND
206-44-0	Fluoranthene	640	730	µg/kg	BH136-18: 1-3 ft BGS (1/8/2018)	1/1	--	730	240000	N	N	BSV
86-73-7	Fluorene	63 J	95	µg/kg	BH136-18: 1-3 ft BGS (1/8/2018)	1/1	--	95	240000	N	N	BSV
118-74-1	Hexachlorobenzene	ND	ND	µg/kg	--	0/1	22 - 23	N/A	210	C	N	ND
87-68-3	Hexachlorobutadiene	ND	ND	µg/kg	--	0/1	59 - 60	N/A	1200	C	N	ND
77-47-4	Hexachlorocyclopentadiene	ND	ND	µg/kg	--	0/1	86 - 87	N/A	180	N	N	ND
67-72-1	Hexachloroethane	ND	ND	µg/kg	--	0/1	95 - 97	N/A	1800	C	N	ND
193-39-5	Indeno(1,2,3-cd)pyrene	190 J	420 J	µg/kg	BH136-18: 1-3 ft BGS (1/8/2018)	1/1	--	420 J	1100	C	N	BSV
78-59-1	Isophorone	ND	ND	µg/kg	--	0/1	140	N/A	570000	C	N	ND
91-20-3	Naphthalene	230	350	µg/kg	BH136-18: 1-3 ft BGS (1/8/2018)	1/1	--	350	3800	C	N	BSV
98-95-3	Nitrobenzene	ND	ND	µg/kg	--	0/1	23 - 24	N/A	5100	C	N	ND
621-64-7	N-Nitrosodi-n-propylamine	ND	ND	µg/kg	--	0/1	67 - 68	N/A	78	C	N	ND
86-30-6	N-Nitrosodiphenylamine	ND	ND	µg/kg	--	0/1	220 - 230	N/A	110000	C	N	ND
87-86-5	Pentachlorophenol	ND	ND	µg/kg	--	0/1	96 - 98	N/A	1000	C	N	ND
85-01-8	Phenanthrene	510	570	µg/kg	BH136-18: 1-3 ft BGS (1/8/2018)	1/1	--	570	180000 (5)	N	N	BSV
108-95-2	Phenol	ND	ND	µg/kg	--	0/1	77 - 78	N/A	1900000	N	N	ND
129-00-0	Pyrene	670	810	µg/kg	BH136-18: 1-3 ft BGS (1/8/2018)	1/1	--	810	180000	N	N	BSV
	Metals											
7429-90-5	Aluminum	2400	4500	mg/kg	BH136-18: 1-3 ft BGS (1/8/2018)	1/1	--	4500	7700	N	N	BSV
7440-36-0	Antimony	0.41 J	0.42 J	mg/kg	BH136-18: 1-3 ft BGS (1/8/2018)	1/1	--	0.42 J	3.1	N	N	BSV
7440-38-2	**Arsenic**	**5.2**	**6.2**	**mg/kg**	**BH136-18: 1-3 ft BGS (1/8/2018)**	**1/1**	**--**	**6.2**	**0.68**	**C**	**Y**	**ASV**
7440-39-3	Barium	79	130	mg/kg	BH136-18: 1-3 ft BGS (1/8/2018)	1/1	--	130	1500	N	N	BSV
7440-41-7	Beryllium	0.33	0.41	mg/kg	BH136-18: 1-3 ft BGS (1/8/2018)	1/1	--	0.41	16	N	N	BSV
7440-43-9	Cadmium	0.28	0.42	mg/kg	BH136-18: 1-3 ft BGS (1/8/2018)	1/1	--	0.42	7.1	N	N	BSV
7440-70-2	Calcium	49000	110000	mg/kg	BH136-18: 1-3 ft BGS (1/8/2018)	1/1	--	110000	--		N	NAT
16065-83-1	Chromium III (trivalent)	44	60	mg/kg	BH136-18: 1-3 ft BGS (1/8/2018)	1/1	--	60	12000	N	N	BSV

Table 25

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU16 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU16 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Metals (cont.'d)											
18540-29-9	**Chromium VI (hexavalent)**	**1**	**1**	**mg/kg**	**BH136-18: 1-3 ft BGS (1/8/2018)**	**1/1**	**0.26**	**1**	**0.3**	**C**	**Y**	**ASV**
7440-48-4	**Cobalt**	**3**	**3.6**	**mg/kg**	**BH136-18: 1-3 ft BGS (1/8/2018)**	**1/1**	**--**	**3.6**	**2.3**	**N**	**Y**	**ASV**
7440-50-8	Copper	190	200	mg/kg	BH136-18: 1-3 ft BGS (1/8/2018)	1/1	--	200	310	N	N	BSV
57-12-5	Cyanide (total)	0.13 J	0.21 J	mg/kg	BH136-18: 1-3 ft BGS (1/8/2018)	1/1	--	0.21 J	2.3	N	N	BSV
7439-89-6	**Iron**	**11000**	**23000**	**mg/kg**	**BH136-18: 1-3 ft BGS (1/8/2018)**	**1/1**	**--**	**23000**	**5500**	**N**	**Y**	**ASV**
7439-92-1	Lead	120	180	mg/kg	BH136-18: 1-3 ft BGS (1/8/2018)	1/1	--	180	400	C	N	BSV
7439-95-4	Magnesium	24000	45000	mg/kg	BH136-18: 1-3 ft BGS (1/8/2018)	1/1	--	45000	--		N	NAT
7439-96-5	**Manganese**	**230**	**360**	**mg/kg**	**BH136-18: 1-3 ft BGS (1/8/2018)**	**1/1**	**--**	**360**	**180**	**N**	**Y**	**ASV**
7439-97-6	Mercury	0.81 J	0.81 J	mg/kg	BH136-18: 1-3 ft BGS (1/8/2018)	1/1	0.021	0.81 J	1.1	N	N	BSV
7440-02-0	Nickel	11	12	mg/kg	BH136-18: 1-3 ft BGS (1/8/2018)	1/1	--	12	150	N	N	BSV
7440-09-7	Potassium	380	560	mg/kg	BH136-18: 1-3 ft BGS (1/8/2018)	1/1	--	560	--		N	NAT
7782-49-2	Selenium	0.52 J	0.65 J	mg/kg	BH136-18: 1-3 ft BGS (1/8/2018)	1/1	--	0.65 J	39	N	N	BSV
7440-22-4	Silver	0.32 J	5.0 J	mg/kg	BH136-18: 1-3 ft BGS (1/8/2018)	1/1	--	5.0 J	39	N	N	BSV
7440-23-5	Sodium	190	260	mg/kg	BH136-18: 1-3 ft BGS (1/8/2018)	1/1	--	260	--		N	NAT
7440-28-0	**Thallium**	**0.086 J**	**0.10 J**	**mg/kg**	**BH136-18: 1-3 ft BGS (1/8/2018)**	**1/1**	**--**	**0.10 J**	**0.078**	**N**	**Y**	**ASV**
7440-62-2	Vanadium	11	12	mg/kg	BH136-18: 1-3 ft BGS (1/8/2018)	1/1	--	12	39	N	N	BSV
7440-66-6	Zinc	39	87	mg/kg	BH136-18: 1-3 ft BGS (1/8/2018)	1/1	--	87	2300	N	N	BSV
	Polychlorinated Biphenyls											
12674-11-2	Aroclor-1016 (PCB-1016)	ND	ND	µg/kg	--	0/1	23 - 110	N/A	410	N	N	ND
11104-28-2	Aroclor-1221 (PCB-1221)	ND	ND	µg/kg	--	0/1	25 - 130	N/A	200	C	N	ND
11141-16-5	Aroclor-1232 (PCB-1232)	ND	ND	µg/kg	--	0/1	24 - 120	N/A	170	C	N	ND
53469-21-9	Aroclor-1242 (PCB-1242)	ND	ND	µg/kg	--	0/1	20 - 99	N/A	230	C	N	ND
12672-29-6	Aroclor-1248 (PCB-1248)	ND	ND	µg/kg	--	0/1	25 - 130	N/A	230	C	N	ND
11097-69-1	**Aroclor-1254 (PCB-1254)**	**440 J**	**2000 J**	**µg/kg**	**BH136-18: 1-3 ft BGS (1/8/2018)**	**1/1**	**--**	**2000 J**	**120**	**C**	**Y**	**ASV**
11096-82-5	Aroclor-1260 (PCB-1260)	ND	ND	µg/kg	--	0/1	23 - 110	N/A	240	C	N	ND
	Pesticides											
72-54-8	4,4'-DDD	ND	ND	µg/kg	--	0/1	34 - 69	N/A	190	C	N	ND
72-55-9	4,4'-DDE	ND	ND	µg/kg	--	0/1	12 - 25	N/A	2000	C	N	ND
50-29-3	4,4'-DDT	ND	ND	µg/kg	--	0/1	14 - 29	N/A	1900	C	N	ND
309-00-2	Aldrin	ND	ND	µg/kg	--	0/1	25 - 50	N/A	39	C	N	ND
319-84-6	alpha-BHC	ND	ND	µg/kg	--	0/1	16 - 33	N/A	86	C	N	ND
5103-71-9	alpha-Chlordane	ND	ND	µg/kg	--	0/1	39 - 79	N/A	1700	C	N	ND
319-85-7	beta-BHC	ND	ND	µg/kg	--	0/1	40 - 81	N/A	300	C	N	ND
319-86-8	delta-BHC	ND	ND	µg/kg	--	0/1	13 - 27	N/A	300	C	N	ND
60-57-1	Dieldrin	ND	ND	µg/kg	--	0/1	9.3 - 19	N/A	34	C	N	ND

Table 25

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU16 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU16 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Pesticides (cont.'d)											
959-98-8	Endosulfan I	ND	ND	µg/kg	--	0/1	13 - 27	N/A	47000	N	N	ND
33213-65-9	Endosulfan II	ND	ND	µg/kg	--	0/1	19 - 38	N/A	47000	N	N	ND
1031-07-8	Endosulfan sulfate	ND	ND	µg/kg	--	0/1	12 - 25	N/A	47000	N	N	ND
72-20-8	Endrin	ND	ND	µg/kg	--	0/1	14 - 29	N/A	1900	N	N	ND
7421-93-4	Endrin aldehyde	ND	ND	µg/kg	--	0/1	19 - 38	N/A	1900	N	N	ND
53494-70-5	Endrin ketone	ND	ND	µg/kg	--	0/1	11 - 23	N/A	1900	N	N	ND
58-89-9	gamma-BHC (lindane)	ND	ND	µg/kg	--	0/1	30 - 61	N/A	570	C	N	ND
5103-74-2	gamma-Chlordane	ND	ND	µg/kg	--	0/1	15 - 31	N/A	1700	C	N	ND
76-44-8	Heptachlor	ND	ND	µg/kg	--	0/1	8 - 16	N/A	130	C	N	ND
1024-57-3	Heptachlor epoxide	ND	ND	µg/kg	--	0/1	25 - 50	N/A	70	C	N	ND
72-43-5	Methoxychlor	ND	ND	µg/kg	--	0/1	12 - 25	N/A	32000	N	N	ND
8001-35-2	Toxaphene	ND	ND	µg/kg	--	0/1	380 - 770	N/A	490	C	N	ND
	Herbicides											
93-72-1	2,4,5-TP (Silvex)	ND	ND	µg/kg	--	0/0	--	N/A	51000	N	N	ND
94-75-7	2,4-Dichlorophenoxyacetic acid (2,4-D)	ND	ND	µg/kg	--	0/0	--	N/A	70000	N	N	ND
	Dioxins/Furans											
39001-02-0	1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	35	43 J	pg/g	BH136-18: 1-3 ft BGS (1/8/2018)	1/1	--	43 J	--			Refer to Total TEQ
3268-87-9	1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	410	480	pg/g	BH136-18: 1-3 ft BGS (1/8/2018)	1/1	--	480	--			Refer to Total TEQ
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	85	120	pg/g	BH136-18: 1-3 ft BGS (1/8/2018)	1/1	--	120	--			Refer to Total TEQ
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	120	140	pg/g	BH136-18: 1-3 ft BGS (1/8/2018)	1/1	--	140	--			Refer to Total TEQ
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	6.9	8.5 J	pg/g	BH136-18: 1-3 ft BGS (1/8/2018)	1/1	--	8.5 J	--			Refer to Total TEQ
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	48 J	65	pg/g	BH136-18: 1-3 ft BGS (1/8/2018)	1/1	--	65	--			Refer to Total TEQ
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	4.0 J	4.0 J	pg/g	BH136-18: 1-3 ft BGS (1/8/2018)	1/1	0.39	4.0 J	--			Refer to Total TEQ
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	16	23 J	pg/g	BH136-18: 1-3 ft BGS (1/8/2018)	1/1	--	23 J	--			Refer to Total TEQ
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	16 J	18	pg/g	BH136-18: 1-3 ft BGS (1/8/2018)	1/1	--	18	--			Refer to Total TEQ
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	0.88 J	0.88 J	pg/g	BH136-18: 1-3 ft BGS (1/8/2018)	1/1	2	0.88 J	--			Refer to Total TEQ
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	15	16 J	pg/g	BH136-18: 1-3 ft BGS (1/8/2018)	1/1	--	16 J	--			Refer to Total TEQ
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	15 J	15 J	pg/g	BH136-18: 1-3 ft BGS (1/8/2018)	1/1	--	15 J	--			Refer to Total TEQ
40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	ND	ND	pg/g	--	0/1	6.3 - 15	N/A	--			Refer to Total TEQ
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	17	21 J	pg/g	BH136-18: 1-3 ft BGS (1/8/2018)	1/1	--	21 J	--			Refer to Total TEQ
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	29 J	30	pg/g	BH136-18: 1-3 ft BGS (1/8/2018)	1/1	--	30	--			Refer to Total TEQ
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran (TCDF)	110	200	pg/g	BH136-18: 1-3 ft BGS (1/8/2018)	1/1	--	200	--			Refer to Total TEQ
1746-01-6	2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	1.3 J	2.0 J	pg/g	BH136-18: 1-3 ft BGS (1/8/2018)	1/1	--	2.0 J	--			Refer to Total TEQ
38998-75-3	Total heptachlorodibenzofuran (HpCDF)	140 J	180 J	pg/g	BH136-18: 1-3 ft BGS (1/8/2018)	1/1	--	180 J	--			Refer to Total TEQ
37871-00-4	Total heptachlorodibenzo-p-dioxin (HpCDD)	260 J	300 J	pg/g	BH136-18: 1-3 ft BGS (1/8/2018)	1/1	--	300 J	--			Refer to Total TEQ
55684-94-1	Total hexachlorodibenzofuran (HxCDF)	190 J	230 J	pg/g	BH136-18: 1-3 ft BGS (1/8/2018)	1/1	--	230 J	--			Refer to Total TEQ
34465-46-8	Total hexachlorodibenzo-p-dioxin (HxCDD)	150 J	160 J	pg/g	BH136-18: 1-3 ft BGS (1/8/2018)	1/1	--	160 J	--			Refer to Total TEQ
30402-15-4	Total pentachlorodibenzofuran (PeCDF)	290 J	300 J	pg/g	BH136-18: 1-3 ft BGS (1/8/2018)	1/1	--	300 J	--			Refer to Total TEQ
36088-22-9	Total pentachlorodibenzo-p-dioxin (PeCDD)	5900 J	12000 J	pg/g	BH136-18: 1-3 ft BGS (1/8/2018)	1/1	--	12000 J	--			Refer to Total TEQ
55722-27-5	Total tetrachlorodibenzofuran (TCDF)	600 J	720 J	pg/g	BH136-18: 1-3 ft BGS (1/8/2018)	1/1	--	720 J	--			Refer to Total TEQ
41903-57-5	Total tetrachlorodibenzo-p-dioxin (TCDD)	38 J	60 J	pg/g	BH136-18: 1-3 ft BGS (1/8/2018)	1/1	--	60 J	--			Refer to Total TEQ
TOTALTEQND0	**Total TEQ (DL @ 0)**	**37.4929**	**46.4895**	**pg/g**	**BH136-18: 1-3 ft BGS (1/8/2018)**	**1/1**	**--**	**46.4895**	**4.8**	**C**	**Y**	**ASV**
TOTALTEQND0.5	**Total TEQ (DL @ Half)**	**45.0124**	**49.7395**	**pg/g**	**BH136-18: 1-3 ft BGS (1/8/2018)**	**1/1**	**--**	**49.7395**	**4.8**	**C**	**Y**	**ASV**

Table 25

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU16 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU16 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)	COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Asbestos										
1332-21-4	Asbestos	ND	ND	%	--	0/1	1	N/A	--	N	ND

Notes:

(1) Minimum/maximum detected concentration.
(2) Based on data collected from sampling locations: BH36-13, BH136-18.
(3) Regional Screening Level (RSL) Summary Table (TR = 1E-06, HI = 0.1) , Residential Soil, November 2018.
(4) Rationale Codes
Selection Reason: Maximum detected above Screening Value (ASV)
Analyte Detected and no Screening Value available (AD)
Deletion Reason: Maximum detected below Screening Value (BSV)
Naturally Occurring (NAT)
(5) No screening value available, surrogate screening value implemented as follows:

Chemical		Surrogate
1,3-dichlorobenzene	-	1,2-dichlorobenzene
methyl cyclohexane	-	cyclohexane
3&4-methylphenol	-	3-methylphenol
acenaphthylene	-	acenaphthene
benzo(g,h,i)perylene	-	pyrene
phenanthrene	-	pyrene
dimethylphthalate	-	diethylphthalate

Defintions:

-- = Not Available
N = Noncarcinogen
C = Carcinogen
Y = Yes
N = No
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.

Table 26

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU16 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU16 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Volatile Organic Compounds											
71-55-6	1,1,1-Trichloroethane	ND	ND	µg/kg	--	0/22	0.24 - 3100	N/A	810000	N	N	ND
79-34-5	1,1,2,2-Tetrachloroethane	ND	ND	µg/kg	--	0/21	0.27 - 3100	N/A	600	C	N	ND
79-00-5	1,1,2-Trichloroethane	8.3	8.3	µg/kg	BH08-09: 3-5 ft BGS (6/20/2009)	1/22	0.41 - 3100	8.3	150	N	N	BSV
75-34-3	**1,1-Dichloroethane**	**0.46 J**	**280 J**	**µg/kg**	**BH38-13: 2-4 ft BGS (6/27/2013)**	**3/22**	**0.34 - 3100**	**280 J**	**3.6**	**C**	**Y**	**ASV**
75-35-4	1,1-Dichloroethene	3.5 J	49 J	µg/kg	BH38-13: 2-4 ft BGS (6/27/2013)	3/22	0.56 - 3100	49 J	23000	N	N	BSV
120-82-1	1,2,4-Trichlorobenzene	24 J	24 J	µg/kg	TP-5: 12 ft BGS (10/6/2008)	1/21	0.25 - 3100	24 J	5800	N	N	BSV
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	ND	µg/kg	--	0/21	0.71 - 6300	N/A	5.3	C	N	ND
106-93-4	1,2-Dibromoethane (Ethylene dibromide)	ND	ND	µg/kg	--	0/22	0.36 - 3100	N/A	36	C	N	ND
95-50-1	1,2-Dichlorobenzene	42 J	47 J	µg/kg	TT-21: 8 ft BGS (10/8/2008)	2/21	0.23 - 3100	47 J	180000	N	N	BSV
107-06-2	1,2-Dichloroethane	49	49	µg/kg	BH08-09: 3-5 ft BGS (6/20/2009)	1/22	0.3 - 3100	49	460	C	N	BSV
78-87-5	1,2-Dichloropropane	ND	ND	µg/kg	--	0/22	0.32 - 3100	N/A	1600	N	N	ND
541-73-1	1,3-Dichlorobenzene	44 J	44 J	µg/kg	TP-5: 12 ft BGS (10/6/2008)	1/21	0.3 - 3100	44 J	180000 (5)	N	N	BSV
106-46-7	1,4-Dichlorobenzene	17 J	89 J	µg/kg	TT-7: 6 ft BGS (10/7/2008)	3/21	0.36 - 3100	89 J	2600	C	N	BSV
78-93-3	2-Butanone (Methyl ethyl ketone) (MEK)	2.1 J	170 J	µg/kg	BH141-18: 6-8 ft BGS (1/9/2018)	7/22	1.6 - 13000	170 J	2700000	N	N	BSV
591-78-6	2-Hexanone	ND	ND	µg/kg	--	0/22	0.6 - 13000	N/A	20000	N	N	ND
108-10-1	4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	0.90 J	900 J	µg/kg	BH42-13: 2-4 ft BGS (7/1/2013)	3/22	0.93 - 12000	900 J	3300000	N	N	BSV
67-64-1	Acetone	9.9 J	1400 J	µg/kg	BH141-18: 6-8 ft BGS (1/9/2018)	5/22	4 - 13000	1400 J	6100000	N	N	BSV
71-43-2	Benzene	1.5 J	530 J	µg/kg	TT-22: 6 ft BGS (10/8/2008)	10/22	0.33 - 1800	530 J	1200	C	N	BSV
75-27-4	Bromodichloromethane	ND	ND	µg/kg	--	0/22	0.34 - 3100	N/A	290	C	N	ND
75-25-2	Bromoform	ND	ND	µg/kg	--	0/22	0.42 - 3100	N/A	19000	C	N	ND
74-83-9	Bromomethane (Methyl bromide)	ND	ND	µg/kg	--	0/22	0.61 - 3100	N/A	680	N	N	ND
75-15-0	Carbon disulfide	0.38 J	6.4 J	µg/kg	TP-6: 11 ft BGS (10/6/2008)	5/22	0.27 - 3100	6.4 J	77000	N	N	BSV
56-23-5	Carbon tetrachloride	ND	ND	µg/kg	--	0/22	0.26 - 3100	N/A	650	C	N	ND
108-90-7	**Chlorobenzene**	**14 J**	**100000**	**µg/kg**	**GP01-18: 5.5-6.5 ft bgs (1/25/2018)**	**6/22**	**0.34 - 3100**	**100000**	**28000**	**N**	**Y**	**ASV**
75-00-3	Chloroethane	ND	ND	µg/kg	--	0/22	0.4 - 3100	N/A	1400000	N	N	ND
67-66-3	Chloroform (Trichloromethane)	ND	ND	µg/kg	--	0/22	0.24 - 3100	N/A	320	C	N	ND
74-87-3	Chloromethane (Methyl chloride)	ND	ND	µg/kg	--	0/22	0.4 - 3100	N/A	11000	N	N	ND
156-59-2	cis-1,2-Dichloroethene	0.39 J	4200	µg/kg	BH136-18: 1-3 ft BGS (1/8/2018)	12/22	0.29 - 1800	4200	16000	N	N	BSV
10061-01-5	cis-1,3-Dichloropropene	ND	ND	µg/kg	--	0/22	0.27 - 3100	N/A	1800	C	N	ND
110-82-7	Cyclohexane	1.8 J	600 J	µg/kg	BH38-13: 2-4 ft BGS (6/27/2013)	4/22	0.22 - 6300	600 J	650000	N	N	BSV
124-48-1	Dibromochloromethane	ND	ND	µg/kg	--	0/22	0.31 - 3100	N/A	8300	C	N	ND
75-71-8	Dichlorodifluoromethane (CFC-12)	ND	ND	µg/kg	--	0/22	0.36 - 3100	N/A	8700	N	N	ND
100-41-4	**Ethylbenzene**	**6.8**	**210000 J**	**µg/kg**	**TT-24: 13-15 ft BGS (3/20/2018)**	**11/22**	**0.28 - 670**	**210000 J**	**5800**	**C**	**Y**	**ASV**
98-82-8	Isopropyl benzene	0.41 J	15000 J	µg/kg	TT-24: 13-15 ft BGS (3/20/2018)	8/22	0.21 - 1800	15000 J	190000	N	N	BSV
79-20-9	Methyl acetate	65 J	690 J	µg/kg	BH42-13: 2-4 ft BGS (7/1/2013)	5/22	1.2 - 3600	690 J	7800000	N	N	BSV
108-87-2	Methyl cyclohexane	0.44 J	14000 J	µg/kg	TT-24: 13-15 ft BGS (3/20/2018)	12/22	0.24 - 3600	14000 J	650000 (5)	N	N	BSV
1634-04-4	Methyl tert butyl ether (MTBE)	ND	ND	µg/kg	--	0/22	0.28 - 7100	N/A	47000	C	N	ND
75-09-2	Methylene chloride	0.84 J	30	µg/kg	TT-24: 2-4 ft bgs (3/20/2018)	2/22	0.33 - 6100	30	35000	N	N	BSV
100-42-5	Styrene	ND	ND	µg/kg	--	0/22	0.28 - 3100	N/A	600000	N	N	ND
127-18-4	**Tetrachloroethene**	**0.56 J**	**40000**	**µg/kg**	**BH139-18: 13-15 ft BGS (1/4/2018)**	**5/22**	**0.39 - 3000**	**40000**	**8100**	**N**	**Y**	**ASV**
108-88-3	Toluene	0.38 J	12000	µg/kg	BH42-13: 2-4 ft BGS (7/1/2013)	15/22	0.47 - 1800	12000	490000	N	N	BSV

Table 26

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU16 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU16 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Volatile Organic Compounds (cont.'d)											
156-60-5	trans-1,2-Dichloroethene	0.95 J	290 J	µg/kg	BH42-13: 2-4 ft BGS (7/1/2013)	6/22	0.4 - 1800	290 J	160000	N	N	BSV
10061-02-6	trans-1,3-Dichloropropene	ND	ND	µg/kg	--	0/22	0.22 - 3100	N/A	1800	C	N	ND
79-01-6	**Trichloroethene**	**0.51 J**	**25000**	**µg/kg**	**BH139-18: 13-15 ft BGS (1/4/2018)**	**11/22**	**0.6 - 3100**	**25000**	**410**	**N**	**Y**	**ASV**
75-69-4	Trichlorofluoromethane (CFC-11)	ND	ND	µg/kg	--	0/22	0.25 - 3100	N/A	2300000	N	N	ND
76-13-1	Trifluorotrichloroethane (CFC-113)	ND	ND	µg/kg	--	0/22	0.51 - 3100	N/A	670000	N	N	ND
75-01-4	**Vinyl chloride**	**3.0 J**	**200 J**	**µg/kg**	**BH38-13: 2-4 ft BGS (6/27/2013)**	**5/22**	**0.29 - 3100**	**200 J**	**59**	**C**	**Y**	**ASV**
1330-20-7	**Xylenes (total)**	**1.9 J**	**590000 J**	**µg/kg**	**TT-24: 13-15 ft BGS (3/20/2018)**	**12/22**	**0.42 - 530**	**590000 J**	**58000**	**N**	**Y**	**ASV**
	Semi-Volatiles Organic Compounds											
108-60-1	2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ND	ND	µg/kg	--	0/15	13 - 3000	N/A	310000	N	N	ND
95-95-4	2,4,5-Trichlorophenol	ND	ND	µg/kg	--	0/15	35 - 4500	N/A	630000	N	N	ND
88-06-2	2,4,6-Trichlorophenol	ND	ND	µg/kg	--	0/15	12 - 4500	N/A	6300	N	N	ND
120-83-2	2,4-Dichlorophenol	ND	ND	µg/kg	--	0/15	28 - 4500	N/A	19000	N	N	ND
105-67-9	2,4-Dimethylphenol	ND	ND	µg/kg	--	0/15	28 - 4500	N/A	130000	N	N	ND
51-28-5	2,4-Dinitrophenol	ND	ND	µg/kg	--	0/15	29 - 9900	N/A	13000	N	N	ND
121-14-2	2,4-Dinitrotoluene	ND	ND	µg/kg	--	0/15	24 - 6000	N/A	1700	C	N	ND
606-20-2	2,6-Dinitrotoluene	ND	ND	µg/kg	--	0/15	29 - 6000	N/A	360	C	N	ND
91-58-7	2-Chloronaphthalene	ND	ND	µg/kg	--	0/15	0.63 - 1500	N/A	480000	N	N	ND
95-57-8	2-Chlorophenol	ND	ND	µg/kg	--	0/15	11 - 1500	N/A	39000	N	N	ND
91-57-6	2-Methylnaphthalene	17 J	4800	µg/kg	TT-24: 13-15 ft BGS (3/20/2018)	12/15	8.2 - 82	4800	240000	N	N	BSV
95-48-7	2-Methylphenol	25 J	25 J	µg/kg	BH138-18: 8-10 ft BGS (1/9/2018)	1/15	19 - 6000	25 J	320000	N	N	BSV
88-74-4	2-Nitroaniline	ND	ND	µg/kg	--	0/15	13 - 6000	N/A	63000	n	N	ND
88-75-5	2-Nitrophenol	ND	ND	µg/kg	--	0/15	12 - 1500	N/A	--		N	ND
3/4-Cresol	3&4-Methylphenol	35 J	98 J	µg/kg	BH137-18: 13-15 ft BGS (1/8/2018)	2/9	34 - 1200	98 J	320000 (5)	N	N	BSV
91-94-1	3,3'-Dichlorobenzidine	ND	ND	µg/kg	--	0/15	25 - 3000	N/A	1200	c	N	ND
99-09-2	3-Nitroaniline	ND	ND	µg/kg	--	0/15	22 - 6000	N/A	--		N	ND
106-44-5	4-Methylphenol	ND	ND	µg/kg	--	0/6	240 - 6000	N/A	630000	N	N	ND
534-52-1	4,6-Dinitro-2-methylphenol	ND	ND	µg/kg	--	0/15	13 - 4500	N/A	510	N	N	ND
101-55-3	4-Bromophenyl phenyl ether	ND	ND	µg/kg	--	0/15	18 - 1500	N/A	--		N	ND
59-50-7	4-Chloro-3-methylphenol	ND	ND	µg/kg	--	0/15	29 - 4500	N/A	630000	N	N	ND
106-47-8	4-Chloroaniline	ND	ND	µg/kg	--	0/15	24 - 4500	N/A	2700	C	N	ND
7005-72-3	4-Chlorophenyl phenyl ether	ND	ND	µg/kg	--	0/15	18 - 1500	N/A	--		N	ND
100-01-6	4-Nitroaniline	ND	ND	µg/kg	--	0/15	36 - 6000	N/A	25000	N	N	ND
100-02-7	4-Nitrophenol	ND	ND	µg/kg	--	0/15	24 - 9900	N/A	--		N	ND
83-32-9	Acenaphthene	33	2600	µg/kg	TT-7: 6 ft BGS (10/7/2008)	6/15	1.1 - 200	2600	360000	N	N	BSV
208-96-8	Acenaphthylene	8.7 J	27	µg/kg	BH141-18: 6-8 ft BGS (1/9/2018)	2/15	0.49 - 200	27	360000 (5)	N	N	BSV
98-86-2	Acetophenone	130 J	130 J	µg/kg	BH138-18: 8-10 ft BGS (1/9/2018)	1/15	16 - 3000	130 J	780000	N	N	BSV
120-12-7	Anthracene	33	2900	µg/kg	TT-7: 6 ft BGS (10/7/2008)	5/15	1.1 - 200	2900	1800000	N	N	BSV
1912-24-9	Atrazine	ND	ND	µg/kg	--	0/15	13 - 6000	N/A	2400	C	N	ND
100-52-7	Benzaldehyde	36 J	150	µg/kg	BH138-18: 8-10 ft BGS (1/9/2018)	2/15	20 - 3000	150	170000	N	N	BSV
56-55-3	**Benzo(a)anthracene**	**11 J**	**6400**	**µg/kg**	**TT-7: 6 ft BGS (10/7/2008)**	**9/15**	**8.2 - 200**	**6400**	**1100**	**C**	**Y**	**ASV**
50-32-8	**Benzo(a)pyrene**	**31**	**4500**	**µg/kg**	**TT-7: 6 ft BGS (10/7/2008)**	**7/15**	**1.1 - 170**	**4500**	**110**	**C**	**Y**	**ASV**

Table 26

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU16 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU16 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Semi-Volatiles Organic Compounds (cont.'d)											
205-99-2	**Benzo(b)fluoranthene**	**9.0 J**	**6200**	**µg/kg**	**TT-7: 6 ft BGS (10/7/2008)**	**11/15**	**8.2 - 170**	**6200**	**1100**	**C**	**Y**	**ASV**
191-24-2	Benzo(g,h,i)perylene	16	2300	µg/kg	TT-7: 6 ft BGS (10/7/2008)	7/15	0.6 - 170	2300	180000 (5)	N	N	BSV
207-08-9	Benzo(k)fluoranthene	16	2400	µg/kg	TT-7: 6 ft BGS (10/7/2008)	7/15	1.2 - 170	2400	11000	C	N	BSV
92-52-4	Biphenyl (1,1-Biphenyl)	15 J	740 J	µg/kg	TT-24: 13-15 ft BGS (3/20/2018)	9/15	60 - 1500	740 J	4700	N	N	BSV
111-91-1	bis(2-Chloroethoxy)methane	ND	ND	µg/kg	--	0/15	31 - 3000	N/A	19000	N	N	ND
111-44-4	bis(2-Chloroethyl)ether	ND	ND	µg/kg	--	0/15	2.8 - 3000	N/A	230	C	N	ND
117-81-7	bis(2-Ethylhexyl)phthalate (DEHP)	270	2000	µg/kg	BH140-18: 13-15 ft BGS (1/8/2018)	3/15	26 - 4100	2000	39000	C	N	BSV
85-68-7	Butyl benzylphthalate (BBP)	ND	ND	µg/kg	--	0/15	14 - 1500	N/A	290000	C	N	ND
105-60-2	Caprolactam	ND	ND	µg/kg	--	0/15	51 - 9900	N/A	3100000	N	N	ND
86-74-8	Carbazole	ND	ND	µg/kg	--	0/15	38 - 1700	N/A	--		N	ND
218-01-9	Chrysene	11 J	5700	µg/kg	TT-7: 6 ft BGS (10/7/2008)	11/15	8.2 - 82	5700	110000	C	N	BSV
53-70-3	Dibenz(a,h)anthracene	53	53	µg/kg	TT-24: 2-4 ft bgs (3/20/2018)	1/15	0.92 - 200	53	110	C	N	BSV
132-64-9	Dibenzofuran	20 J	860 J	µg/kg	TT-7: 6 ft BGS (10/7/2008)	5/15	1.1 - 1500	860 J	7300	N	N	BSV
84-66-2	Diethyl phthalate	36 J	690 J	µg/kg	BH139-18: 13-15 ft BGS (1/4/2018)	2/15	22 - 1500	690 J	5100000	N	N	BSV
131-11-3	Dimethyl phthalate	680	680	µg/kg	BH141-18: 6-8 ft BGS (1/9/2018)	1/15	24 - 1500	680	5100000 (5)	N	N	BSV
84-74-2	Di-n-butylphthalate (DBP)	63 J	6000	µg/kg	TT-24: 13-15 ft BGS (3/20/2018)	5/15	60 - 1500	6000	630000	N	N	BSV
117-84-0	Di-n-octyl phthalate (DnOP)	ND	ND	µg/kg	--	0/15	11 - 1500	N/A	63000	N	N	ND
206-44-0	Fluoranthene	21 J	21000	µg/kg	TT-7: 6 ft BGS (10/7/2008)	14/15	8.2	21000	240000	N	N	BSV
86-73-7	Fluorene	12 J	2000	µg/kg	TT-7: 6 ft BGS (10/7/2008)	8/15	0.74 - 200	2000	240000	N	N	BSV
118-74-1	Hexachlorobenzene	ND	ND	µg/kg	--	0/15	2.9 - 200	N/A	210	C	N	ND
87-68-3	Hexachlorobutadiene	ND	ND	µg/kg	--	0/15	7.8 - 1500	N/A	1200	C	N	ND
77-47-4	Hexachlorocyclopentadiene	ND	ND	µg/kg	--	0/14	11 - 9900	N/A	180	N	N	ND
67-72-1	Hexachloroethane	ND	ND	µg/kg	--	0/15	13 - 1500	N/A	1800	C	N	ND
193-39-5	**Indeno(1,2,3-cd)pyrene**	**13**	**2300**	**µg/kg**	**TT-7: 6 ft BGS (10/7/2008)**	**6/15**	**0.6 - 170**	**2300**	**1100**	**C**	**Y**	**ASV**
78-59-1	Isophorone	ND	ND	µg/kg	--	0/15	18 - 1500	N/A	570000	C	N	ND
91-20-3	**Naphthalene**	**14 J**	**9800**	**µg/kg**	**TT-24: 13-15 ft BGS (3/20/2018)**	**12/15**	**8.2 - 82**	**9800**	**3800**	**C**	**Y**	**ASV**
98-95-3	Nitrobenzene	ND	ND	µg/kg	--	0/15	3.1 - 3000	N/A	5100	C	N	ND
621-64-7	N-Nitrosodi-n-propylamine	ND	ND	µg/kg	--	0/15	8.8 - 1500	N/A	78	C	N	ND
86-30-6	N-Nitrosodiphenylamine	100 J	100 J	µg/kg	BH137-18: 13-15 ft BGS (1/8/2018)	1/15	29 - 1500	100 J	110000	C	N	BSV
87-86-5	Pentachlorophenol	ND	ND	µg/kg	--	0/15	13 - 4500	N/A	1000	C	N	ND
85-01-8	Phenanthrene	27	6800	µg/kg	TT-7: 6 ft BGS (10/7/2008)	14/15	8.2	6800	180000 (5)	N	N	BSV
108-95-2	Phenol	640	980 J	µg/kg	BH139-18: 13-15 ft BGS (1/4/2018)	3/15	10 - 1500	980 J	1900000	N	N	BSV
129-00-0	Pyrene	15 J	13000	µg/kg	TT-7: 6 ft BGS (10/7/2008)	14/15	8.2	13000	180000	N	N	BSV
	Metals											
7429-90-5	**Aluminum**	**2400**	**20700**	**mg/kg**	**TT-22: 6 ft BGS (10/8/2008)**	**15/15**	**--**	**20700**	**7700**	**N**	**Y**	**ASV**
7440-36-0	**Antimony**	**0.41 J**	**191 J**	**mg/kg**	**TT-22: 6 ft BGS (10/8/2008)**	**15/15**	**--**	**191 J**	**3.1**	**N**	**Y**	**ASV**
7440-38-2	**Arsenic**	**5.2**	**30**	**mg/kg**	**BH138-18: 8-10 ft BGS (1/9/2018)**	**15/15**	**--**	**30**	**0.68**	**C**	**Y**	**ASV**
7440-39-3	**Barium**	**23.7 J**	**7810**	**mg/kg**	**TP-5: 12 ft BGS (10/6/2008)**	**15/15**	**--**	**7810**	**1500**	**N**	**Y**	**ASV**
7440-41-7	Beryllium	0.23	6.9	mg/kg	BH141-18: 6-8 ft BGS (1/9/2018)	15/15	--	6.9	16	N	N	BSV
7440-43-9	**Cadmium**	**0.28**	**29**	**mg/kg**	**BH140-18: 13-15 ft BGS (1/8/2018)**	**14/15**	**0.6**	**29**	**7.1**	**N**	**Y**	**ASV**
7440-70-2	Calcium	2600 J	146000	mg/kg	TP-6: 11 ft BGS (10/6/2008)	15/15	--	146000	--		N	NAT

Table 26

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU16 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU16 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Metals (cont.'d)											
16065-83-1	Chromium III (trivalent)	7.7	320	mg/kg	BH142-18: 8-10 ft BGS (1/4/2018)	15/15	--	320	12000	N	N	BSV
18540-29-9	**Chromium VI (hexavalent)**	**1**	**26**	**mg/kg**	**TP-5: 12 ft BGS (10/6/2008)**	**11/15**	**0.26 - 3**	**26**	**0.3**	**C**	**Y**	**ASV**
7440-48-4	**Cobalt**	**2.9 J**	**37**	**mg/kg**	**BH139-18: 13-15 ft BGS (1/4/2018)**	**15/15**	**--**	**37**	**2.3**	**N**	**Y**	**ASV**
7440-50-8	**Copper**	**29**	**7340 J**	**mg/kg**	**TT-7: 6 ft BGS (10/7/2008)**	**15/15**	**--**	**7340 J**	**310**	**N**	**Y**	**ASV**
57-12-5	**Cyanide (total)**	**0.12 J**	**11**	**mg/kg**	**TT-24: 13-15 ft BGS (3/20/2018)**	**11/14**	**0.15 - 0.64**	**11**	**2.3**	**N**	**Y**	**ASV**
7439-89-6	**Iron**	**5700**	**210000**	**mg/kg**	**BH142-18: 8-10 ft BGS (1/4/2018)**	**15/15**	**--**	**210000**	**5500**	**N**	**Y**	**ASV**
7439-92-1	**Lead**	**9.4 J**	**16000**	**mg/kg**	**BH139-18: 13-15 ft BGS (1/4/2018)**	**15/15**	**--**	**16000**	**400**	**C**	**Y**	**ASV**
7439-95-4	Magnesium	722	97000	mg/kg	BH139-18: 13-15 ft BGS (1/4/2018)	15/15	--	97000	--		N	NAT
7439-96-5	**Manganese**	**37**	**1400**	**mg/kg**	**BH142-18: 8-10 ft BGS (1/4/2018)**	**15/15**	**--**	**1400**	**180**	**N**	**Y**	**ASV**
7439-97-6	**Mercury**	**0.035 J**	**3.9**	**mg/kg**	**BH140-18: 13-15 ft BGS (1/8/2018)**	**14/15**	**0.021 - 0.12**	**3.9**	**1.1**	**N**	**Y**	**ASV**
7440-02-0	**Nickel**	**10**	**860**	**mg/kg**	**BH142-18: 8-10 ft BGS (1/4/2018)**	**15/15**	**--**	**860**	**150**	**N**	**Y**	**ASV**
7440-09-7	Potassium	262 J	1270	mg/kg	TP-6: 11 ft BGS (10/6/2008)	15/15	--	1270	--		N	NAT
7782-49-2	Selenium	0.52 J	38	mg/kg	BH141-18: 6-8 ft BGS (1/9/2018)	11/15	30.8 - 161	38	39	N	N	BSV
7440-22-4	Silver	0.10 J	5.0 J	mg/kg	BH136-18: 1-3 ft BGS (1/8/2018)	14/15	1.2	5.0 J	39	N	N	BSV
7440-23-5	Sodium	110 J	1510	mg/kg	TP-5: 12 ft BGS (10/6/2008)	14/15	599	1510	--		N	NAT
7440-28-0	**Thallium**	**0.086 J**	**2.4**	**mg/kg**	**BH141-18: 6-8 ft BGS (1/9/2018)**	**10/15**	**0.12 - 3**	**2.4**	**0.078**	**N**	**Y**	**ASV**
7440-62-2	**Vanadium**	**11**	**79**	**mg/kg**	**BH141-18: 6-8 ft BGS (1/9/2018)**	**15/15**	**--**	**79**	**39**	**N**	**Y**	**ASV**
7440-66-6	**Zinc**	**26.9**	**19000**	**mg/kg**	**BH140-18: 13-15 ft BGS (1/8/2018)**	**15/15**	**--**	**19000**	**2300**	**N**	**Y**	**ASV**
	Polychlorinated Biphenyls											
12674-11-2	Aroclor-1016 (PCB-1016)	ND	ND	µg/kg	--	0/16	22 - 2100	N/A	410	N	N	ND
11104-28-2	Aroclor-1221 (PCB-1221)	ND	ND	µg/kg	--	0/16	24 - 2100	N/A	200	C	N	ND
11141-16-5	Aroclor-1232 (PCB-1232)	ND	ND	µg/kg	--	0/16	23 - 2100	N/A	170	C	N	ND
53469-21-9	**Aroclor-1242 (PCB-1242)**	**53**	**29000**	**µg/kg**	**BH140-18: 13-15 ft BGS (1/8/2018)**	**6/16**	**19 - 120**	**29000**	**230**	**C**	**Y**	**ASV**
12672-29-6	Aroclor-1248 (PCB-1248)	59 J	160	µg/kg	TT-24: 2-4 ft bgs (3/20/2018)	2/16	25 - 2100	160	230	C	N	BSV
11097-69-1	**Aroclor-1254 (PCB-1254)**	**51**	**10000**	**µg/kg**	**BH140-18: 13-15 ft BGS (1/8/2018)**	**10/16**	**23 - 41**	**10000**	**120**	**C**	**Y**	**ASV**
11096-82-5	Aroclor-1260 (PCB-1260)	58 J	63	µg/kg	TT-24: 2-4 ft bgs (3/20/2018)	2/16	23 - 2100	63	240	C	N	BSV
	Pesticides											
72-54-8	4,4'-DDD	ND	ND	µg/kg	--	0/14	2.1 - 260	N/A	190	C	N	ND
72-55-9	4,4'-DDE	93 J	93 J	µg/kg	TT-7: 6 ft BGS (10/7/2008)	1/14	2.1 - 260	93 J	2000	C	N	BSV
50-29-3	4,4'-DDT	110 J	110 J	µg/kg	TP-5: 12 ft BGS (10/6/2008)	1/14	2.1 - 260	110 J	1900	C	N	BSV
309-00-2	Aldrin	ND	ND	µg/kg	--	0/14	2.1 - 260	N/A	39	C	N	ND
319-84-6	alpha-BHC	ND	ND	µg/kg	--	0/14	2.1 - 260	N/A	86	C	N	ND
5103-71-9	alpha-Chlordane	ND	ND	µg/kg	--	0/14	2.1 - 260	N/A	1700	C	N	ND
319-85-7	beta-BHC	ND	ND	µg/kg	--	0/14	2.1 - 260	N/A	300	C	N	ND
319-86-8	delta-BHC	130 J	130 J	µg/kg	BH141-18: 6-8 ft BGS (1/9/2018)	1/14	2.1 - 260	130 J	300	C	N	BSV
60-57-1	**Dieldrin**	**68 J**	**68 J**	**µg/kg**	**TP-5: 12 ft BGS (10/6/2008)**	**1/14**	**2.1 - 260**	**68 J**	**34**	**C**	**Y**	**ASV**
959-98-8	Endosulfan I	ND	ND	µg/kg	--	0/14	2.1 - 260	N/A	47000	N	N	ND
33213-65-9	Endosulfan II	ND	ND	µg/kg	--	0/14	2.1 - 260	N/A	47000	N	N	ND
1031-07-8	Endosulfan sulfate	ND	ND	µg/kg	--	0/14	2.1 - 260	N/A	47000	N	N	ND

Table 26

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU16 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU16 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Pesticides (cont.'d)											
72-20-8	Endrin	ND	ND	µg/kg	--	0/14	2.1 - 260	N/A	1900	N	N	ND
7421-93-4	Endrin aldehyde	ND	ND	µg/kg	--	0/14	2.1 - 260	N/A	1900	N	N	ND
53494-70-5	Endrin ketone	ND	ND	µg/kg	--	0/14	2.1 - 260	N/A	1900	N	N	ND
58-89-9	gamma-BHC (lindane)	ND	ND	µg/kg	--	0/14	2.1 - 260	N/A	570	C	N	ND
5103-74-2	gamma-Chlordane	ND	ND	µg/kg	--	0/14	2.1 - 260	N/A	1700	C	N	ND
76-44-8	Heptachlor	ND	ND	µg/kg	--	0/14	2.1 - 260	N/A	130	C	N	ND
1024-57-3	Heptachlor epoxide	ND	ND	µg/kg	--	0/14	2.1 - 260	N/A	70	C	N	ND
72-43-5	Methoxychlor	ND	ND	µg/kg	--	0/14	4.1 - 500	N/A	32000	N	N	ND
8001-35-2	Toxaphene	ND	ND	µg/kg	--	0/14	82 - 10000	N/A	490	C	N	ND
	Herbicides											
93-72-1	2,4,5-TP (Silvex)	ND	ND	µg/kg	--	0/5	25 - 2600	N/A	51000	N	N	ND
94-75-7	2,4-Dichlorophenoxyacetic acid (2,4-D)	ND	ND	µg/kg	--	0/5	98 - 10000	N/A	70000	N	N	ND
	Dioxins/Furans											
39001-02-0	1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	7.4 J	730	pg/g	TT-24: 13-15 ft BGS (3/20/2018)	9/9	--	730	--			Refer to Total TEQ
3268-87-9	1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	44	6300	pg/g	TT-24: 13-15 ft BGS (3/20/2018)	9/9	--	6300	--			Refer to Total TEQ
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	6.0 J	870	pg/g	TT-24: 13-15 ft BGS (3/20/2018)	9/9	--	870	--			Refer to Total TEQ
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	8.9	1400	pg/g	BH142-18: 8-10 ft BGS (1/4/2018)	9/9	--	1400	--			Refer to Total TEQ
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	0.33 J	68	pg/g	TT-24: 13-15 ft BGS (3/20/2018)	9/9	--	68	--			Refer to Total TEQ
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	3.5 J	340	pg/g	TT-24: 13-15 ft BGS (3/20/2018)	9/9	--	340	--			Refer to Total TEQ
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	0.30 J	48 J	pg/g	BH137-18: 13-15 ft BGS (1/8/2018)	9/9	0.39	48 J	--			Refer to Total TEQ
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	3.8 J	110 J	pg/g	TT-24: 13-15 ft BGS (3/20/2018)	9/9	--	110 J	--			Refer to Total TEQ
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	1.1 J	810	pg/g	BH142-18: 8-10 ft BGS (1/4/2018)	9/9	--	810	--			Refer to Total TEQ
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	0.88 J	0.88 J	pg/g	BH136-18: 1-3 ft BGS (1/8/2018)	1/9	0.34 - 8	0.88 J	--			Refer to Total TEQ
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	1.0 J	510	pg/g	BH142-18: 8-10 ft BGS (1/4/2018)	9/9	--	510	--			Refer to Total TEQ
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	0.84 J	66	pg/g	TT-24: 13-15 ft BGS (3/20/2018)	9/9	--	66	--			Refer to Total TEQ
40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	0.83 J	430	pg/g	BH142-18: 8-10 ft BGS (1/4/2018)	8/9	6.3 - 15	430	--			Refer to Total TEQ
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	1.8 J	140	pg/g	TT-24: 13-15 ft BGS (3/20/2018)	8/9	1.5	140	--			Refer to Total TEQ
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	1.8 J	110	pg/g	TT-24: 13-15 ft BGS (3/20/2018)	9/9	--	110	--			Refer to Total TEQ
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran (TCDF)	3.7	200	pg/g	BH136-18: 1-3 ft BGS (1/8/2018)	9/9	--	200	--			Refer to Total TEQ
1746-01-6	2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	0.50 J	180	pg/g	BH142-18: 8-10 ft BGS (1/4/2018)	8/9	0.13	180	--			Refer to Total TEQ
38998-75-3	Total heptachlorodibenzofuran (HpCDF)	12 J	1700 J	pg/g	TT-24: 13-15 ft BGS (3/20/2018)	9/9	--	1700 J	--			Refer to Total TEQ
37871-00-4	Total heptachlorodibenzo-p-dioxin (HpCDD)	16 J	3800 J	pg/g	BH142-18: 8-10 ft BGS (1/4/2018)	9/9	--	3800 J	--			Refer to Total TEQ
55684-94-1	Total hexachlorodibenzofuran (HxCDF)	75 J	1400 J	pg/g	BH142-18: 8-10 ft BGS (1/4/2018)	9/9	--	1400 J	--			Refer to Total TEQ
34465-46-8	Total hexachlorodibenzo-p-dioxin (HxCDD)	11 J	8700 J	pg/g	BH142-18: 8-10 ft BGS (1/4/2018)	9/9	--	8700 J	--			Refer to Total TEQ
30402-15-4	Total pentachlorodibenzofuran (PeCDF)	140 J	1800 J	pg/g	BH142-18: 8-10 ft BGS (1/4/2018)	9/9	--	1800 J	--			Refer to Total TEQ
36088-22-9	Total pentachlorodibenzo-p-dioxin (PeCDD)	9.9 J	12000 J	pg/g	BH136-18: 1-3 ft BGS (1/8/2018)	9/9	--	12000 J	--			Refer to Total TEQ
55722-27-5	Total tetrachlorodibenzofuran (TCDF)	180 J	2800 J	pg/g	BH142-18: 8-10 ft BGS (1/4/2018)	9/9	--	2800 J	--			Refer to Total TEQ
41903-57-5	Total tetrachlorodibenzo-p-dioxin (TCDD)	10 J	7900 J	pg/g	BH142-18: 8-10 ft BGS (1/4/2018)	9/9	--	7900 J	--			Refer to Total TEQ
TOTALTEQND0	**Total TEQ (DL @ 0)**	**4.2693**	**826.164**	**pg/g**	**BH142-18: 8-10 ft BGS (1/4/2018)**	**9/9**	**--**	**826.164**	**4.8**	**C**	**Y**	**ASV**
TOTALTEQND0.5	**Total TEQ (DL @ Half)**	**4.3828**	**826.564**	**pg/g**	**BH142-18: 8-10 ft BGS (1/4/2018)**	**9/9**	**--**	**826.564**	**4.8**	**C**	**Y**	**ASV**

Table 26

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU16 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU16 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)	COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Asbestos										
1332-21-4	Asbestos	ND	ND	%	--	0/7	1	N/A	--	N	ND
12001-29-5	**Chrysotile asbestos**	**10**	**60**	**%**	**VAS-5: 7 ft BGS (12/15/2008)**	**2/3**	**1**	**60**	**--**	**Y**	**AD**

Notes:

(1) Minimum/maximum detected concentration.
(2) Based on data collected from sampling locations: BH13-13, BH34-13, BH36-13, BH38-13, BH42-13, BH44-13, BH136-18, BH137-18, BH138-18, BH139-18, BH140-18, BH141-18, BH142-18, GP01-18, GP32-18, TP-5, TP-6, TT-7, TT-21, TT-22, TT-24, VAS-5.
(3) Regional Screening Level (RSL) Summary Table (TR = 1E-06, HI = 0.1) , Residential Soil, November 2018.
(4) Rationale Codes

Selection Reason: Maximum detected above Screening Value (ASV)
Analyte Detected and no Screening Value available (AD)
Deletion Reason: Maximum detected below Screening Value (BSV)
Naturally Occurring (NAT)

(5) No screening value available, surrogate screening value implemented as follows:

Chemical		Surrogate
1,3-dichlorobenzene	-	1,2-dichlorobenzene
methyl cyclohexane	-	cyclohexane
3&4-methylphenol	-	3-methylphenol
acenaphthylene	-	acenaphthene
benzo(g,h,i)perylene	-	pyrene
phenanthrene	-	pyrene
dimethylphthalate	-	diethylphthalate

Defintions:

-- = Not Available
N = Noncarcinogen
C = Carcinogen
Y = Yes
N = No
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.

Table 27

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU17 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU17 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Volatile Organic Compounds											
71-55-6	1,1,1-Trichloroethane	ND	ND	ug/kg	--	0/11	0.29 - 1.1	N/A	810000	N	N	ND
79-34-5	1,1,2,2-Tetrachloroethane	ND	ND	ug/kg	--	0/10	0.33 - 2	N/A	600	C	N	ND
79-00-5	1,1,2-Trichloroethane	ND	ND	ug/kg	--	0/11	0.49 - 1.6	N/A	150	N	N	ND
75-34-3	1,1-Dichloroethane	ND	ND	ug/kg	--	0/11	0.42 - 0.95	N/A	3.6	C	N	ND
75-35-4	1,1-Dichloroethene	ND	ND	ug/kg	--	0/11	0.68 - 1.2	N/A	23000	N	N	ND
120-82-1	1,2,4-Trichlorobenzene	ND	ND	ug/kg	--	0/10	0.3 - 0.78	N/A	5800	N	N	ND
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	ND	ug/kg	--	0/10	0.86 - 4.9	N/A	5.3	C	N	ND
106-93-4	1,2-Dibromoethane (Ethylene dibromide)	ND	ND	ug/kg	--	0/11	0.44 - 1.1	N/A	36	C	N	ND
95-50-1	1,2-Dichlorobenzene	ND	ND	ug/kg	--	0/10	0.28 - 1.5	N/A	180000	N	N	ND
107-06-2	1,2-Dichloroethane	ND	ND	ug/kg	--	0/11	0.37 - 1.1	N/A	460	C	N	ND
78-87-5	1,2-Dichloropropane	ND	ND	ug/kg	--	0/11	0.39 - 1.2	N/A	1600	N	N	ND
541-73-1	1,3-Dichlorobenzene	ND	ND	ug/kg	--	0/10	0.37 - 1.1	N/A	180000 (5)	N	N	ND
106-46-7	1,4-Dichlorobenzene	ND	ND	ug/kg	--	0/10	0.44 - 1.2	N/A	2600	C	N	ND
78-93-3	2-Butanone (Methyl ethyl ketone) (MEK)	ND	ND	ug/kg	--	0/11	1.6 - 4.9	N/A	2700000	N	N	ND
591-78-6	2-Hexanone	ND	ND	ug/kg	--	0/11	0.73 - 5.6	N/A	20000	N	N	ND
108-10-1	4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ND	ND	ug/kg	--	0/11	1.1 - 5.1	N/A	3300000	N	N	ND
67-64-1	Acetone	ND	ND	ug/kg	--	0/11	11 - 29	N/A	6100000	N	N	ND
71-43-2	Benzene	ND	ND	ug/kg	--	0/11	0.4 - 0.96	N/A	1200	C	N	ND
75-27-4	Bromodichloromethane	ND	ND	ug/kg	--	0/11	0.42 - 0.93	N/A	290	C	N	ND
75-25-2	Bromoform	ND	ND	ug/kg	--	0/11	0.5 - 3.3	N/A	19000	C	N	ND
74-83-9	Bromomethane (Methyl bromide)	ND	ND	ug/kg	--	0/11	0.74 - 1.4	N/A	680	N	N	ND
75-15-0	Carbon disulfide	ND	ND	ug/kg	--	0/11	0.26 - 1.6	N/A	77000	N	N	ND
56-23-5	Carbon tetrachloride	ND	ND	ug/kg	--	0/11	0.32 - 4.5	N/A	650	C	N	ND
108-90-7	Chlorobenzene	ND	ND	ug/kg	--	0/11	0.42 - 1.3	N/A	28000	N	N	ND
75-00-3	Chloroethane	ND	ND	ug/kg	--	0/11	0.48 - 1.7	N/A	1400000	N	N	ND
67-66-3	Chloroform (Trichloromethane)	ND	ND	ug/kg	--	0/11	0.29 - 1.1	N/A	320	C	N	ND
74-87-3	Chloromethane (Methyl chloride)	ND	ND	ug/kg	--	0/11	0.48 - 1.4	N/A	11000	N	N	ND
156-59-2	cis-1,2-Dichloroethene	ND	ND	ug/kg	--	0/11	0.35 - 0.89	N/A	16000	N	N	ND
10061-01-5	cis-1,3-Dichloropropene	ND	ND	ug/kg	--	0/11	0.33 - 2	N/A	1800	C	N	ND
110-82-7	Cyclohexane	ND	ND	ug/kg	--	0/11	0.26 - 1.9	N/A	650000	N	N	ND
124-48-1	Dibromochloromethane	ND	ND	ug/kg	--	0/11	0.38 - 3.8	N/A	8300	C	N	ND
75-71-8	Dichlorodifluoromethane (CFC-12)	ND	ND	ug/kg	--	0/11	0.44 - 1.3	N/A	8700	N	N	ND
100-41-4	Ethylbenzene	ND	ND	ug/kg	--	0/11	0.34 - 1.4	N/A	5800	C	N	ND
98-82-8	Isopropyl benzene	ND	ND	ug/kg	--	0/11	0.25 - 1.1	N/A	190000	N	N	ND
79-20-9	Methyl acetate	ND	ND	ug/kg	--	0/11	1.5 - 4.7	N/A	7800000	N	N	ND
108-87-2	Methyl cyclohexane	ND	ND	ug/kg	--	0/11	0.29 - 1.7	N/A	650000 (5)	N	N	ND
1634-04-4	Methyl tert butyl ether (MTBE)	ND	ND	ug/kg	--	0/11	0.34 - 1.1	N/A	47000	C	N	ND
75-09-2	Methylene chloride	ND	ND	ug/kg	--	0/11	1.7 - 16	N/A	35000	N	N	ND
100-42-5	Styrene	ND	ND	ug/kg	--	0/11	0.34 - 1.6	N/A	600000	N	N	ND
127-18-4	Tetrachloroethene	1.5 J	2.4 J	ug/kg	SS-6: 0.33-2.33 ft BGS (12/20/2018)	2/11	0.47 - 0.92	2.4 J	8100	N	N	BSV
108-88-3	Toluene	ND	ND	ug/kg	--	0/11	0.43 - 1.1	N/A	490000	N	N	ND
156-60-5	trans-1,2-Dichloroethene	ND	ND	ug/kg	--	0/11	0.41 - 0.83	N/A	160000	N	N	ND

Table 27

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU17 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU17 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Volatile Organic Compounds (cont.'d)											
10061-02-6	trans-1,3-Dichloropropene	ND	ND	ug/kg	--	0/11	0.26 - 1.4	N/A	1800	C	N	ND
79-01-6	Trichloroethene	0.89 J	1.4 J	ug/kg	SS-5: 0.33-2.33 ft BGS (12/20/2018)	1/11	0.52 - 0.89	1.4 J	410	N	N	BSV
75-69-4	Trichlorofluoromethane (CFC-11)	ND	ND	ug/kg	--	0/11	0.3 - 1.5	N/A	2300000	N	N	ND
76-13-1	Trifluorotrichloroethane (CFC-113)	ND	ND	ug/kg	--	0/11	0.62 - 1.8	N/A	670000	N	N	ND
75-01-4	Vinyl chloride	ND	ND	ug/kg	--	0/11	0.35 - 1.1	N/A	59	C	N	ND
1330-20-7	Xylenes (total)	ND	ND	ug/kg	--	0/11	0.5 - 2.2	N/A	58000	N	N	ND
	Semi-Volatiles Organic Compounds											
108-60-1	2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ND	ND	ug/kg	--	0/11	11 - 80	N/A	310000	N	N	ND
95-95-4	2,4,5-Trichlorophenol	ND	ND	ug/kg	--	0/11	28 - 260	N/A	630000	N	N	ND
88-06-2	2,4,6-Trichlorophenol	ND	ND	ug/kg	--	0/11	9.9 - 240	N/A	6300	N	N	ND
120-83-2	2,4-Dichlorophenol	ND	ND	ug/kg	--	0/11	22 - 170	N/A	19000	N	N	ND
105-67-9	2,4-Dimethylphenol	ND	ND	ug/kg	--	0/11	22 - 170	N/A	130000	N	N	ND
51-28-5	2,4-Dinitrophenol	ND	ND	ug/kg	--	0/10	23 - 530	N/A	13000	N	N	ND
121-14-2	2,4-Dinitrotoluene	ND	ND	ug/kg	--	0/11	19 - 230	N/A	1700	C	N	ND
606-20-2	2,6-Dinitrotoluene	ND	ND	ug/kg	--	0/11	23 - 210	N/A	360	C	N	ND
91-58-7	2-Chloronaphthalene	ND	ND	ug/kg	--	0/11	0.5 - 53	N/A	480000	N	N	ND
95-57-8	2-Chlorophenol	ND	ND	ug/kg	--	0/11	9.1 - 69	N/A	39000	N	N	ND
91-57-6	2-Methylnaphthalene	6.8 J	120	ug/kg	SS-9: 0-2 ft BGS (12/20/2018)	11/11	--	120	240000	N	N	BSV
95-48-7	2-Methylphenol	ND	ND	ug/kg	--	0/11	12 - 120	N/A	320000	N	N	ND
88-74-4	2-Nitroaniline	ND	ND	ug/kg	--	0/11	10 - 150	N/A	63000	n	N	ND
88-75-5	2-Nitrophenol	ND	ND	ug/kg	--	0/11	9.2 - 70	N/A	--		N	ND
3/4-Cresol	3&4-Methylphenol	ND	ND	ug/kg	--	0/11	22 - 170	N/A	320000 (5)	N	N	ND
91-94-1	3,3'-Dichlorobenzidine	ND	ND	ug/kg	--	0/11	20 - 160	N/A	1200	c	N	ND
99-09-2	3-Nitroaniline	ND	ND	ug/kg	--	0/11	18 - 180	N/A	--		N	ND
534-52-1	4,6-Dinitro-2-methylphenol	ND	ND	ug/kg	--	0/11	10 - 300	N/A	510	N	N	ND
101-55-3	4-Bromophenyl phenyl ether	ND	ND	ug/kg	--	0/11	14 - 110	N/A	--		N	ND
59-50-7	4-Chloro-3-methylphenol	ND	ND	ug/kg	--	0/11	23 - 180	N/A	630000	N	N	ND
106-47-8	4-Chloroaniline	ND	ND	ug/kg	--	0/11	19 - 140	N/A	2700	C	N	ND
7005-72-3	4-Chlorophenyl phenyl ether	ND	ND	ug/kg	--	0/11	14 - 110	N/A	--		N	ND
100-01-6	4-Nitroaniline	ND	ND	ug/kg	--	0/11	29 - 230	N/A	25000	N	N	ND
100-02-7	4-Nitrophenol	ND	ND	ug/kg	--	0/11	19 - 350	N/A	--		N	ND
83-32-9	Acenaphthene	10 J	61	ug/kg	SS-5: 0.33-2.33 ft BGS (12/20/2018)	8/11	3.2 - 11	61	360000	N	N	BSV
208-96-8	Acenaphthylene	9.1 J	46 J	ug/kg	SS-7: 0-2 ft BGS (12/20/2018)	9/11	0.48 - 4.8	46 J	360000 (5)	N	N	BSV
98-86-2	Acetophenone	14 J	22 J	ug/kg	SS-7: 0-2 ft BGS (12/20/2018)	4/11	10 - 78	22 J	780000	N	N	BSV
120-12-7	Anthracene	5.5 J	310 J	ug/kg	SS-5: 0.33-2.33 ft BGS (12/20/2018)	11/11	--	310 J	1800000	N	N	BSV
1912-24-9	Atrazine	ND	ND	ug/kg	--	0/11	10 - 140	N/A	2400	C	N	ND
100-52-7	Benzaldehyde	27 J	30 J	ug/kg	SS-7: 0-2 ft BGS (12/20/2018)	2/11	13 - 100	30 J	170000	N	N	BSV
56-55-3	**Benzo(a)anthracene**	**24**	**1500 J**	**ug/kg**	**SS-5: 0.33-2.33 ft BGS (12/20/2018)**	**11/11**	**--**	**1500 J**	**1100**	**C**	**Y**	**ASV**
50-32-8	**Benzo(a)pyrene**	**24**	**1300**	**ug/kg**	**SS-5: 0.33-2.33 ft BGS (12/20/2018)**	**11/11**	**--**	**1300**	**110**	**C**	**Y**	**ASV**
205-99-2	**Benzo(b)fluoranthene**	**37**	**1900**	**ug/kg**	**SS-5: 0.33-2.33 ft BGS (12/20/2018)**	**11/11**	**--**	**1900**	**1100**	**C**	**Y**	**ASV**

Table 27

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU17 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU17 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Semi-Volatiles Organic Compounds (cont.'d)											
191-24-2	Benzo(g,h,i)perylene	19	610 J	ug/kg	SS-5: 0.33-2.33 ft BGS (12/20/2018)	11/11	--	610 J	180000 (5)	N	N	BSV
207-08-9	Benzo(k)fluoranthene	9.3 J	820 J	ug/kg	SS-5: 0.33-2.33 ft BGS (12/20/2018)	11/11	--	820 J	11000	C	N	BSV
92-52-4	Biphenyl (1,1-Biphenyl)	6.3 J	13 J	ug/kg	SS-3: 0.3-2.3 ft BGS (11/9/2017)	2/11	3.9 - 64	13 J	4700	N	N	BSV
111-91-1	bis(2-Chloroethoxy)methane	ND	ND	ug/kg	--	0/11	13 - 190	N/A	19000	N	N	ND
111-44-4	bis(2-Chloroethyl)ether	ND	ND	ug/kg	--	0/11	2.2 - 45	N/A	230	C	N	ND
117-81-7	bis(2-Ethylhexyl)phthalate (DEHP)	27 J	5100 J	ug/kg	SS-3: 0.3-2.3 ft BGS (11/9/2017)	7/11	57 - 190	5100 J	39000	C	N	BSV
85-68-7	Butyl benzylphthalate (BBP)	75 J	580	ug/kg	SS-7: 0-2 ft BGS (12/20/2018)	2/11	11 - 84	580	290000	C	N	BSV
105-60-2	Caprolactam	ND	ND	ug/kg	--	0/11	41 - 310	N/A	3100000	N	N	ND
86-74-8	**Carbazole**	**51 J**	**110 J**	**ug/kg**	**SS-5: 0.33-2.33 ft BGS (12/20/2018)**	**3/11**	**21 - 230**	**110 J**	**--**		**Y**	**AD**
218-01-9	Chrysene	25	1400 J	ug/kg	SS-5: 0.33-2.33 ft BGS (12/20/2018)	11/11	--	1400 J	110000	C	N	BSV
53-70-3	**Dibenz(a,h)anthracene**	**27**	**200 J**	**ug/kg**	**SS-5: 0.33-2.33 ft BGS (12/20/2018)**	**8/11**	**0.9 - 8.3**	**200 J**	**110**	**C**	**Y**	**ASV**
132-64-9	Dibenzofuran	15 J	43 J	ug/kg	SS-5: 0.33-2.33 ft BGS (12/20/2018)	7/11	5.6 - 49	43 J	7300	N	N	BSV
84-66-2	Diethyl phthalate	ND	ND	ug/kg	--	0/11	18 - 130	N/A	5100000	N	N	ND
131-11-3	Dimethyl phthalate	ND	ND	ug/kg	--	0/11	15 - 140	N/A	5100000 (5)	N	N	ND
84-74-2	Di-n-butylphthalate (DBP)	20 J	150 J	ug/kg	SS-3: 0.3-2.3 ft BGS (11/9/2017)	5/11	25 - 83	150 J	630000	N	N	BSV
117-84-0	Di-n-octyl phthalate (DnOP)	ND	ND	ug/kg	--	0/11	8.8 - 110	N/A	63000	N	N	ND
206-44-0	Fluoranthene	39	3200 J	ug/kg	SS-5: 0.33-2.33 ft BGS (12/20/2018)	11/11	--	3200 J	240000	N	N	BSV
86-73-7	Fluorene	5.4 J	61	ug/kg	SS-5: 0.33-2.33 ft BGS (12/20/2018)	9/11	3.3 - 10	61	240000	N	N	BSV
118-74-1	Hexachlorobenzene	ND	ND	ug/kg	--	0/11	2.3 - 18	N/A	210	C	N	ND
87-68-3	Hexachlorobutadiene	ND	ND	ug/kg	--	0/11	6.2 - 47	N/A	1200	C	N	ND
77-47-4	Hexachlorocyclopentadiene	ND	ND	ug/kg	--	0/10	9 - 230	N/A	180	N	N	ND
67-72-1	Hexachloroethane	ND	ND	ug/kg	--	0/11	9.9 - 76	N/A	1800	C	N	ND
193-39-5	Indeno(1,2,3-cd)pyrene	15 J	580 J	ug/kg	SS-5: 0.33-2.33 ft BGS (12/20/2018)	11/11	--	580 J	1100	C	N	BSV
78-59-1	Isophorone	ND	ND	ug/kg	--	0/11	13 - 110	N/A	570000	C	N	ND
91-20-3	Naphthalene	9.5 J	80	ug/kg	SS-3: 0.3-2.3 ft BGS (11/9/2017)	9/11	2.9 - 9.1	80	3800	C	N	BSV
98-95-3	Nitrobenzene	ND	ND	ug/kg	--	0/11	2.5 - 49	N/A	5100	C	N	ND
621-64-7	N-Nitrosodi-n-propylamine	ND	ND	ug/kg	--	0/11	7 - 53	N/A	78	C	N	ND
86-30-6	N-Nitrosodiphenylamine	ND	ND	ug/kg	--	0/11	13 - 180	N/A	110000	C	N	ND
87-86-5	Pentachlorophenol	ND	ND	ug/kg	--	0/11	10 - 220	N/A	1000	C	N	ND
85-01-8	Phenanthrene	21	1100	ug/kg	SS-5: 0.33-2.33 ft BGS (12/20/2018)	11/11	--	1100	180000 (5)	N	N	BSV
108-95-2	Phenol	19 J	19 J	ug/kg	SS-5: 0.33-2.33 ft BGS (12/20/2018)	1/11	8.1 - 62	19 J	1900000	N	N	BSV
129-00-0	Pyrene	32	1900	ug/kg	SS-5: 0.33-2.33 ft BGS (12/20/2018)	11/11	--	1900	180000	N	N	BSV
	Metals											
7429-90-5	**Aluminum**	**4300 J**	**14000**	**mg/kg**	**SS-6: 0.33-2.33 ft BGS (12/20/2018)**	**11/11**	**--**	**14000**	**7700**	**N**	**Y**	**ASV**
7440-36-0	**Antimony**	**0.2**	**260**	**mg/kg**	**SS-6: 0.33-2.33 ft BGS (12/20/2018)**	**11/11**	**--**	**260**	**3.1**	**N**	**Y**	**ASV**
7440-38-2	**Arsenic**	**6.2**	**29**	**mg/kg**	**SS-6: 0.33-2.33 ft BGS (12/20/2018)**	**11/11**	**--**	**29**	**0.68**	**C**	**Y**	**ASV**
7440-39-3	**Barium**	**86**	**1800**	**mg/kg**	**SS-10: 0-2 ft BGS (12/20/2018)**	**11/11**	**--**	**1800**	**1500**	**N**	**Y**	**ASV**
7440-41-7	Beryllium	0.32	3.9	mg/kg	SS-2: 0.2-2.2 ft BGS (11/9/2017)	11/11	--	3.9	16	N	N	BSV
7440-43-9	**Cadmium**	**0.24**	**20**	**mg/kg**	**SS-6: 0.33-2.33 ft BGS (12/20/2018)**	**11/11**	**--**	**20**	**7.1**	**N**	**Y**	**ASV**
7440-70-2	Calcium	8100 J	110000 J	mg/kg	SS-1: 0-2 ft BGS (11/9/2017)	11/11	--	110000 J	--		N	NAT
16065-83-1	Chromium III (trivalent)	8.1	99	mg/kg	SS-6: 0.33-2.33 ft BGS (12/20/2018)	11/11	--	99	12000	N	N	BSV

Table 27

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU17 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU17 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Metals (cont.'d)											
18540-29-9	**Chromium VI (hexavalent)**	**0.31 J**	**5.4**	**mg/kg**	**SS-3: 0.3-2.3 ft BGS (11/9/2017)**	**5/11**	**1.3 - 3.3**	**5.4**	**0.3**	**C**	**Y**	**ASV**
7440-48-4	**Cobalt**	**4.2 J**	**67 J**	**mg/kg**	**SS-5: 0.33-2.33 ft BGS (12/20/2018)**	**11/11**	**--**	**67 J**	**2.3**	**N**	**Y**	**ASV**
7440-50-8	**Copper**	**19 J**	**6000 J**	**mg/kg**	**SS-6: 0.33-2.33 ft BGS (12/20/2018)**	**11/11**	**--**	**6000 J**	**310**	**N**	**Y**	**ASV**
57-12-5	**Cyanide (total)**	**0.29 J**	**13 J**	**mg/kg**	**SS-3: 0.3-2.3 ft BGS (11/9/2017)**	**5/7**	**0.5 - 0.63**	**13 J**	**2.3**	**N**	**Y**	**ASV**
7439-89-6	**Iron**	**8300 J**	**40000**	**mg/kg**	**SS-5: 0.33-2.33 ft BGS (12/20/2018)**	**11/11**	**--**	**40000**	**5500**	**N**	**Y**	**ASV**
7439-92-1	**Lead**	**20**	**2400**	**mg/kg**	**SS-6: 0.33-2.33 ft BGS (12/20/2018)**	**11/11**	**--**	**2400**	**400**	**C**	**Y**	**ASV**
7439-92-1	**Lead - coarse fraction**	**20 J**	**4500 J**	**mg/kg**	**SS-6: 0.33-2.33 ft BGS (12/20/2018)**	**5/5**	**--**	**4500 J**	**400**	**C**	**Y**	**ASV**
7439-92-1	**Lead - fine fraction**	**47**	**2500**	**mg/kg**	**SS-6: 0.33-2.33 ft BGS (12/20/2018)**	**5/5**	**--**	**2500**	**400**	**C**	**Y**	**ASV**
7439-92-1	**Lead - total (calculated by fine/coarse fraction)**	**22**	**4100**	**mg/kg**	**SS-6: 0.33-2.33 ft BGS (12/20/2018)**	**5/5**	**--**	**4100**	**400**	**C**	**Y**	**ASV**
7439-95-4	Magnesium	2500	46000	mg/kg	SS-11: 0-2 ft BGS (12/20/2018)	11/11	--	46000	--		N	NAT
7439-96-5	**Manganese**	**140 J**	**760**	**mg/kg**	**SS-6: 0.33-2.33 ft BGS (12/20/2018)**	**11/11**	**--**	**760**	**180**	**N**	**Y**	**ASV**
7439-97-6	Mercury	0.052 J	0.39	mg/kg	SS-3: 0.3-2.3 ft BGS (11/9/2017)	11/11	--	0.39	1.1	N	N	BSV
7440-02-0	**Nickel**	**11 J**	**330**	**mg/kg**	**SS-6: 0.33-2.33 ft BGS (12/20/2018)**	**11/11**	**--**	**330**	**150**	**N**	**Y**	**ASV**
7440-09-7	Potassium	620 J	1500 J	mg/kg	SS-6: 0.33-2.33 ft BGS (12/20/2018)	11/11	--	1500 J	--		N	NAT
7782-49-2	Selenium	0.29 J	2.8 J	mg/kg	SS-2: 0.2-2.2 ft BGS (11/9/2017)	10/11	0.66	2.8 J	39	N	N	BSV
7440-22-4	Silver	0.062 J	4.9	mg/kg	SS-6: 0.33-2.33 ft BGS (12/20/2018)	10/11	0.068	4.9	39	N	N	BSV
7440-23-5	Sodium	65 J	2000 J	mg/kg	SS-5: 0.33-2.33 ft BGS (12/20/2018)	9/11	120 - 210	2000 J	--		N	NAT
7440-28-0	**Thallium**	**0.085 J**	**0.51 J**	**mg/kg**	**SS-2: 0.2-2.2 ft BGS (11/9/2017)**	**11/11**	**--**	**0.51 J**	**0.078**	**N**	**Y**	**ASV**
7440-62-2	**Vanadium**	**15 J**	**42**	**mg/kg**	**SS-6: 0.33-2.33 ft BGS (12/20/2018)**	**11/11**	**--**	**42**	**39**	**N**	**Y**	**ASV**
7440-66-6	**Zinc**	**59 J**	**4500 J**	**mg/kg**	**SS-6: 0.33-2.33 ft BGS (12/20/2018)**	**11/11**	**--**	**4500 J**	**2300**	**N**	**Y**	**ASV**
	Polychlorinated Biphenyls											
12674-11-2	Aroclor-1016 (PCB-1016)	ND	ND	ug/kg	--	0/12	24 - 65	N/A	410	N	N	ND
11104-28-2	Aroclor-1221 (PCB-1221)	ND	ND	ug/kg	--	0/12	25 - 71	N/A	200	C	N	ND
11141-16-5	Aroclor-1232 (PCB-1232)	ND	ND	ug/kg	--	0/12	18 - 68	N/A	170	C	N	ND
53469-21-9	Aroclor-1242 (PCB-1242)	ND	ND	ug/kg	--	0/12	21 - 56	N/A	230	C	N	ND
12672-29-6	Aroclor-1248 (PCB-1248)	ND	ND	ug/kg	--	0/12	19 - 71	N/A	230	C	N	ND
11097-69-1	**Aroclor-1254 (PCB-1254)**	**35 J**	**1700**	**ug/kg**	**SS-8: 0-2 ft BGS (12/20/2018)**	**9/12**	**15 - 38**	**1700**	**120**	**C**	**Y**	**ASV**
11096-82-5	Aroclor-1260 (PCB-1260)	ND	ND	ug/kg	--	0/12	20 - 65	N/A	240	C	N	ND
	Pesticides											
72-54-8	4,4'-DDD	ND	ND	ug/kg	--	0/11	1.6 - 41	N/A	190	C	N	ND
72-55-9	4,4'-DDE	2.0 J	4.8 J	ug/kg	SS-7: 0-2 ft BGS (12/20/2018)	2/11	1.4 - 15	4.8 J	2000	C	N	BSV
50-29-3	4,4'-DDT	3.1 J	9.3 NJ	ug/kg	SS-7: 0-2 ft BGS (12/20/2018)	3/11	1.2 - 17	9.3 NJ	1900	C	N	BSV
309-00-2	Aldrin	ND	ND	ug/kg	--	0/11	0.84 - 30	N/A	39	C	N	ND
319-84-6	alpha-BHC	ND	ND	ug/kg	--	0/11	1 - 20	N/A	86	C	N	ND
5103-71-9	alpha-Chlordane	12	13	ug/kg	SS-5: 0.33-2.33 ft BGS (12/20/2018)	1/11	1.7 - 47	13	1700	C	N	BSV
319-85-7	beta-BHC	ND	ND	ug/kg	--	0/11	1.9 - 49	N/A	300	C	N	ND
319-86-8	delta-BHC	ND	ND	ug/kg	--	0/11	1.5 - 16	N/A	300	C	N	ND
60-57-1	Dieldrin	7.2 J	12 J	ug/kg	SS-5: 0.33-2.33 ft BGS (12/20/2018)	3/11	1 - 11	12 J	34	C	N	BSV

Table 27

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU17 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU17 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Pesticides (cont.'d)											
959-98-8	Endosulfan I	ND	ND	ug/kg	--	0/11	1.3 - 16	N/A	47000	N	N	ND
33213-65-9	Endosulfan II	ND	ND	ug/kg	--	0/11	1.6 - 22	N/A	47000	N	N	ND
1031-07-8	Endosulfan sulfate	ND	ND	ug/kg	--	0/11	1.4 - 15	N/A	47000	N	N	ND
72-20-8	Endrin	2.6 NJ	2.6 NJ	ug/kg	SS-2: 0.2-2.2 ft BGS (11/9/2017)	1/11	1.6 - 17	2.6 NJ	1900	N	N	BSV
7421-93-4	Endrin aldehyde	1.7 NJ	3.0 J	ug/kg	SS-2: 0.2-2.2 ft BGS (11/9/2017)	2/11	1.4 - 22	3.0 J	1900	N	N	BSV
53494-70-5	Endrin ketone	ND	ND	ug/kg	--	0/11	0.97 - 14	N/A	1900	N	N	ND
58-89-9	gamma-BHC (lindane)	ND	ND	ug/kg	--	0/11	2 - 36	N/A	570	C	N	ND
5103-74-2	gamma-Chlordane	1.4 NJ	12	ug/kg	SS-5: 0.33-2.33 ft BGS (12/20/2018)	2/11	1.4 - 19	12	1700	C	N	BSV
76-44-8	Heptachlor	ND	ND	ug/kg	--	0/11	0.88 - 11	N/A	130	C	N	ND
1024-57-3	Heptachlor epoxide	2.1 J	3.5 NJ	ug/kg	SS-6: 0.33-2.33 ft BGS (12/20/2018)	2/11	1.6 - 30	3.5 NJ	70	C	N	BSV
72-43-5	Methoxychlor	1.6 NJ	19 NJ	ug/kg	SS-3: 0.3-2.3 ft BGS (11/9/2017)	3/11	7.2 - 46	19 NJ	32000	N	N	BSV
8001-35-2	Toxaphene	ND	ND	ug/kg	--	0/11	27 - 460	N/A	490	C	N	ND
	Herbicides											
93-76-5	2,4,5-T	ND	ND	ug/kg	--	0/6	15 - 17	N/A	63000	N	N	ND
93-72-1	2,4,5-TP (Silvex)	ND	ND	ug/kg	--	0/6	16 - 19	N/A	51000	N	N	ND
94-75-7	2,4-Dichlorophenoxyacetic acid (2,4-D)	ND	ND	ug/kg	--	0/6	55 - 66	N/A	70000	N	N	ND
	Asbestos											
1332-21-4	Asbestos	ND	ND	%	--	0/5	0.25	N/A	--		N	ND
12001-29-5	Chrysotile asbestos	ND	ND	%	--	0/1	0.25	N/A	--		N	ND

Notes:

(1) Minimum/maximum detected concentration.
(2) Based on data collected from sampling locations: SS-1, SS-2, SS-4, SS-6, SS-7, SS-8, SS-9, SS-10, SS-11, SS-96, SS-97, SS-127, SS-128, SS-129, SS-174, SS-175, SS-176, SS-177, SS-178, TP-9, and TT-20.
(3) Regional Screening Level (RSL) Summary Table (TR = 1E-06, HI = 0.1) , Residential Soil, November 2018.
(4) Rationale Codes

Selection Reason: Maximum detected above Screening Value (ASV)
Analyte Detected and no Screening Value available (AD)
Deletion Reason: Maximum detected below Screening Value (BSV)
Naturally Occurring (NAT)

(5) No screening value available, surrogate screening value implemented as follows:

Chemical		Surrogate
1,3-dichlorobenzene	-	1,2-dichlorobenzene
methyl cyclohexane	-	cyclohexane
3&4-methylphenol	-	3-methylphenol
acenaphthylene	-	acenaphthene
benzo(g,h,i)perylene	-	pyrene
phenanthrene	-	pyrene
dimethylphthalate	-	diethylphthalate

Defintions:

-- = Not Available
N = Noncarcinogen
C = Carcinogen
Y = Yes
N = No
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.

Table 28

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU18-EU19 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU18-EU19 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Volatile Organic Compounds											
71-55-6	1,1,1-Trichloroethane	0.71 J	2.7 J	µg/kg	SS-20: 0-2 ft BGS (10/31/2017)	2/23	0.25 - 970	2.7 J	810000	N	N	BSV
79-34-5	1,1,2,2-Tetrachloroethane	ND	ND	µg/kg	--	0/17	0.28 - 970	N/A	600	C	N	ND
79-00-5	1,1,2-Trichloroethane	ND	ND	µg/kg	--	0/20	0.42 - 970	N/A	150	N	N	ND
75-34-3	**1,1-Dichloroethane**	**560 J**	**560 J**	**µg/kg**	**BH75-13: 0-2 ft BGS (6/25/2013)**	**1/22**	**0.36 - 16**	**560 J**	**3.6**	**C**	**Y**	**ASV**
75-35-4	1,1-Dichloroethene	ND	ND	µg/kg	--	0/22	0.58 - 970	N/A	23000	N	N	ND
120-82-1	1,2,4-Trichlorobenzene	ND	ND	µg/kg	--	0/17	0.26 - 970	N/A	5800	N	N	ND
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	ND	ND	µg/kg	--	0/10	0.73 - 1900	N/A	5.3	C	N	ND
106-93-4	1,2-Dibromoethane (Ethylene dibromide)	ND	ND	µg/kg	--	0/13	0.38 - 970	N/A	36	C	N	ND
95-50-1	1,2-Dichlorobenzene	ND	ND	µg/kg	--	0/17	0.24 - 970	N/A	180000	N	N	ND
107-06-2	1,2-Dichloroethane	ND	ND	µg/kg	--	0/22	0.31 - 970	N/A	460	C	N	ND
78-87-5	1,2-Dichloropropane	ND	ND	µg/kg	--	0/22	0.33 - 970	N/A	1600	N	N	ND
541-73-1	1,3-Dichlorobenzene	1.9 J	1.9 J	µg/kg	SS-26: 0-2 ft BGS (10/26/2018)	1/18	0.31 - 970	1.9 J	180000 (5)	N	N	BSV
106-46-7	1,4-Dichlorobenzene	ND	ND	µg/kg	--	0/17	0.38 - 970	N/A	2600	C	N	ND
78-93-3	2-Butanone (Methyl ethyl ketone) (MEK)	1 J	37 J	µg/kg	SS-34: 0-2 ft BGS (10/26/2018)	5/32	1.4 - 3900	37 J	2700000	N	N	BSV
591-78-6	2-Hexanone	ND	ND	µg/kg	--	0/20	0.63 - 3900	N/A	20000	N	N	ND
108-10-1	4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	36 J	36 J	µg/kg	S6(EPA): 0-1 ft BGS (10/23/1990)	1/30	0.96 - 3900	36 J	3300000	N	N	BSV
67-64-1	Acetone	3 J	25 J	µg/kg	S6(EPA): 0-1 ft BGS (10/23/1990)	2/32	3.3 - 6300	25 J	6100000	N	N	BSV
71-43-2	Benzene	0.86 J	200 J	µg/kg	BH75-13: 0-2 ft BGS (6/25/2013)	2/22	0.35 - 16	200 J	1200	C	N	BSV
75-27-4	Bromodichloromethane	ND	ND	µg/kg	--	0/22	0.36 - 970	N/A	290	C	N	ND
75-25-2	Bromoform	ND	ND	µg/kg	--	0/20	0.43 - 970	N/A	19000	C	N	ND
74-83-9	Bromomethane (Methyl bromide)	ND	ND	µg/kg	--	0/22	0.64 - 970	N/A	680	N	N	ND
75-15-0	Carbon disulfide	4.1 J	4.1 J	µg/kg	SS-20: 0-2 ft BGS (10/31/2017)	1/23	0.23 - 970	4.1 J	77000	N	N	BSV
56-23-5	Carbon tetrachloride	ND	ND	µg/kg	--	0/22	0.27 - 970	N/A	650	C	N	ND
108-90-7	Chlorobenzene	630 J	630 J	µg/kg	BH75-13: 0-2 ft BGS (6/25/2013)	1/20	0.36 - 16	630 J	28000	N	N	BSV
75-00-3	Chloroethane	ND	ND	µg/kg	--	0/22	0.41 - 970	N/A	1400000	N	N	ND
67-66-3	Chloroform (Trichloromethane)	ND	ND	µg/kg	--	0/22	0.25 - 970	N/A	320	C	N	ND
74-87-3	Chloromethane (Methyl chloride)	ND	ND	µg/kg	--	0/22	0.41 - 970	N/A	11000	N	N	ND
156-59-2	cis-1,2-Dichloroethene	ND	ND	µg/kg	--	0/15	0.3 - 970	N/A	16000	N	N	ND
10061-01-5	cis-1,3-Dichloropropene	ND	ND	µg/kg	--	0/22	0.28 - 970	N/A	1800	C	N	ND
110-82-7	Cyclohexane	ND	ND	µg/kg	--	0/15	0.23 - 1900	N/A	650000	N	N	ND
124-48-1	Dibromochloromethane	ND	ND	µg/kg	--	0/20	0.32 - 970	N/A	8300	C	N	ND
75-71-8	Dichlorodifluoromethane (CFC-12)	ND	ND	µg/kg	--	0/14	0.38 - 4.8	N/A	8700	N	N	ND
100-41-4	Ethylbenzene	1400	1400	µg/kg	BH75-13: 0-2 ft BGS (6/25/2013)	1/20	0.29 - 16	1400	5800	C	N	BSV
98-82-8	Isopropyl benzene	790 J	790 J	µg/kg	BH75-13: 0-2 ft BGS (6/25/2013)	1/13	0.22 - 4.8	790 J	190000	N	N	BSV
79-20-9	Methyl acetate	110 J	110 J	µg/kg	BH75-13: 0-2 ft BGS (6/25/2013)	1/15	1.3 - 9.6	110 J	7800000	N	N	BSV
108-87-2	Methyl cyclohexane	530 J	530 J	µg/kg	BH75-13: 0-2 ft BGS (6/25/2013)	1/15	0.25 - 9.6	530 J	650000 (5)	N	N	BSV
1634-04-4	Methyl tert butyl ether (MTBE)	ND	ND	µg/kg	--	0/15	0.29 - 970	N/A	47000	C	N	ND
75-09-2	Methylene chloride	4.1 J	55 J	µg/kg	SS-26: 0-2 ft BGS (10/26/2018)	2/24	0.26 - 3100	55 J	35000	N	N	BSV
100-42-5	Styrene	0.90 J	0.90 J	µg/kg	SS-24: 0-2 ft BGS (11/7/2017)	1/20	0.29 - 970	0.90 J	600000	N	N	BSV
127-18-4	Tetrachloroethene	1.1 J	260 J	µg/kg	SS-20: 0-2 ft BGS (10/31/2017)	5/32	0.4 - 970	260 J	8100	N	N	BSV
108-88-3	Toluene	1.3 J	1500	µg/kg	BH75-13: 0-2 ft BGS (6/25/2013)	11/31	0.37 - 16	1500	490000	N	N	BSV
156-60-5	trans-1,2-Dichloroethene	ND	ND	µg/kg	--	0/15	0.41 - 970	N/A	160000	N	N	ND

Table 28

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU18-EU19 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU18-EU19 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Volatile Organic Compounds (cont.'d)											
10061-02-6	trans-1,3-Dichloropropene	ND	ND	µg/kg	--	0/20	0.23 - 970	N/A	1800	C	N	ND
79-01-6	Trichloroethene	3.5 J	130 J	µg/kg	BH75-13: 0-2 ft BGS (6/25/2013)	4/34	0.44 - 16	130 J	410	N	N	BSV
75-69-4	Trichlorofluoromethane (CFC-11)	ND	ND	µg/kg	--	0/15	0.26 - 970	N/A	2300000	N	N	ND
76-13-1	Trifluorotrichloroethane (CFC-113)	ND	ND	µg/kg	--	0/15	0.53 - 970	N/A	670000	N	N	ND
75-01-4	Vinyl chloride	ND	ND	µg/kg	--	0/22	0.3 - 970	N/A	59	C	N	ND
1330-20-7	Xylenes (total)	3 J	8100	µg/kg	BH75-13: 0-2 ft BGS (6/25/2013)	2/30	0.43 - 16	8100	58000	N	N	BSV
	Semi-Volatiles Organic Compounds											
108-60-1	2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ND	ND	µg/kg	--	0/16	10 - 150	N/A	310000	N	N	ND
95-95-4	2,4,5-Trichlorophenol	ND	ND	µg/kg	--	0/23	27 - 1300	N/A	630000	N	N	ND
88-06-2	2,4,6-Trichlorophenol	ND	ND	µg/kg	--	0/23	9.7 - 950	N/A	6300	N	N	ND
120-83-2	2,4-Dichlorophenol	ND	ND	µg/kg	--	0/23	22 - 650	N/A	19000	N	N	ND
105-67-9	2,4-Dimethylphenol	ND	ND	µg/kg	--	0/23	22 - 590	N/A	130000	N	N	ND
51-28-5	2,4-Dinitrophenol	ND	ND	µg/kg	--	0/22	23 - 2100	N/A	13000	N	N	ND
121-14-2	2,4-Dinitrotoluene	ND	ND	µg/kg	--	0/23	19 - 920	N/A	1700	C	N	ND
606-20-2	2,6-Dinitrotoluene	ND	ND	µg/kg	--	0/23	23 - 830	N/A	360	C	N	ND
91-58-7	2-Chloronaphthalene	ND	ND	µg/kg	--	0/23	0.49 - 530	N/A	480000	N	N	ND
95-57-8	2-Chlorophenol	ND	ND	µg/kg	--	0/23	8.9 - 530	N/A	39000	N	N	ND
91-57-6	2-Methylnaphthalene	4.1 J	1900	µg/kg	SS-26: 0-2 ft BGS (10/26/2018)	27/33	7.3 - 530	1900	240000	N	N	BSV
95-48-7	2-Methylphenol	ND	ND	µg/kg	--	0/23	12 - 530	N/A	320000	N	N	ND
88-74-4	2-Nitroaniline	ND	ND	µg/kg	--	0/23	9.9 - 1300	N/A	63000	n	N	ND
88-75-5	2-Nitrophenol	ND	ND	µg/kg	--	0/23	9 - 530	N/A	--		N	ND
3/4-Cresol	3&4-Methylphenol	71 J	130 J	µg/kg	SS-22: 0-2 ft BGS (11/7/2017)	2/15	22 - 430	130 J	320000 (5)	N	N	BSV
91-94-1	3,3'-Dichlorobenzidine	ND	ND	µg/kg	--	0/15	20 - 640	N/A	1200	c	N	ND
99-09-2	3-Nitroaniline	ND	ND	µg/kg	--	0/22	17 - 1300	N/A	--		N	ND
106-44-5	4-Methylphenol	ND	ND	µg/kg	--	0/8	220 - 530	N/A	630000	N	N	ND
534-52-1	4,6-Dinitro-2-methylphenol	ND	ND	µg/kg	--	0/22	10 - 1300	N/A	510	N	N	ND
101-55-3	4-Bromophenyl phenyl ether	ND	ND	µg/kg	--	0/23	14 - 530	N/A	--		N	ND
59-50-7	4-Chloro-3-methylphenol	ND	ND	µg/kg	--	0/23	23 - 670	N/A	630000	N	N	ND
106-47-8	4-Chloroaniline	ND	ND	µg/kg	--	0/22	19 - 530	N/A	2700	C	N	ND
7005-72-3	4-Chlorophenyl phenyl ether	ND	ND	µg/kg	--	0/23	14 - 530	N/A	--		N	ND
100-01-6	4-Nitroaniline	ND	ND	µg/kg	--	0/22	28 - 1300	N/A	25000	N	N	ND
100-02-7	4-Nitrophenol	ND	ND	µg/kg	--	0/23	19 - 1400	N/A	--		N	ND
83-32-9	Acenaphthene	11	1200	µg/kg	S6(EPA): 0-1 ft BGS (10/23/1990)	13/33	0.83 - 530	1200	360000	N	N	BSV
208-96-8	Acenaphthylene	7.7 J	1100	µg/kg	SS-33: 0.17-2.17 ft BGS (10/26/2018)	10/23	0.39 - 530	1100	360000 (5)	N	N	BSV
98-86-2	Acetophenone	38 J	550 J	µg/kg	SS-22: 0-2 ft BGS (11/7/2017)	9/16	10 - 160	550 J	780000	N	N	BSV
120-12-7	Anthracene	4.6 J	3000	µg/kg	S6(EPA): 0-1 ft BGS (10/23/1990)	22/33	7.3 - 530	3000	1800000	N	N	BSV
1912-24-9	Atrazine	ND	ND	µg/kg	--	0/16	9.9 - 530	N/A	2400	C	N	ND
100-52-7	Benzaldehyde	16 J	420 J	µg/kg	SS-22: 0-2 ft BGS (11/7/2017)	8/16	13 - 340	420 J	170000	N	N	BSV
56-55-3	**Benzo(a)anthracene**	**11 J**	**8500**	**µg/kg**	**S3(EPA): 0-1 ft BGS (10/23/1990)**	**27/33**	**330 - 530**	**8500**	**1100**	**C**	**Y**	**ASV**
50-32-8	**Benzo(a)pyrene**	**14 J**	**6000**	**µg/kg**	**SS-33: 0.17-2.17 ft BGS (10/26/2018)**	**25/33**	**10 - 530**	**6000**	**110**	**C**	**Y**	**ASV**
205-99-2	**Benzo(b)fluoranthene**	**12 J**	**9500**	**µg/kg**	**S3(EPA): 0-1 ft BGS (10/23/1990)**	**28/33**	**330 - 530**	**9500**	**1100**	**C**	**Y**	**ASV**

Table 28

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU18-EU19 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU18-EU19 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Semi-Volatiles Organic Compounds (cont.'d)											
191-24-2	Benzo(g,h,i)perylene	10 J	4700	µg/kg	S3(EPA): 0-1 ft BGS (10/23/1990)	23/33	7.9 - 530	4700	180000 (5)	N	N	BSV
207-08-9	Benzo(k)fluoranthene	12	6400	µg/kg	S3(EPA): 0-1 ft BGS (10/23/1990)	21/33	7.7 - 530	6400	11000	C	N	BSV
92-52-4	Biphenyl (1,1-Biphenyl)	49 J	180 J	µg/kg	SS-22: 0-2 ft BGS (11/7/2017)	8/16	3.8 - 250	180 J	4700	N	N	BSV
111-91-1	bis(2-Chloroethoxy)methane	ND	ND	µg/kg	--	0/23	13 - 530	N/A	19000	N	N	ND
111-44-4	bis(2-Chloroethyl)ether	ND	ND	µg/kg	--	0/23	2.2 - 530	N/A	230	C	N	ND
117-81-7	bis(2-Ethylhexyl)phthalate (DEHP)	33 J	2100	µg/kg	S09(OEPA): 0.3-0.5 ft BGS (7/9/1996)	15/33	38 - 760	2100	39000	C	N	BSV
85-68-7	Butyl benzylphthalate (BBP)	25 J	18000 E	µg/kg	S09(OEPA): 0.3-0.5 ft BGS (7/9/1996)	9/33	11 - 530	18000 E	290000	C	N	BSV
105-60-2	Caprolactam	ND	ND	µg/kg	--	0/16	40 - 1100	N/A	3100000	N	N	ND
86-74-8	**Carbazole**	**30 J**	**870**	**µg/kg**	**SS-33: 0.17-2.17 ft BGS (10/26/2018)**	**7/23**	**21 - 530**	**870**	**--**		**Y**	**AD**
218-01-9	Chrysene	14 J	6700	µg/kg	SS-33: 0.17-2.17 ft BGS (10/26/2018)	29/33	330 - 530	6700	110000	C	N	BSV
53-70-3	**Dibenz(a,h)anthracene**	**50**	**1600**	**µg/kg**	**S6(EPA): 0-1 ft BGS (10/23/1990)**	**11/33**	**0.72 - 530**	**1600**	**110**	**C**	**Y**	**ASV**
132-64-9	Dibenzofuran	10 J	830 J	µg/kg	S3(EPA): 0-1 ft BGS (10/23/1990)	18/33	0.72 - 530	830 J	7300	N	N	BSV
84-66-2	Diethyl phthalate	140 J	140 J	µg/kg	SS-22: 0-2 ft BGS (11/7/2017)	1/23	17 - 530	140 J	5100000	N	N	BSV
131-11-3	Dimethyl phthalate	ND	ND	µg/kg	--	0/23	16 - 530	N/A	5100000 (5)	N	N	ND
84-74-2	Di-n-butylphthalate (DBP)	18 J	1500	µg/kg	S09(OEPA): 0.3-0.5 ft BGS (7/9/1996)	13/33	17 - 410	1500	630000	N	N	BSV
117-84-0	Di-n-octyl phthalate (DnOP)	23 J	23 J	µg/kg	S02(OEPA): 0-0.1 ft BGS (7/9/1996)	1/23	8.6 - 530	23 J	63000	N	N	BSV
206-44-0	Fluoranthene	14 J	21000 D	µg/kg	S6(EPA): 0-1 ft BGS (10/23/1990)	30/33	330 - 530	21000 D	240000	N	N	BSV
86-73-7	Fluorene	4.4 J	1500	µg/kg	S3(EPA): 0-1 ft BGS (10/23/1990)	13/33	0.58 - 530	1500	240000	N	N	BSV
118-74-1	Hexachlorobenzene	ND	ND	µg/kg	--	0/23	2.3 - 530	N/A	210	C	N	ND
87-68-3	Hexachlorobutadiene	ND	ND	µg/kg	--	0/23	6.1 - 530	N/A	1200	C	N	ND
77-47-4	Hexachlorocyclopentadiene	ND	ND	µg/kg	--	0/22	8.8 - 920	N/A	180	N	N	ND
67-72-1	Hexachloroethane	ND	ND	µg/kg	--	0/23	9.8 - 530	N/A	1800	C	N	ND
193-39-5	**Indeno(1,2,3-cd)pyrene**	**18**	**5000**	**µg/kg**	**S3(EPA): 0-1 ft BGS (10/23/1990)**	**23/33**	**8.2 - 530**	**5000**	**1100**	**C**	**Y**	**ASV**
78-59-1	Isophorone	ND	ND	µg/kg	--	0/23	13 - 530	N/A	570000	C	N	ND
91-20-3	Naphthalene	11	1400	µg/kg	SS-26: 0-2 ft BGS (10/26/2018)	26/33	0.92 - 530	1400	3800	C	N	BSV
98-95-3	Nitrobenzene	ND	ND	µg/kg	--	0/23	2.4 - 530	N/A	5100	C	N	ND
621-64-7	N-Nitrosodi-n-propylamine	ND	ND	µg/kg	--	0/23	6.9 - 530	N/A	78	C	N	ND
86-30-6	N-Nitrosodiphenylamine	450 J	450 J	µg/kg	S3(EPA): 0-1 ft BGS (10/23/1990)	1/33	13 - 530	450 J	110000	C	N	BSV
87-86-5	Pentachlorophenol	ND	ND	µg/kg	--	0/23	9.9 - 1300	N/A	1000	C	N	ND
85-01-8	Phenanthrene	18	16000 D	µg/kg	S3(EPA): 0-1 ft BGS (10/23/1990)	30/33	330 - 530	16000 D	180000 (5)	N	N	BSV
108-95-2	Phenol	46 J	220 J	µg/kg	SS-22: 0-2 ft BGS (11/7/2017)	4/23	8 - 530	220 J	1900000	N	N	BSV
129-00-0	Pyrene	14 J	13000	µg/kg	S6(EPA): 0-1 ft BGS (10/23/1990)	30/33	330 - 1300	13000	180000	N	N	BSV
	Metals											
7429-90-5	**Aluminum**	**1140**	**12000**	**mg/kg**	**SS-22: 0-2 ft BGS (11/7/2017)**	**33/33**	**--**	**12000**	**7700**	**N**	**Y**	**ASV**
7440-36-0	**Antimony**	**0.21 J**	**52**	**mg/kg**	**SS-22: 0-2 ft BGS (11/7/2017)**	**22/33**	**0.17 - 6.6**	**52**	**3.1**	**N**	**Y**	**ASV**
7440-38-2	**Arsenic**	**1.6 B**	**77.2**	**mg/kg**	**S02(OEPA): 0-0.1 ft BGS (7/9/1996)**	**33/33**	**1.2**	**77.2**	**0.68**	**C**	**Y**	**ASV**
7440-39-3	Barium	6.3	991	mg/kg	S1(EPA): 1-2 ft BGS (10/23/1990)	33/33	--	991	1500	N	N	BSV
7440-41-7	Beryllium	0.061 J	5.8	mg/kg	SS-26: 0-2 ft BGS (10/26/2018)	31/33	0.25 - 1	5.8	16	N	N	BSV
7440-43-9	**Cadmium**	**0.13 J**	**34**	**mg/kg**	**SS-22: 0-2 ft BGS (11/7/2017)**	**27/33**	**0.17 - 1**	**34**	**7.1**	**N**	**Y**	**ASV**
7440-70-2	Calcium	590	110000	mg/kg	SS-31: 0-2 ft BGS (11/2/2017)	33/33	--	110000	--		N	NAT
16065-83-1	Chromium III (trivalent)	5.4	94.3	mg/kg	SS-22: 0-2 ft BGS (11/7/2017)	34/34	--	94.3	12000	N	N	BSV

Table 28

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU18-EU19 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU18-EU19 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Metals (cont.'d)											
18540-29-9	**Chromium VI (hexavalent)**	**0.56 J**	**15.7**	**mg/kg**	**SS-22: 0-2 ft BGS (11/7/2017)**	**28/34**	**0.28 - 2.5**	**15.7**	**0.3**	**C**	**Y**	**ASV**
7440-48-4	**Cobalt**	**1.4 B**	**22.1**	**mg/kg**	**S9(EPA): 0-1 ft BGS (10/23/1990)**	**32/33**	**10**	**22.1**	**2.3**	**N**	**Y**	**ASV**
7440-50-8	**Copper**	**15.8**	**191000**	**mg/kg**	**S10(OEPA): 0-0.3 ft BGS (7/9/1996)**	**33/33**	**--**	**191000**	**310**	**N**	**Y**	**ASV**
57-12-5	**Cyanide (total)**	**0.26 B**	**3.7**	**mg/kg**	**S09(OEPA): 0.3-0.5 ft BGS (7/9/1996)**	**10/23**	**0.19 - 0.68**	**3.7**	**2.3**	**N**	**Y**	**ASV**
7439-89-6	**Iron**	**2840**	**94000**	**mg/kg**	**SS-22: 0-2 ft BGS (11/7/2017)**	**33/33**	**--**	**94000**	**5500**	**N**	**Y**	**ASV**
7439-92-1	**Lead**	**6.4**	**13000**	**mg/kg**	**SS-22: 0-2 ft BGS (11/7/2017)**	**33/33**	**--**	**13000**	**400**	**C**	**Y**	**ASV**
7439-92-1	**Lead - coarse fraction**	**48**	**6400**	**mg/kg**	**SS-22: 0-2 ft BGS (11/7/2017)**	**5/5**	**--**	**6400**	**400**	**C**	**Y**	**ASV**
7439-92-1	**Lead - fine fraction**	**120**	**4200**	**mg/kg**	**SS-22: 0-2 ft BGS (11/7/2017)**	**5/5**	**--**	**4200**	**400**	**C**	**Y**	**ASV**
7439-92-1	**Lead - total (calculated by fine/coarse fraction)**	**70**	**5900**	**mg/kg**	**SS-22: 0-2 ft BGS (11/7/2017)**	**5/5**	**--**	**5900**	**400**	**C**	**Y**	**ASV**
7439-95-4	Magnesium	294 B	42000	mg/kg	SS-36: 0-2 ft BGS (10/31/2017)	33/33	--	42000	--		N	NAT
7439-96-5	**Manganese**	**7.2**	**1400**	**mg/kg**	**SS-28: 0-2 ft BGS (10/26/2018)**	**33/33**	**--**	**1400**	**180**	**N**	**Y**	**ASV**
7439-97-6	Mercury	0.045 J	0.48	mg/kg	S02(OEPA): 0-0.1 ft BGS (7/9/1996)	18/33	0.008 - 0.17	0.48	1.1	N	N	BSV
7440-02-0	**Nickel**	**7.3**	**402**	**mg/kg**	**S8(EPA): 0-1 ft BGS (10/23/1990)**	**33/33**	**--**	**402**	**150**	**N**	**Y**	**ASV**
7440-09-7	Potassium	81 J	1630 B	mg/kg	S9(EPA): 0-1 ft BGS (10/23/1990)	33/33	--	1630 B	--		N	NAT
7782-49-2	Selenium	0.23 J	8.8	mg/kg	S02(OEPA): 0-0.1 ft BGS (7/9/1996)	28/33	0.82 - 27.5	8.8	39	N	N	BSV
7440-22-4	Silver	0.041 J	7.6	mg/kg	S10(OEPA): 0-0.3 ft BGS (7/9/1996)	17/33	0.21 - 2	7.6	39	N	N	BSV
7440-23-5	Sodium	43.7 B	980	mg/kg	SS-22: 0-2 ft BGS (11/7/2017)	25/33	59 - 550	980	--		N	NAT
7440-28-0	**Thallium**	**0.10 J**	**4.5**	**mg/kg**	**S10(OEPA): 0-0.3 ft BGS (7/9/1996)**	**22/33**	**0.039 - 2**	**4.5**	**0.078**	**N**	**Y**	**ASV**
7440-62-2	**Vanadium**	**0.62 B**	**92.6**	**mg/kg**	**S02(OEPA): 0-0.1 ft BGS (7/9/1996)**	**33/33**	**--**	**92.6**	**39**	**N**	**Y**	**ASV**
7440-66-6	**Zinc**	**9.2**	**11500**	**mg/kg**	**S10(OEPA): 0-0.3 ft BGS (7/9/1996)**	**33/33**	**--**	**11500**	**2300**	**N**	**Y**	**ASV**
	Polychlorinated Biphenyls											
12674-11-2	Aroclor-1016 (PCB-1016)	ND	ND	µg/kg	--	0/23	24 - 580	N/A	410	N	N	ND
11104-28-2	Aroclor-1221 (PCB-1221)	ND	ND	µg/kg	--	0/23	26 - 550	N/A	200	C	N	ND
11141-16-5	Aroclor-1232 (PCB-1232)	ND	ND	µg/kg	--	0/23	18 - 390	N/A	170	C	N	ND
53469-21-9	**Aroclor-1242 (PCB-1242)**	**340**	**770**	**µg/kg**	**SS-21: 0-2 ft BGS (11/19/2018)**	**2/23**	**21 - 480**	**770**	**230**	**C**	**Y**	**ASV**
12672-29-6	**Aroclor-1248 (PCB-1248)**	**360 X**	**4200 X**	**µg/kg**	**S2(EPA): 0-1 ft BGS (10/23/1990)**	**3/33**	**19 - 410**	**4200 X**	**230**	**C**	**Y**	**ASV**
11097-69-1	**Aroclor-1254 (PCB-1254)**	**28 J**	**29000**	**µg/kg**	**SS-24: 0-2 ft BGS (11/7/2017)**	**13/23**	**16 - 53**	**29000**	**120**	**C**	**Y**	**ASV**
11096-82-5	**Aroclor-1260 (PCB-1260)**	**23 J**	**2800 X**	**µg/kg**	**S2(EPA): 0-1 ft BGS (10/23/1990)**	**9/33**	**20 - 430**	**2800 X**	**240**	**C**	**Y**	**ASV**
	Pesticides											
72-54-8	4,4'-DDD	4.4	28 J	µg/kg	SS-23: 0-2 ft BGS (11/19/2018)	2/23	1.8 - 200	28 J	190	C	N	BSV
72-55-9	4,4'-DDE	2.6 J	2.6 J	µg/kg	S04(OEPA): 1.5-2 ft BGS (7/9/1996)	1/23	1.3 - 110	2.6 J	2000	C	N	BSV
50-29-3	4,4'-DDT	3.4 J	3.8 J	µg/kg	SS-36: 0-2 ft BGS (10/31/2017)	2/23	1.4 - 84	3.8 J	1900	C	N	BSV
309-00-2	Aldrin	ND	ND	µg/kg	--	0/23	0.95 - 140	N/A	39	C	N	ND
319-84-6	alpha-BHC	ND	ND	µg/kg	--	0/23	1.1 - 96	N/A	86	C	N	ND
5103-71-9	alpha-Chlordane	5.4 P	5.4 P	µg/kg	S04(OEPA): 1.5-2 ft BGS (7/9/1996)	1/23	1.8 - 230	5.4 P	1700	C	N	BSV
319-85-7	beta-BHC	ND	ND	µg/kg	--	0/23	1.8 - 230	N/A	300	C	N	ND
319-86-8	delta-BHC	ND	ND	µg/kg	--	0/23	1.4 - 120	N/A	300	C	N	ND
60-57-1	Dieldrin	ND	ND	µg/kg	--	0/23	0.98 - 80	N/A	34	C	N	ND
959-98-8	Endosulfan I	ND	ND	µg/kg	--	0/23	1.4 - 88	N/A	47000	N	N	ND
33213-65-9	Endosulfan II	4.0 J	4.0 J	µg/kg	SS-34: 0-2 ft BGS (10/26/2018)	1/23	1.8 - 110	4.0 J	47000	N	N	BSV

Table 28

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU18-EU19 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU18-EU19 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)		COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Pesticides (cont.'d)											
1031-07-8	Endosulfan sulfate	1.7 J	1.7 J	µg/kg	SS-35: 0-2 ft BGS (10/30/2017)	1/23	1.3 - 94	1.7 J	47000	N	N	BSV
72-20-8	Endrin	2.3 PJ	140 NJ	µg/kg	SS-24: 0-2 ft BGS (11/7/2017)	3/23	1.5 - 140	140 NJ	1900	N	N	BSV
7421-93-4	Endrin aldehyde	6.6 P	110 J	µg/kg	SS-22: 0-2 ft BGS (11/7/2017)	2/23	2 - 110	110 J	1900	N	N	BSV
53494-70-5	Endrin ketone	7.5 P	7.5 P	µg/kg	S11(OEPA): 0.2-0.3 ft BGS (7/9/1996)	1/23	1.1 - 66	7.5 P	1900	N	N	BSV
58-89-9	gamma-BHC (lindane)	0.42 J	0.77 PJ	µg/kg	S10(OEPA): 0-0.3 ft BGS (7/9/1996)	2/23	1.8 - 170	0.77 PJ	570	C	N	BSV
5103-74-2	gamma-Chlordane	0.35 PJ	4.3	µg/kg	S04(OEPA): 1.5-2 ft BGS (7/9/1996)	4/23	1.5 - 90	4.3	1700	C	N	BSV
76-44-8	Heptachlor	ND	ND	µg/kg	--	0/23	0.85 - 120	N/A	130	C	N	ND
1024-57-3	Heptachlor epoxide	0.49 PJ	0.78 PJ	µg/kg	S04(OEPA): 1.5-2 ft BGS (7/9/1996)	2/23	1.8 - 140	0.78 PJ	70	C	N	BSV
72-43-5	Methoxychlor	1.8 PJ	2.8 J	µg/kg	SS-30: 0-2 ft BGS (11/2/2017)	2/23	1.3 - 480	2.8 J	32000	N	N	BSV
8001-35-2	Toxaphene	ND	ND	µg/kg	--	0/23	31 - 2200	N/A	490	C	N	ND
	Herbicides											
93-76-5	2,4,5-T	ND	ND	µg/kg	--	0/7	14 - 21	N/A	63000	N	N	ND
93-72-1	2,4,5-TP (Silvex)	ND	ND	µg/kg	--	0/8	15 - 23	N/A	51000	N	N	ND
94-75-7	2,4-Dichlorophenoxyacetic acid (2,4-D)	ND	ND	µg/kg	--	0/8	51 - 88	N/A	70000	N	N	ND
	Dioxins/Furans											
39001-02-0	1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	14	14	pg/g	SS-35: 0-2 ft BGS (10/30/2017)	1/6	7.7 - 38	14	--			Refer to Total TEQ
3268-87-9	1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	41 J	6200 J	pg/g	SS-33: 0.17-2.17 ft BGS (10/26/2018)	6/6	--	6200 J	--			Refer to Total TEQ
67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	8.4	57	pg/g	SS-26: 0-2 ft BGS (10/26/2018)	2/6	2.3 - 9.6	57	--			Refer to Total TEQ
35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	7.3	62	pg/g	SS-33: 0.17-2.17 ft BGS (10/26/2018)	6/6	--	62	--			Refer to Total TEQ
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	1.8 J	1.8 J	pg/g	SS-28: 0-2 ft BGS (10/26/2018)	1/6	0.13 - 1.6	1.8 J	--			Refer to Total TEQ
70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	1.2 J	7.5 J	pg/g	SS-26: 0-2 ft BGS (10/26/2018)	4/6	0.22 - 0.93	7.5 J	--			Refer to Total TEQ
39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	0.55 J	11	pg/g	SS-26: 0-2 ft BGS (10/26/2018)	3/6	0.055 - 1.8	11	--			Refer to Total TEQ
57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	1.7 J	5.6 J	pg/g	SS-26: 0-2 ft BGS (10/26/2018)	4/6	0.23 - 0.83	5.6 J	--			Refer to Total TEQ
57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	0.99 J	17 J	pg/g	SS-26: 0-2 ft BGS (10/26/2018)	4/6	0.061 - 1.8	17 J	--			Refer to Total TEQ
72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	ND	ND	pg/g	--	0/6	0.2 - 1.2	N/A	--			Refer to Total TEQ
19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	0.98 J	18 J	pg/g	SS-26: 0-2 ft BGS (10/26/2018)	4/6	0.053 - 1.6	18 J	--			Refer to Total TEQ
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	0.28 J	3.1 J	pg/g	SS-26: 0-2 ft BGS (10/26/2018)	2/6	0.12 - 0.36	3.1 J	--			Refer to Total TEQ
40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	0.79 J	10 J	pg/g	SS-26: 0-2 ft BGS (10/26/2018)	2/6	0.12 - 0.92	10 J	--			Refer to Total TEQ
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	1.1 J	4.2 J	pg/g	SS-26: 0-2 ft BGS (10/26/2018)	3/6	0.21 - 1	4.2 J	--			Refer to Total TEQ
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	0.90 J	3.9 J	pg/g	SS-26: 0-2 ft BGS (10/26/2018)	4/6	0.11 - 0.14	3.9 J	--			Refer to Total TEQ
51207-31-9	2,3,7,8-Tetrachlorodibenzofuran (TCDF)	0.89 J	1.8	pg/g	SS-26: 0-2 ft BGS (10/26/2018)	4/6	0.29 - 0.95	1.8	--			Refer to Total TEQ
1746-01-6	2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	0.17 J	0.17 J	pg/g	SS-35: 0-2 ft BGS (10/30/2017)	1/6	0.38 - 1	0.17 J	--			Refer to Total TEQ
38998-75-3	Total heptachlorodibenzofuran (HpCDF)	4.0 J	94 J	pg/g	SS-26: 0-2 ft BGS (10/26/2018)	6/6	--	94 J	--			Refer to Total TEQ
37871-00-4	Total heptachlorodibenzo-p-dioxin (HpCDD)	13 J	130 J	pg/g	SS-33: 0.17-2.17 ft BGS (10/26/2018)	6/6	--	130 J	--			Refer to Total TEQ
55684-94-1	Total hexachlorodibenzofuran (HxCDF)	1.4 J	47 J	pg/g	SS-26: 0-2 ft BGS (10/26/2018)	6/6	--	47 J	--			Refer to Total TEQ
34465-46-8	Total hexachlorodibenzo-p-dioxin (HxCDD)	2.9 J	94 J	pg/g	SS-26: 0-2 ft BGS (10/26/2018)	5/6	1.8	94 J	--			Refer to Total TEQ
30402-15-4	Total pentachlorodibenzofuran (PeCDF)	8.0 J	54 J	pg/g	SS-35: 0-2 ft BGS (10/30/2017)	5/6	0.12	54 J	--			Refer to Total TEQ
36088-22-9	Total pentachlorodibenzo-p-dioxin (PeCDD)	0.53 J	58 J	pg/g	SS-26: 0-2 ft BGS (10/26/2018)	5/6	0.92	58 J	--			Refer to Total TEQ
55722-27-5	Total tetrachlorodibenzofuran (TCDF)	5.4 J	130 J	pg/g	SS-26: 0-2 ft BGS (10/26/2018)	5/6	0.29	130 J	--			Refer to Total TEQ
41903-57-5	Total tetrachlorodibenzo-p-dioxin (TCDD)	2.0 J	10 J	pg/g	SS-26: 0-2 ft BGS (10/26/2018)	3/6	0.39 - 1	10 J	--			Refer to Total TEQ
TOTALTEQND0	**Total TEQ (DL @ 0)**	**0.0889**	**18.859**	**pg/g**	**SS-26: 0-2 ft BGS (10/26/2018)**	**6/6**	**--**	**18.859**	**4.8**	**C**	**Y**	**ASV**
TOTALTEQND0.5	**Total TEQ (DL @ Half)**	**0.463355**	**19.21035**	**pg/g**	**SS-26: 0-2 ft BGS (10/26/2018)**	**6/6**	**--**	**19.21035**	**4.8**	**C**	**Y**	**ASV**

Table 28

Occurrence, Distribution, and Identification of Chemicals of Potential Concern (COPCs) in EU18-EU19 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU18-EU19 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

CAS Number	Chemical	Minimum Concentration (1, 2)	Maximum Concentration (1, 2)	Units	Location of Maximum Concentration	Detection Frequency (2)	Range of Detection Limits (2)	Concentration Used for Screening (2)	Screening Toxicity Value (N/C) (3)	COPC Flag (Y/N)	Rationale for Selection or Deletion (4)
	Asbestos										
1332-21-4	Asbestos	ND	ND	%	--	0/3	0.25	N/A	--	N	ND
12001-29-5	**Chrysotile asbestos**	**0.25**	**0.5**	**%**	**SS-188-AS: 0-0.5 ft BGS (10/16/2018)**	**3/11**	**0.25**	**0.5**	**--**	**Y**	**AD**

Notes:

(1) Minimum/maximum detected concentration.

(2) Based on data collected from sampling locations: S1, S2, S3, S4, S5, S6, S7, S8, S9, S11, S01, S02, S03, S04, S06, S09, S10, S11, SS-20, SS-21, SS-22, SS-23, SS-24, SS-26, SS-27, SS-28, SS-29,SS-30, SS-31, SS-33, SS-34, SS-35, SS-36, SS-105, SS-106, SS-107, SS-108, SS-110, SS-111, SS-113, SS-179-AS, SS-180-AS, SS-181-AS, SS-182-AS, SS-183-AS, SS-184-AS, SS-185-AS, SS-186-AS, SS-187-AS, SS-188-AS, SS-189-AS, SS-190-AS, SS-191-AS, SS-192-AS, BH75-13, BH166-17, TP-2.

(3) Regional Screening Level (RSL) Summary Table (TR = 1E-06, HI = 0.1) , Residential Soil, November 2018.

(4) Rationale Codes

Selection Reason: Maximum detected above Screening Value (ASV)
Analyte Detected and no Screening Value available (AD)
Deletion Reason: Maximum detected below Screening Value (BSV)
Naturally Occurring (NAT)

(5) No screening value available, surrogate screening value implemented as follows:

Chemical		Surrogate
1,3-dichlorobenzene	-	1,2-dichlorobenzene
methyl cyclohexane	-	cyclohexane
3&4-methylphenol	-	3-methylphenol
acenaphthylene	-	acenaphthene
benzo(g,h,i)perylene	-	pyrene
phenanthrene	-	pyrene
dimethylphthalate	-	diethylphthalate

Defintions:

-- = Not Available
N = Noncarcinogen
C = Carcinogen
Y = Yes
N = No
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
E - Exceed calibration range of GC/MS instrument (Organics).
D - Compounds at secondary dilution factor.
B - Estimated concentration (Inorganics).
X - Unknown description
P - The %RPD between the primary and confirmation column/ detector is >40%. The lower value has been reported.

Table 29

Exposure Point Concentration (EPC) Summary for Chemicals of Potential Concern in EU01 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU01 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

Chemicals of Potential Concern	Units	Mean (1)	Data Distribution (2)	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Medium EPC Value	Medium EPC Statistic (3)	Medium EPC Rationale
Semi-Volatiles Organic Compounds									
Benzo(a)anthracene	µg/kg	1.0E+03	(c)	3.4E+03		µg/kg	2.4E+03	95% Adjusted Gamma UCL	(4)
Benzo(a)pyrene	µg/kg	1.0E+03	(c)	3.1E+03		µg/kg	2.3E+03	95% Adjusted Gamma UCL	(4)
Benzo(b)fluoranthene	µg/kg	1.4E+03	(c)	3.9E+03		µg/kg	2.9E+03	95% Adjusted Gamma UCL	(4)
Carbazole	µg/kg	1.0E+02	(c)	3.3E+02		µg/kg	2.3E+02	95% KM Adjusted Gamma UCL	(4)
Dibenz(a,h)anthracene	µg/kg	1.8E+02	(c)	5.7E+02		µg/kg	5.7E+02	95% KM Bootstrap t UCL	(4)
Indeno(1,2,3-cd)pyrene	µg/kg	6.4E+02	(c)	1.9E+03		µg/kg	1.5E+03	95% Adjusted Gamma UCL	(4)
Metals									
Aluminum	mg/kg	5.6E+03	(d)	8.4E+03	J	mg/kg	6.7E+03	95% Student's-t UCL	(4)
Arsenic	mg/kg	8.6E+00	(c)	2.9E+01		mg/kg	1.4E+01	95% Adjusted Gamma UCL	(4)
Chromium VI (hexavalent)	mg/kg	6.3E-01	(d)	2.3E+00		mg/kg	1.1E+00	95% KM (t) UCL	(4)
Cobalt	mg/kg	5.2E+00	(d)	9.6E+00		mg/kg	6.3E+00	95% Student's-t UCL	(4)
Iron	mg/kg	1.2E+04	(d)	1.6E+04		mg/kg	1.4E+04	95% Student's-t UCL	(4)
Manganese	mg/kg	3.9E+02	(d)	6.2E+02	J	mg/kg	4.7E+02	95% Student's-t UCL	(4)
Thallium	mg/kg	2.3E-01	(a)	8.2E-01		mg/kg	5.0E-01	95% KM Chebyshev UCL	(4)
Polychlorinated Biphenyls									
Aroclor-1254 (PCB-1254)	µg/kg	4.3E+01	(a)	1.8E+02		µg/kg	1.4E+02	95% KM Chebyshev UCL	(4)

Notes:

J - Estimated concentration.
(1) The Kaplan-Meier estimation method for non-detects was used, as per USEPA (2013).
(2) Data Distribution (Note: data distribution calculated by ProUCL are based on detected values only:
(a) Data set is neither normally, gamma or lognormally distributed.
(b) Data set is lognormally distributed.
(c) Data set is gamma distributed.
(d) Data set is normally distributed.
(3) Statistics (Note: 95% UCL values are calculated using ProUCL software, Version 5.1.
95% Student's-t UCL = UCL of the mean based upon the student's-t statistic
95% KM (t) UCL = UCL based upon Kaplan-Meier Estimates for non-detects using Student's t-Distribution Critical Value
95% Adjusted Gamma UCL = gamma adjusted UCL when n<50
95% KM Adjusted Gamma UCL = gamma adjusted UCL based upon Kaplan-Meier Estimates when n<50
95% KM Chebyshev UCL = UCL based upon Kaplan-Meier Estimates for non-detects using the Chebyshev Inequality
95% KM Bootstrap t UCL = UCL based upon Kaplan-Meier Estimates for non-detects using Bootstrap method
(4) ProUCL recommended value is used as the EPC value. In the event of more than one recommended EPC value, the higher EPC value is used.

Table 30

Exposure Point Concentration (EPC) Summary for Chemicals of Potential Concern in EU02 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU02 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

Chemicals of Potential Concern	Units	Mean (1)	Data Distribution (2)	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Medium EPC Value	Medium EPC Statistic (3)	Medium EPC Rationale
Metals									
Aluminum	mg/kg	1.4E+04	(d)	1.7E+04		mg/kg	1.6E+04	95% Student's-t UCL	(4)
Arsenic	mg/kg	1.1E+01	(d)	1.4E+01		mg/kg	1.3E+01	95% Student's-t UCL	(4)
Cobalt	mg/kg	8.0E+00	(d)	8.4E+00		mg/kg	8.4E+00	95% Student's-t UCL	(4)
Iron	mg/kg	2.3E+04	(d)	2.6E+04		mg/kg	2.5E+04	95% Student's-t UCL	(4)
Manganese	mg/kg	6.5E+02	(d)	7.3E+02		mg/kg	7.1E+02	95% Student's-t UCL	(4)
Thallium	mg/kg	2.3E-01	(d)	2.6E-01		mg/kg	2.5E-01	95% Student's-t UCL	(4)
Vanadium	mg/kg	3.6E+01	(d)	4.3E+01		mg/kg	4.0E+01	95% Modified-t UCL	(4)

Notes:

(1) The Kaplan-Meier estimation method for non-detects was used, as per USEPA (2013).
(2) Data Distribution (Note: data distribution calculated by ProUCL are based on detected values only:
(a) Data set is neither normally, gamma or lognormally distributed.
(b) Data set is lognormally distributed.
(c) Data set is gamma distributed.
(d) Data set is normally distributed.
(3) Statistics (Note: 95% UCL values are calculated using ProUCL software, Version 5.1.
95% Student's-t UCL = UCL of the mean based upon the student's-t statistic
95% Modified-t UCL = UCL of the mean based upon the modified student's-t statistic
(4) ProUCL recommended value is used as the EPC value. In the event of more than one recommended EPC value, the higher EPC value is used.

Table 31

Exposure Point Concentration (EPC) Summary for Chemicals of Potential Concern in EU03 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU03 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

Chemicals of Potential Concern	Units	Mean (1)	Data Distribution (2)	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Medium EPC Value	Medium EPC Statistic (3)	Medium EPC Rationale
Semi-Volatiles Organic Compounds									
Benzo(a)anthracene	µg/kg	4.4E+04	(b)	2.6E+05		µg/kg	4.7E+05	99% Chebyshev (Mean, Sd) UCL	(4)
Benzo(a)pyrene	µg/kg	4.6E+04	(b)	2.7E+05		µg/kg	4.9E+05	99% Chebyshev (Mean, Sd) UCL	(4)
Benzo(b)fluoranthene	µg/kg	5.6E+04	(b)	3.3E+05		µg/kg	6.0E+05	99% Chebyshev (Mean, Sd) UCL	(4)
Benzo(k)fluoranthene	µg/kg	2.2E+04	(b)	1.3E+05		µg/kg	2.4E+05	99% Chebyshev (Mean, Sd) UCL	(4)
Carbazole	µg/kg	1.5E+04	(a)	9.2E+04		µg/kg	2.1E+05	99% KM Chebyshev UCL	(4)
Chrysene	µg/kg	4.2E+04	(b)	2.5E+05		µg/kg	4.6E+05	99% Chebyshev (Mean, Sd) UCL	(4)
Dibenz(a,h)anthracene	µg/kg	6.6E+03	(c)	3.9E+04		µg/kg	1.4E+05	95% KM Adjusted Gamma UCL	(4)
Dibenzofuran	µg/kg	5.0E+03	(a)	3.0E+04		µg/kg	6.9E+04	99% KM Chebyshev UCL	(4)
Flouroanthene	µg/kg	9.9E+04	(b)	5.9E+05		µg/kg	1.1E+06	99% Chebyshev (Mean, Sd) UCL	(4)
Indeno(1,2,3-cd)pyrene	µg/kg	2.0E+04	(b)	1.2E+05		µg/kg	2.2E+05	99% Chebyshev (Mean, Sd) UCL	(4)
Naphthalene	µg/kg	3.0E+03	(c)	1.8E+04		µg/kg	6.6E+04	95% KM Adjusted Gamma UCL	(4)
Phenanthrene	µg/kg	8.0E+04	(b)	4.8E+05		µg/kg	8.8E+05	99% Chebyshev (Mean, Sd) UCL	(4)
Pyrene	µg/kg	7.6E+04	(b)	4.5E+05		µg/kg	8.2E+05	99% Chebyshev (Mean, Sd) UCL	(4)
Metals									
Aluminum	mg/kg	6.3E+03	(d)	9.8E+03		mg/kg	8.0E+03	95% Student's-t UCL	(4)
Arsenic	mg/kg	6.0E+00	(d)	9.4E+00		mg/kg	8.0E+00	95% Student's-t UCL	(4)
Chromium VI (hexavalent)	mg/kg	4.6E-01	(a)	8.5E-01	J	mg/kg	8.6E-01	95% KM H-UCL	(4)
Cobalt	mg/kg	4.6E+00	(d)	7.9E+00		mg/kg	6.4E+00	95% Student's-t UCL	(4)
Iron	mg/kg	2.1E+04	(a)	5.4E+04		mg/kg	5.1E+04	95% Chebyshev (Mean, Sd) UCL	(4)
Lead	mg/kg	1.9E+02	(b)	1.0E+03		mg/kg	1.8E+03	99% Chebyshev (Mean, Sd) UCL	(4)
Manganese	mg/kg	1.4E+03	(a)	6.0E+03		mg/kg	1.1E+04	99% Chebyshev (Mean, Sd) UCL	(4)

Table 31

Exposure Point Concentration (EPC) Summary for Chemicals of Potential Concern in EU03 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU03 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

Chemicals of Potential Concern	Units	Mean (1)	Data Distribution (2)	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Medium EPC Value	Medium EPC Statistic (3)	Medium EPC Rationale
Metals (cont.'d)									
Thallium	mg/kg	1.5E-01	(d)	2.5E-01		mg/kg	2.2E-01	95% KM (t) UCL	(4)
Vanadium	mg/kg	4.3E+01	(d)	1.7E+02		mg/kg	1.5E+02	95% Chebyshev (Mean, Sd) UCL	(4)

Notes:

J - Estimated concentration.
(1) The Kaplan-Meier estimation method for non-detects was used, as per USEPA (2013).
(2) Data Distribution (Note: data distribution calculated by ProUCL are based on detected values only:
(a) Data set is neither normally, gamma or lognormally distributed.
(b) Data set is lognormally distributed.
(c) Data set is gamma distributed.
(d) Data set is normally distributed.
(3) Statistics (Note: 95% UCL values are calculated using ProUCL software, Version 5.1.
95% Student's-t UCL = UCL of the mean based upon the student's-t statistic
95% KM (t) UCL = UCL based upon Kaplan-Meier Estimates for non-detects using Student's t-Distribution Critical Value
95% KM Adjusted Gamma UCL = gamma adjusted UCL based upon Kaplan-Meier Estimates when n<50
95% Chebyshev (Mean, Sd) UCL = UCL of mean and standard deviation using the Chebyshev Inequality
99% Chebyshev (Mean, Sd) UCL = UCL of mean and standard deviation using the Chebyshev Inequality
99% KM Chebyshev UCL = UCL based upon Kaplan-Meier Estimates for non-detects using the Chebyshev Inequality
95% KM H-UCL = UCL based upon Kaplan-Meier Estimates for non-detects using Land's H-statistic
(4) ProUCL recommended value is used as the EPC value. In the event of more than one recommended EPC value, the higher EPC value is used.

Table 32

Exposure Point Concentration (EPC) Summary for Chemicals of Potential Concern in EU03 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU03 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Surface and Subsurface Soil

Chemicals of Potential Concern	Units	Mean (1)	Data Distribution (2)	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Medium EPC Value	Medium EPC Statistic (3)	Medium EPC Rationale
Semi-Volatiles Organic Compounds									
Benzo(a)anthracene	µg/kg	1.9E+04	(b)	2.6E+05		µg/kg	2.0E+05	99% KM Chebyshev UCL	(4)
Benzo(a)pyrene	µg/kg	2.0E+04	(b)	2.7E+05		µg/kg	2.1E+05	99% KM Chebyshev UCL	(4)
Benzo(b)fluoranthene	µg/kg	2.4E+04	(b)	3.3E+05		µg/kg	2.6E+05	99% KM Chebyshev UCL	(4)
Benzo(k)fluoranthene	µg/kg	9.6E+03	(b)	1.3E+05		µg/kg	1.0E+05	99% KM Chebyshev UCL	(4)
Carbazole	µg/kg	6.7E+03	(c)	9.2E+04		µg/kg	6.8E+04	95% KM Adjusted Gamma UCL	(4)
Chrysene	µg/kg	1.9E+04	(b)	2.5E+05		µg/kg	2.0E+05	99% KM Chebyshev UCL	(4)
Dibenz(a,h)anthracene	µg/kg	2.9E+03	(b)	3.9E+04		µg/kg	3.1E+04	99% KM Chebyshev UCL	(4)
Dibenzofuran	µg/kg	2.3E+03	(c)	3.0E+04		µg/kg	2.2E+04	95% KM Adjusted Gamma UCL	(4)
Flouroanthene	µg/kg	4.4E+04	(b)	5.9E+05		µg/kg	4.6E+05	99% KM Chebyshev UCL	(4)
Indeno(1,2,3-cd)pyrene	µg/kg	8.9E+03	(b)	1.2E+05		µg/kg	9.4E+04	99% KM Chebyshev UCL	(4)
Naphthalene	µg/kg	1.4E+03	(b)	1.8E+04		µg/kg	1.4E+04	99% KM Chebyshev UCL	(4)
Phenanthrene	µg/kg	3.6E+04	(b)	4.8E+05		µg/kg	3.8E+05	99% KM Chebyshev UCL	(4)
Pyrene	µg/kg	3.3E+04	(b)	4.5E+05		µg/kg	3.5E+05	99% Chebyshev (Mean, Sd) UCL	(4)
Metals									
Aluminum	mg/kg	6.0E+03	(d)	9.8E+03		mg/kg	7.2E+03	95% Student's-t UCL	(4)
Antimony	mg/kg	6.8E-01	(a)	5.0E+00	J	mg/kg	2.3E+00	95% KM Chebyshev UCL	(4)
Arsenic	mg/kg	7.3E+00	(d)	1.8E+01		mg/kg	9.0E+00	95% Student's-t UCL	(4)
Cadmium	mg/kg	1.3E+00	(a)	1.5E+01		mg/kg	5.9E+00	95% KM Chebyshev UCL	(4)
Chromium VI (hexavalent)	mg/kg	5.3E-01	(d)	1.7E+00		mg/kg	7.4E-01	95% KM (t) UCL	(4)
Cobalt	mg/kg	4.5E+00	(d)	7.9E+00		mg/kg	5.3E+00	95% Student's-t UCL	(4)
Iron	mg/kg	1.6E+04	(b)	5.4E+04		mg/kg	2.9E+04	95% Chebyshev (Mean, Sd) UCL	(4)
Lead	mg/kg	1.3E+02	(b)	1.0E+03		mg/kg	8.9E+02	99% Chebyshev (Mean, Sd) UCL	(4)
Manganese	mg/kg	8.0E+02	(a)	6.0E+03		mg/kg	2.6E+03	95% Chebyshev (Mean, Sd) UCL	(4)
Thallium	mg/kg	1.7E-01	(c)	5.4E-01		mg/kg	2.6E-01	95% KM Adjusted Gamma UCL	(4)
Vanadium	mg/kg	2.8E+01	(a)	1.7E+02		mg/kg	7.6E+01	95% Chebyshev (Mean, Sd) UCL	(4)

Table 32

Exposure Point Concentration (EPC) Summary for Chemicals of Potential Concern in EU03 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU03 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Surface and Subsurface Soil

Chemicals of Potential Concern	Units	Mean (1)	Data Distribution (2)	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Medium EPC Value	Medium EPC Statistic (3)	Medium EPC Rationale
Polychlorinated Biphenyls (cont.'d)									
Aroclor-1242 (PCB-1242)	µg/kg	--	--	9.8E+02		µg/kg	9.8E+02	Maximum Detected	(5)
Aroclor-1254 (PCB-1254)	µg/kg	--	--	1.3E+03		µg/kg	1.3E+03	Maximum Detected	(5)

Notes:

J - Estimated concentration.
(1) The Kaplan-Meier estimation method for non-detects was used, as per USEPA (2013).
(2) Data Distribution (Note: data distribution calculated by ProUCL are based on detected values only:
(a) Data set is neither normally, gamma or lognormally distributed.
(b) Data set is lognormally distributed.
(c) Data set is gamma distributed.
(d) Data set is normally distributed.
(3) Statistics (Note: 95% UCL values are calculated using ProUCL software, Version 5.1.
95% Student's-t UCL = UCL of the mean based upon the student's-t statistic
95% KM (t) UCL = UCL based upon Kaplan-Meier Estimates for non-detects using Student's t-Distribution Critical Value
95% KM Adjusted Gamma UCL = gamma adjusted UCL based upon Kaplan-Meier Estimates when n<50
95% Chebyshev (Mean, Sd) UCL = UCL of mean and standard deviation using the Chebyshev Inequality
99% Chebyshev (Mean, Sd) UCL = UCL of mean and standard deviation using the Chebyshev Inequality
95% KM Chebyshev UCL = UCL based upon Kaplan-Meier Estimates for non-detects using the Chebyshev Inequality
99% KM Chebyshev UCL = UCL based upon Kaplan-Meier Estimates for non-detects using the Chebyshev Inequality
(4) ProUCL recommended value is used as the EPC value. In the event of more than one recommended EPC value, the higher EPC value is used.
(5) Due to the limited dataset an EPC could not be calculated, therefore the maximum detected is the EPC for the subsurface soil exposure.

Table 33

Exposure Point Concentration (EPC) Summary for Chemicals of Potential Concern in EU04 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU04 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

Chemicals of Potential Concern	Units	Mean (1)	Data Distribution (2)	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Medium EPC Value	Medium EPC Statistic (3)	Medium EPC Rationale
Semi-Volatiles Organic Compounds									
Benzo(a)pyrene	µg/kg	3.1E+02	(c)	1.1E+03		µg/kg	3.7E+03	95% Adjusted Gamma UCL	(4)
Benzo(b)fluoranthene	µg/kg	4.1E+02	(c)	1.3E+03		µg/kg	4.6E+03	95% Adjusted Gamma UCL	(4)
Carbazole	µg/kg	--	--	1.3E+02	J	µg/kg	1.3E+02	Maximum Detected	(5)
Dibenz(a,h)anthracene	µg/kg	5.4E+01	(d)	1.8E+02		µg/kg	1.3E+02	95% KM (t) UCL	(4)
Metals									
Aluminum	mg/kg	8.0E+03	(d)	1.5E+04	J	mg/kg	1.1E+04	95% Student's-t UCL	(4)
Antimony	mg/kg	2.3E+00	(b)	1.2E+01	J	mg/kg	2.2E+01	99% Chebyshev (Mean, Sd) UCL	(4)
Arsenic	mg/kg	1.9E+01	(b)	5.0E+01		mg/kg	7.5E+01	95% H-UCL	(4)
Chromium VI (hexavalent)	mg/kg	5.8E-01	(d)	1.3E+00		mg/kg	8.7E-01	95% KM (t) UCL	(4)
Cobalt	mg/kg	1.1E+01	(c)	2.7E+01		mg/kg	2.8E+01	95% Adjusted Gamma UCL	(4)
Iron	mg/kg	1.4E+04	(d)	1.8E+04		mg/kg	1.6E+04	95% Student's-t UCL	(4)
Manganese	mg/kg	3.3E+02	(d)	4.1E+02		mg/kg	4.0E+02	95% Student's-t UCL	(4)
Thallium	mg/kg	4.8E-01	(c)	1.3E+00		mg/kg	1.7E+00	95% Adjusted Gamma UCL	(4)
Vanadium	mg/kg	2.8E+01	(c)	6.1E+01		mg/kg	5.9E+01	95% Adjusted Gamma UCL	(4)

Notes:

J - Estimated concentration.
(1) The Kaplan-Meier estimation method for non-detects was used, as per USEPA (2013).
(2) Data Distribution (Note: data distribution calculated by ProUCL are based on detected values only:
(a) Data set is neither normally, gamma or lognormally distributed.
(b) Data set is lognormally distributed.
(c) Data set is gamma distributed.
(d) Data set is normally distributed.
(3) Statistics (Note: 95% UCL values are calculated using ProUCL software, Version 5.1.
95% Student's-t UCL = UCL of the mean based upon the student's-t statistic
95% KM (t) UCL = UCL based upon Kaplan-Meier Estimates for non-detects using Student's t-Distribution Critical Value
95% Adjusted Gamma UCL = gamma adjusted UCL when n<50
99% Chebyshev (Mean, Sd) UCL = UCL of mean and standard deviation using the Chebyshev Inequality
95% H-UCL = UCL based using Land's H-statistic
(4) ProUCL recommended value is used as the EPC value. In the event of more than one recommended EPC value, the higher EPC value is used.
(5) Due to the limited dataset an EPC could not be calculated, therefore the maximum detected is the EPC for the surface soil exposure.

Table 34

Exposure Point Concentration (EPC) Summary for Chemicals of Potential Concern in EU04 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU04 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

Chemicals of Potential Concern	Units	Mean (1)	Data Distribution (2)	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Medium EPC Value	Medium EPC Statistic (3)	Medium EPC Rationale
Semi-Volatiles Organic Compounds									
Benzo(a)anthracene	µg/kg	2.5E+02	(c)	1.2E+03		µg/kg	7.3E+02	95% KM Adjusted Gamma UCL	(4)
Benzo(a)pyrene	µg/kg	2.4E+02	(c)	1.1E+03		µg/kg	6.8E+02	95% KM Adjusted Gamma UCL	(4)
Benzo(b)fluoranthene	µg/kg	3.1E+02	(c)	1.3E+03		µg/kg	8.5E+02	95% KM Adjusted Gamma UCL	(4)
Carbazole	µg/kg	5.6E+01	(d)	4.0E+02		µg/kg	1.1E+02	95% KM (t) UCL	(5)
Dibenz(a,h)anthracene	µg/kg	3.8E+01	(c)	1.8E+02		µg/kg	1.1E+02	95% KM Adjusted Gamma UCL	(4)
Metals									
Aluminum	mg/kg	6.7E+03	(d)	1.5E+04	J	mg/kg	8.2E+03	95% Student's-t UCL	(4)
Antimony	mg/kg	1.2E+00	(b)	1.2E+01	J	mg/kg	4.9E+00	95% KM Chebyshev UCL	(4)
Arsenic	mg/kg	1.6E+01	(b)	5.6E+01		mg/kg	3.6E+01	95% Chebyshev (Mean, Sd) UCL	(4)
Chromium VI (hexavalent)	mg/kg	7.9E-01	(d)	1.5E+00		mg/kg	9.9E-01	95% KM (t) UCL	(4)
Cobalt	mg/kg	7.8E+00	(c)	2.7E+01		mg/kg	1.3E+01	95% Adjusted Gamma UCL	(4)
Iron	mg/kg	1.2E+04	(a)	1.9E+04		mg/kg	1.4E+04	95% Student's-t UCL	(4)
Manganese	mg/kg	2.9E+02	(d)	6.2E+02		mg/kg	3.6E+02	95% Student's-t UCL	(4)
Thallium	mg/kg	4.3E-01	(c)	1.5E+00		mg/kg	8.1E-01	95% KM Adjusted Gamma UCL	(4)
Vanadium	mg/kg	2.6E+01	(b)	7.0E+01		mg/kg	4.6E+01	95% Chebyshev (Mean, Sd) UCL	(4)

Table 34

Exposure Point Concentration (EPC) Summary for Chemicals of Potential Concern in EU04 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU04 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

Chemicals of Potential Concern	Units	Mean (1)	Data Distribution (2)	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Medium EPC Value	Medium EPC Statistic (3)	Medium EPC Rationale
Polychlorinated Biphenyls									
Aroclor-1254 (PCB-1254)	µg/kg	4.7E+01	(d)	2.1E+02		µg/kg	7.3E+01	95% KM (t) UCL	(4)

Notes:

J - Estimated concentration.
(1) The Kaplan-Meier estimation method for non-detects was used, as per USEPA (2013).
(2) Data Distribution (Note: data distribution calculated by ProUCL are based on detected values only:
(a) Data set is neither normally, gamma or lognormally distributed.
(b) Data set is lognormally distributed.
(c) Data set is gamma distributed.
(d) Data set is normally distributed.
(3) Statistics (Note: 95% UCL values are calculated using ProUCL software, Version 5.1.
95% Student's-t UCL = UCL of the mean based upon the student's-t statistic
95% KM (t) UCL = UCL based upon Kaplan-Meier Estimates for non-detects using Student's t-Distribution Critical Value
95% Adjusted Gamma UCL = gamma adjusted UCL when n<50
95% KM Adjusted Gamma UCL = gamma adjusted UCL based upon Kaplan-Meier Estimates when n<50
95% Chebyshev (Mean, Sd) UCL = UCL of mean and standard deviation using the Chebyshev Inequality
99% Chebyshev (Mean, Sd) UCL = UCL of mean and standard deviation using the Chebyshev Inequality
95% KM Bootstrap t UCL = UCL based upon Kaplan-Meier Estimates for non-detects using Bootstrap method
95% Hall's Bootstrap UCL = UCL based upon using Hall's Bootstrap method
(4) ProUCL recommended value is used as the EPC value. In the event of more than one recommended EPC value, the higher EPC value is used.
(5) Due to the limited dataset an EPC could not be calculated, therefore the maximum detected is the EPC for the surface soil exposure.

Table 35

Exposure Point Concentration (EPC) Summary for Chemicals of Concern in EU03-EU04 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU03-EU04 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

Chemicals of Potential Concern	Units	Mean (1)	Data Distribution (2)	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Medium EPC Value	Medium EPC Statistic (3)	Medium EPC Rationale
Semi-Volatiles Organic Compounds									
Benzo(a)anthracene	µg/kg	2.2E+04	(b)	2.6E+05		µg/kg	2.4E+05	99% Chebyshev (Mean, Sd) UCL	(4)
Benzo(a)pyrene	µg/kg	2.3E+04	(b)	2.7E+05		µg/kg	2.5E+05	99% Chebyshev (Mean, Sd) UCL	(4)
Benzo(b)fluoranthene	µg/kg	2.8E+04	(b)	3.3E+05		µg/kg	3.0E+05	99% Chebyshev (Mean, Sd) UCL	(4)
Benzo(k)fluoranthene	µg/kg	1.1E+04	(b)	1.3E+05		µg/kg	1.2E+05	99% KM Chebyshev UCL	(4)
Carbazole	µg/kg	7.7E+03	(d)	9.2E+04		µg/kg	2.4E+04	95% KM (t) UCL	(4)
Chrysene	µg/kg	2.1E+04	(b)	2.5E+05		µg/kg	2.3E+05	99% Chebyshev (Mean, Sd) UCL	(4)
Dibenz(a,h)anthracene	µg/kg	3.3E+03	(b)	3.9E+04		µg/kg	3.7E+04	99% KM Chebyshev UCL	(4)
Dibenzofuran	µg/kg	2.5E+03	(b)	3.0E+04		µg/kg	2.9E+04	99% KM Chebyshev UCL	(4)
Flouroanthene	µg/kg	5.0E+04	(b)	5.9E+05		µg/kg	5.4E+05	99% Chebyshev (Mean, Sd) UCL	(4)
Indeno(1,2,3-cd)pyrene	µg/kg	1.0E+04	(b)	1.2E+05		µg/kg	1.1E+05	99% KM Chebyshev UCL	(4)
Naphthalene	µg/kg	1.5E+03	(b)	1.8E+04		µg/kg	1.7E+04	99% KM Chebyshev UCL	(4)
Phenanthrene	µg/kg	4.0E+04	(b)	4.8E+05		µg/kg	4.4E+05	99% Chebyshev (Mean, Sd) UCL	(4)
Pyrene	µg/kg	3.8E+04	(b)	4.5E+05		µg/kg	4.1E+05	99% Chebyshev (Mean, Sd) UCL	(4)
Metals									
Aluminum	mg/kg	7.1E+03	(d)	1.5E+04	J	mg/kg	8.5E+03	95% Student's-t UCL	(4)
Antimony	mg/kg	1.4E+00	(b)	1.2E+01	J	mg/kg	5.6E+00	95% KM Chebyshev UCL	(4)
Arsenic	mg/kg	1.3E+01	(b)	5.0E+01		mg/kg	3.0E+01	95% Chebyshev (Mean, Sd) UCL	(4)
Chromium VI (hexavalent)	mg/kg	5.2E-01	(d)	1.3E+00		mg/kg	6.9E-01	95% KM (t) UCL	(4)
Cobalt	mg/kg	7.6E+00	(c)	2.7E+01		mg/kg	1.2E+01	95% Adjusted Gamma UCL	(4)
Iron	mg/kg	1.8E+04	(d)	5.4E+04		mg/kg	2.4E+04	95% Modified-t UCL	(4)
Lead	mg/kg	1.2E+02	(b)	1.0E+03		mg/kg	4.7E+02	95% Chebyshev (Mean, Sd) UCL	(4)
Manganese	mg/kg	8.7E+02	(a)	6.0E+03		mg/kg	2.9E+03	95% Chebyshev (Mean, Sd) UCL	(4)

Table 35

Exposure Point Concentration (EPC) Summary for Chemicals of Concern in EU03-EU04 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU03-EU04 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

Chemicals of Potential Concern	Units	Mean (1)	Data Distribution (2)	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Medium EPC Value	Medium EPC Statistic (3)	Medium EPC Rationale
Metals (cont.'d)									
Thallium	mg/kg	3.2E-01	(b)	1.3E+00		mg/kg	6.0E-01	95% KM H-UCL	(4)
Vanadium	mg/kg	3.6E+01	(b)	1.7E+02		mg/kg	9.1E+01	95% Chebyshev (Mean, Sd) UCL	(4)

Notes:

J - Estimated concentration.
(1) The Kaplan-Meier estimation method for non-detects was used, as per USEPA (2013).
(2) Data Distribution (Note: data distribution calculated by ProUCL are based on detected values only:
(a) Data set is neither normally, gamma or lognormally distributed.
(b) Data set is lognormally distributed.
(c) Data set is gamma distributed.
(d) Data set is normally distributed.
(3) Statistics (Note: 95% UCL values are calculated using ProUCL software, Version 5.1.
95% Student's-t UCL = UCL of the mean based upon the student's-t statistic
95% KM (t) UCL = UCL based upon Kaplan-Meier Estimates for non-detects using Student's t-Distribution Critical Value
95% Modified-t UCL = 95% UCL of the mean based upon the modified student's-t statistic
95% Chebyshev (Mean, Sd) UCL = UCL of mean and standard deviation using the Chebyshev Inequality
99% Chebyshev (Mean, Sd) UCL = UCL of mean and standard deviation using the Chebyshev Inequality
95% KM Chebyshev UCL = UCL based upon Kaplan-Meier Estimates for non-detects using the Chebyshev Inequality
99% KM Chebyshev UCL = UCL based upon Kaplan-Meier Estimates for non-detects using the Chebyshev Inequality
95% KM H-UCL = UCL based upon Kaplan-Meier Estimates for non-detects using Land's H-statistic
(4) ProUCL recommended value is used as the EPC value. In the event of more than one recommended EPC value, the higher EPC value is used.

Table 36

Exposure Point Concentration (EPC) Summary for Chemicals of Concern in EU03-EU04 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU03-EU04 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

Chemicals of Potential Concern	Units	Mean (1)	Data Distribution (2)	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Medium EPC Value	Medium EPC Statistic (3)	Medium EPC Rationale
Semi-Volatiles Organic Compounds									
Benzo(a)anthracene	µg/kg	9.7E+03	(b)	2.6E+05		µg/kg	6.8E+04	97.5% KM Chebyshev UCL	(4)
Benzo(a)pyrene	µg/kg	1.0E+04	(b)	2.7E+05		µg/kg	7.0E+04	97.5% KM Chebyshev UCL	(4)
Benzo(b)fluoranthene	µg/kg	1.2E+04	(b)	3.3E+05		µg/kg	8.6E+04	97.5% KM Chebyshev UCL	(4)
Benzo(k)fluoranthene	µg/kg	4.9E+03	(a)	1.3E+05		µg/kg	3.4E+04	97.5% KM Chebyshev UCL	(4)
Carbazole	µg/kg	3.4E+03	(b)	9.2E+04		µg/kg	3.8E+04	99% KM Chebyshev UCL	(4)
Chrysene	µg/kg	9.4E+03	(b)	2.5E+05		µg/kg	6.5E+04	97.5% KM Chebyshev UCL	(4)
Dibenz(a,h)anthracene	µg/kg	1.5E+03	(b)	3.9E+04		µg/kg	1.0E+04	97.5% KM Chebyshev UCL	(4)
Dibenzofuran	µg/kg	1.2E+03	(b)	3.0E+04		µg/kg	8.2E+03	97.5% KM Chebyshev UCL	(4)
Flouroanthene	µg/kg	2.2E+04	(a)	5.9E+05		µg/kg	1.5E+05	97.5% KM Chebyshev UCL	(4)
Indeno(1,2,3-cd)pyrene	µg/kg	4.5E+03	(b)	1.2E+05		µg/kg	3.1E+04	97.5% KM Chebyshev UCL	(4)
Naphthalene	µg/kg	7.0E+02	(a)	1.8E+04		µg/kg	3.5E+03	95% KM Chebyshev UCL	(4)
Phenanthrene	µg/kg	1.8E+04	(b)	4.8E+05		µg/kg	1.3E+05	97.5% KM Chebyshev UCL	(4)
Pyrene	µg/kg	1.7E+04	(a)	4.5E+05		µg/kg	1.2E+05	97.5% KM Chebyshev UCL	(4)
Metals									
Aluminum	mg/kg	6.3E+03	(d)	1.5E+04	J	mg/kg	7.3E+03	95% Student's-t UCL	(4)
Antimony	mg/kg	9.6E-01	(a)	1.2E+01	J	mg/kg	2.9E+00	95% KM Chebyshev UCL	(4)
Arsenic	mg/kg	1.2E+01	(a)	5.6E+01		mg/kg	2.2E+01	95% Chebyshev (Mean, Sd) UCL	(4)
Cadmium	mg/kg	7.8E-01	(a)	1.5E+01		mg/kg	3.1E+00	95% KM Chebyshev UCL	(4)
Chromium VI (hexavalent)	mg/kg	6.5E-01	(d)	1.7E+00		mg/kg	8.0E-01	95% KM (t) UCL	(4)
Cobalt	mg/kg	6.1E+00	(c)	2.7E+01		mg/kg	7.9E+00	95% Adjusted Gamma UCL	(4)
Iron	mg/kg	1.4E+04	(a)	5.4E+04		mg/kg	2.1E+04	95% Chebyshev (Mean, Sd) UCL	(4)
Lead	mg/kg	8.0E+01	(b)	1.0E+03		mg/kg	2.5E+02	95% Chebyshev (Mean, Sd) UCL	(4)
Manganese	mg/kg	5.4E+02	(a)	6.0E+03		mg/kg	1.4E+03	95% Chebyshev (Mean, Sd) UCL	(4)
Thallium	mg/kg	2.9E-01	(b)	1.5E+00		mg/kg	4.1E-01	95% KM H-UCL	(4)
Vanadium	mg/kg	2.7E+01	(a)	1.7E+02		mg/kg	5.2E+01	95% Chebyshev (Mean, Sd) UCL	(4)

Table 36

Exposure Point Concentration (EPC) Summary for Chemicals of Concern in EU03-EU04 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU03-EU04 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

Chemicals of Potential Concern	Units	Mean (1)	Data Distribution (2)	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Medium EPC Value	Medium EPC Statistic (3)	Medium EPC Rationale
Polychlorinated Biphenyls									
Aroclor-1242 (PCB-1242)	µg/kg	--	--	9.8E+02		µg/kg	9.8E+02	Maximum Detected	(5)
Aroclor-1254 (PCB-1254)	µg/kg	8.2E+01	(c)	1.3E+03		µg/kg	2.8E+02	95% KM Adjusted Gamma UCL	(4)

Notes:

J - Estimated concentration.
(1) The Kaplan-Meier estimation method for non-detects was used, as per USEPA (2013).
(2) Data Distribution (Note: data distribution calculated by ProUCL are based on detected values only:
(a) Data set is neither normally, gamma or lognormally distributed.
(b) Data set is lognormally distributed.
(c) Data set is gamma distributed.
(d) Data set is normally distributed.
(3) Statistics (Note: 95% UCL values are calculated using ProUCL software, Version 5.1.
95% Student's-t UCL = UCL of the mean based upon the student's-t statistic
95% KM (t) UCL = UCL based upon Kaplan-Meier Estimates for non-detects using Student's t-Distribution Critical Value
95% Adjusted Gamma UCL = gamma adjusted UCL when n<50
95% KM Adjusted Gamma UCL = gamma adjusted UCL based upon Kaplan-Meier Estimates when n<50
95% Chebyshev (Mean, Sd) UCL = UCL of mean and standard deviation using the Chebyshev Inequality
95% KM Chebyshev UCL = UCL based upon Kaplan-Meier Estimates for non-detects using the Chebyshev Inequality
97.5% KM Chebyshev UCL = UCL based upon Kaplan-Meier Estimates for non-detects using the Chebyshev Inequality
99% KM Chebyshev UCL = UCL based upon Kaplan-Meier Estimates for non-detects using the Chebyshev Inequality
95% KM H-UCL = UCL based upon Kaplan-Meier Estimates for non-detects using Land's H-statistic
(4) ProUCL recommended value is used as the EPC value. In the event of more than one recommended EPC value, the higher EPC value is used.
(5) Due to the limited dataset an EPC could not be calculated, therefore the maximum detected is the EPC for the subsurface soil exposure.

Table 37

Exposure Point Concentration (EPC) Summary for Chemicals of Potential Concern in EU05-EU08 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU05-EU08 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

Chemicals of Potential Concern	Units	Mean (1)	Data Distribution (2)	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Medium EPC Value	Medium EPC Statistic (3)	Medium EPC Rationale
Semi-Volatiles Organic Compounds									
Benzo(a)anthracene	µg/kg	3.8E+02	(c)	1.9E+03		µg/kg	9.6E+02	95% Adjusted Gamma UCL	(4)
Benzo(a)pyrene	µg/kg	3.9E+02	(c)	1.6E+03		µg/kg	9.7E+02	95% Adjusted Gamma UCL	(4)
Benzo(b)fluoranthene	µg/kg	5.6E+02	(c)	2.1E+03		µg/kg	1.4E+03	95% Adjusted Gamma UCL	(4)
Carbazole	µg/kg	6.2E+01	(c)	3.2E+02		µg/kg	1.7E+02	95% KM Adjusted Gamma UCL	(4)
Dibenz(a,h)anthracene	µg/kg	3.7E+01	(d)	2.0E+02		µg/kg	7.2E+01	95% KM (t) UCL	(4)
Metals									
Aluminum	mg/kg	5.6E+03	(d)	9.8E+03		mg/kg	6.97E+03	95% Student's-t UCL	(4)
Arsenic	mg/kg	1.6E+01	(a)	5.9E+01		mg/kg	3.7E+01	95% Chebyshev (Mean, Sd) UCL	(4)
Chromium VI (hexavalent)	mg/kg	4.9E-01	(d)	1.5E+00		mg/kg	7.1E-01	95% KM (t) UCL	(4)
Cobalt	mg/kg	6.0E+00	(b)	1.2E+01		mg/kg	7.6E+00	95% H-UCL	(4)
Copper	mg/kg	1.0E+02	(a)	9.6E+02		mg/kg	4.4E+02	95% Chebyshev (Mean, Sd) UCL	(4)
Iron	mg/kg	1.2E+04	(d)	1.8E+04		mg/kg	1.4E+04	95% Student's-t UCL	(4)
Manganese	mg/kg	3.2E+02	(d)	9.5E+02	J	mg/kg	4.6E+02	95% Student's-t UCL	(4)
Nickel	mg/kg	7.2E+01	(a)	7.0E+02		mg/kg	3.2E+02	95% Chebyshev (Mean, Sd) UCL	(4)
Thallium	mg/kg	5.2E-01	(c)	2.7E+00		mg/kg	1.2E+00	95% Adjusted Gamma UCL	(4)
Vanadium	mg/kg	2.5E+01	(d)	4.5E+01		mg/kg	3.2E+01	95% Student's-t UCL	(4)

Table 37

Exposure Point Concentration (EPC) Summary for Chemicals of Potential Concern in EU05-EU08 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU05-EU08 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

Chemicals of Potential Concern	Units	Mean (1)	Data Distribution (2)	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Medium EPC Value	Medium EPC Statistic (3)	Medium EPC Rationale
Polychlorinated Biphenyls									
Aroclor-1248 (PCB-1248)	µg/kg	--	--	4.0E+02		µg/kg	4.0E+02	Maximum Detected	(5)
Aroclor-1254 (PCB-1254)	µg/kg	4.7E+01	(d)	1.6E+02		µg/kg	7.2E+01	95% KM (t) UCL	(4)

Notes:

J - Estimated concentration.
(1) The Kaplan-Meier estimation method for non-detects was used, as per USEPA (2013).
(2) Data Distribution (Note: data distribution calculated by ProUCL are based on detected values only:
(a) Data set is neither normally, gamma or lognormally distributed.
(b) Data set is lognormally distributed.
(c) Data set is gamma distributed.
(d) Data set is normally distributed.
(3) Statistics (Note: 95% UCL values are calculated using ProUCL software, Version 5.1.
95% Student's-t UCL = UCL of the mean based upon the student's-t statistic
95% KM (t) UCL = UCL based upon Kaplan-Meier Estimates for non-detects using Student's t-Distribution Critical Value
95% Adjusted Gamma UCL = gamma adjusted UCL when n<50
95% KM Adjusted Gamma UCL = gamma adjusted UCL based upon Kaplan-Meier Estimates when n<50
95% Chebyshev (Mean, Sd) UCL = UCL of mean and standard deviation using the Chebyshev Inequality
95% H-UCL = UCL based using Land's H-statistic
(4) ProUCL recommended value is used as the EPC value. In the event of more than one recommended EPC value, the higher EPC value is used.
(5) Due to the limited dataset an EPC could not be calculated, therefore the maximum detected is the EPC for the surface soil exposure.

Table 38

Exposure Point Concentration (EPC) Summary for Chemicals of Potential Concern in EU05-EU08 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU05-EU08 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

Chemicals of Potential Concern	Units	Mean (1)	Data Distribution (2)	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Medium EPC Value	Medium EPC Statistic (3)	Medium EPC Rationale
Semi-Volatiles Organic Compounds									
Benzo(a)anthracene	µg/kg	3.2E+02	(c)	1.9E+03		µg/kg	6.3E+02	95% KM Adjusted Gamma UCL	(4)
Benzo(a)pyrene	µg/kg	3.3E+02	(c)	1.6E+03		µg/kg	6.2E+02	95% Adjusted Gamma UCL	(4)
Benzo(b)fluoranthene	µg/kg	4.7E+02	(c)	2.1E+03		µg/kg	8.6E+02	95% Adjusted Gamma UCL	(4)
Carbazole	µg/kg	6.0E+01	(c)	3.2E+02		µg/kg	1.1E+02	95% KM Adjusted Gamma UCL	(4)
Dibenz(a,h)anthracene	µg/kg	3.5E+01	(d)	2.0E+02		µg/kg	5.6E+01	95% KM (t) UCL	(4)
Metals									
Aluminum	mg/kg	6.3E+03	(d)	1.2E+04		mg/kg	7.4E+03	95% Student's-t UCL	(4)
Antimony	mg/kg	6.3E-01	(b)	5.4E+00	J	mg/kg	8.1E-01	95% KM H-UCL	(4)
Arsenic	mg/kg	1.3E+01	(a)	5.9E+01		mg/kg	2.5E+01	95% Chebyshev (Mean, Sd) UCL	(4)
Chromium VI (hexavalent)	mg/kg	8.1E-01	(b)	7.5E+00	J	mg/kg	1.0E+00	95% KM H-UCL	(4)
Cobalt	mg/kg	5.8E+00	(d)	1.2E+01		mg/kg	6.7E+00	95% Student's-t UCL	(4)
Copper	mg/kg	8.3E+01	(a)	9.6E+02		mg/kg	2.8E+02	95% Chebyshev (Mean, Sd) UCL	(4)
Iron	mg/kg	1.3E+04	(d)	2.3E+04		mg/kg	1.5E+04	95% Student's-t UCL	(4)
Manganese	mg/kg	3.8E+02	(d)	1.0E+03		mg/kg	4.8E+02	95% Student's-t UCL	(4)
Nickel	mg/kg	7.0E+01	(a)	7.0E+02		mg/kg	2.4E+02	95% Chebyshev (Mean, Sd) UCL	(4)
Thallium	mg/kg	3.6E-01	(a)	2.7E+00		mg/kg	9.3E-01	95% KM Chebyshev UCL	(4)
Vanadium	mg/kg	2.4E+01	(d)	4.5E+01		mg/kg	2.8E+01	95% Student's-t UCL	(4)

Table 38

Exposure Point Concentration (EPC) Summary for Chemicals of Potential Concern in EU05-EU08 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU05-EU08 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

Chemicals of Potential Concern	Units	Mean (1)	Data Distribution (2)	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Medium EPC Value	Medium EPC Statistic (3)	Medium EPC Rationale
Polychlorinated Biphenyls									
Aroclor-1248 (PCB-1248)	µg/kg	4.5E+01	(a)	4.0E+02		µg/kg	1.5E+02	95% KM Chebyshev UCL	(4)
Aroclor-1254 (PCB-1254)	µg/kg	3.8E+01	(d)	1.6E+02		µg/kg	5.2E+01	95% KM (t) UCL	(4)

Notes:

J - Estimated concentration.
(1) The Kaplan-Meier estimation method for non-detects was used, as per USEPA (2013).
(2) Data Distribution (Note: data distribution calculated by ProUCL are based on detected values only:
(a) Data set is neither normally, gamma or lognormally distributed.
(b) Data set is lognormally distributed.
(c) Data set is gamma distributed.
(d) Data set is normally distributed.
(3) Statistics (Note: 95% UCL values are calculated using ProUCL software, Version 5.1.
95% Student's-t UCL = UCL of the mean based upon the student's-t statistic
95% KM (t) UCL = UCL based upon Kaplan-Meier Estimates for non-detects using Student's t-Distribution Critical Value
95% Adjusted Gamma UCL = gamma adjusted UCL when n<50
95% KM Adjusted Gamma UCL = gamma adjusted UCL based upon Kaplan-Meier Estimates when n<50
95% Chebyshev (Mean, Sd) UCL = UCL of mean and standard deviation using the Chebyshev Inequality
95% KM H-UCL = UCL based upon Kaplan-Meier Estimates for non-detects using Land's H-statistic
95% KM Chebyshev UCL = UCL based upon Kaplan-Meier Estimates for non-detects using the Chebyshev Inequality
(4) ProUCL recommended value is used as the EPC value. In the event of more than one recommended EPC value, the higher EPC value is used.
(5) Due to the limited dataset an EPC could not be calculated, therefore the maximum detected is the EPC for the surface soil exposure.

Table 39

Exposure Point Concentration (EPC) Summary for Chemicals of Potential Concern in EU09 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU09 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

Chemicals of Potential Concern	Units	Mean (1)	Data Distribution (2)	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Medium EPC Value	Medium EPC Statistic (3)	Medium EPC Rationale
Volatiles Organic Compounds									
1,1-Dichloroethane	µg/kg	--	--	4.3E+00	J	µg/kg	4.3E+00	Maximum Detected	(5)
Semi-Volatiles Organic Compounds									
Benzo(a)anthracene	µg/kg	4.8E+03	(c)	2.7E+04		µg/kg	1.5E+05	95% KM Bootstrap t UCL	(4)
Benzo(a)pyrene	µg/kg	3.1E+03	(c)	1.7E+04		µg/kg	7.8E+04	95% KM Bootstrap t UCL	(4)
Benzo(b)fluoranthene	µg/kg	4.7E+03	(c)	2.5E+04		µg/kg	6.2E+04	95% Adjusted Gamma UCL	(4)
Carbazole	µg/kg	1.5E+03	(c)	8.4E+03		µg/kg	3.0E+04	95% KM Adjusted Gamma UCL	(4)
Dibenz(a,h)anthracene	µg/kg	5.2E+02	(c)	2.7E+03		µg/kg	1.1E+04	95% KM Bootstrap t UCL	(4)
Indeno(1,2,3-cd)pyrene	µg/kg	1.5E+03	(c)	7.6E+03		µg/kg	2.6E+04	95% KM Bootstrap t UCL	(4)
Metals									
Arsenic	mg/kg	9.2E+00	(d)	1.5E+01		mg/kg	1.3E+01	95% Student's-t UCL	(4)
Chromium VI (hexavalent)	mg/kg	5.6E-01	(a)	1.9E+00		mg/kg	2.1E+00	95% KM Chebyshev UCL	(4)
Cobalt	mg/kg	4.9E+00	(d)	6.8E+00		mg/kg	5.9E+00	95% Student's-t UCL	(4)
Copper	mg/kg	6.4E+02	(a)	3.7E+03		mg/kg	4.5E+03	97.5% Chebyshev (Mean, Sd) UCL	(4)
Iron	mg/kg	1.5E+04	(d)	2.4E+04		mg/kg	1.9E+04	95% Student's-t UCL	(4)
Manganese	mg/kg	3.7E+02	(d)	5.6E+02		mg/kg	4.7E+02	95% Student's-t UCL	(4)
Thallium	mg/kg	2.5E-01	(d)	5.3E-01		mg/kg	3.9E-01	95% Student's-t UCL	(4)
Vanadium	mg/kg	2.7E+01	(d)	6.0E+01		mg/kg	4.1E+01	95% Student's-t UCL	(4)
Polychlorinated Biphenyls									
Aroclor-1254 (PCB-1254)	µg/kg	5.7E+01	(a)	1.7E+02		µg/kg	2.1E+02	95% KM Chebyshev UCL	(4)

Notes:

J - Estimated concentration.
(1) The Kaplan-Meier estimation method for non-detects was used, as per USEPA (2013).
(2) Data Distribution (Note: data distribution calculated by ProUCL are based on detected values only:
(a) Data set is neither normally, gamma or lognormally distributed.
(b) Data set is lognormally distributed.
(c) Data set is gamma distributed.
(d) Data set is normally distributed.
(3) Statistics (Note: 95% UCL values are calculated using ProUCL software, Version 5.1.
95% Student's-t UCL = UCL of the mean based upon the student's-t statistic
95% Adjusted Gamma UCL = gamma adjusted UCL when n<50
95% KM Adjusted Gamma UCL = gamma adjusted UCL based upon Kaplan-Meier Estimates when n<50
95% KM Chebyshev UCL = UCL based upon Kaplan-Meier Estimates for non-detects using the Chebyshev Inequality
95% KM Bootstrap t UCL = UCL based upon Kaplan-Meier Estimates for non-detects using Bootstrap method
97.5% Chebyshev (Mean, Sd) UCL = UCL of mean and standard deviation using the Chebyshev Inequality
(4) ProUCL recommended value is used as the EPC value. In the event of more than one recommended EPC value, the higher EPC value is used.
(5) Due to the limited dataset an EPC could not be calculated, therefore the maximum detected is the EPC for the surface soil exposure.

Table 40

Exposure Point Concentration (EPC) Summary for Chemicals of Potential Concern in EU09 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU09 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

Chemicals of Potential Concern	Units	Mean (1)	Data Distribution (2)	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Medium EPC Value	Medium EPC Statistic (3)	Medium EPC Rationale
Volatiles Organic Compounds									
1,1-Dichloroethane	µg/kg	--	--	4.3E+00	J	µg/kg	4.3E+00	Maximum Detected	(6)
Semi-Volatiles Organic Compounds									
Benzo(a)anthracene	µg/kg	2.7E+03	(b)	2.7E+04		µg/kg	1.8E+04	97.5% KM Chebyshev UCL	(5)
Benzo(a)pyrene	µg/kg	1.8E+03	(b)	1.7E+04		µg/kg	1.1E+04	97.5% KM Chebyshev UCL	(5)
Benzo(b)fluoranthene	µg/kg	2.7E+03	(b)	2.5E+04		µg/kg	2.5E+04	99% Chebyshev (Mean, Sd) UCL	(4)
Carbazole	µg/kg	8.2E+02	(b)	8.4E+03		µg/kg	8.7E+03	99% KM Chebyshev UCL	(4)
Dibenz(a,h)anthracene	µg/kg	2.9E+02	(b)	2.7E+03		µg/kg	1.8E+03	97.5% KM Chebyshev UCL	(5)
Indeno(1,2,3-cd)pyrene	µg/kg	8.5E+02	(b)	7.6E+03		µg/kg	5.1E+03	97.5% KM Chebyshev UCL	(5)
Metals									
Aluminum	mg/kg	5.6E+03	(d)	9.3E+03		mg/kg	6.6E+03	95% Student's-t UCL	(4)
Arsenic	mg/kg	9.3E+00	(d)	1.6E+01		mg/kg	1.2E+01	95% Student's-t UCL	(4)
Chromium VI (hexavalent)	mg/kg	7.4E-01	(d)	1.9E+00		mg/kg	1.1E+00	95% KM (t) UCL	(4)
Cobalt	mg/kg	5.5E+00	(d)	9.8E+00		mg/kg	6.6E+00	95% Student's-t UCL	(4)
Copper	mg/kg	7.9E+02	(a)	4.7E+03		mg/kg	5.9E+03	99% Chebyshev (Mean, Sd) UCL	(4)
Cyanide (total)	mg/kg	8.5E-01	(d)	7.1E+00		mg/kg	2.3E+00	95% KM (t) UCL	(4)
Iron	mg/kg	1.7E+04	(c)	5.9E+04		mg/kg	2.7E+04	95% Adjusted Gamma UCL	(4)
Lead	mg/kg	1.5E+02	(d)	6.8E+02		mg/kg	2.6E+02	95% Student's-t UCL	(4)
Manganese	mg/kg	4.1E+02	(d)	8.1E+02		mg/kg	5.2E+02	95% Student's-t UCL	(4)
Thallium	mg/kg	2.3E-01	(d)	5.3E-01		mg/kg	3.0E-01	95% Student's-t UCL	(4)
Vanadium	mg/kg	2.2E+01	(c)	6.0E+01		mg/kg	3.1E+01	95% Adjusted Gamma UCL	(4)

Table 40

Exposure Point Concentration (EPC) Summary for Chemicals of Potential Concern in EU09 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU09 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

Chemicals of Potential Concern	Units	Mean (1)	Data Distribution (2)	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Medium EPC Value	Medium EPC Statistic (3)	Medium EPC Rationale
Polychlorinated Biphenyls									
Aroclor-1254 (PCB-1254)	µg/kg	3.8E+01	(d)	1.7E+02		µg/kg	7.0E+01	95% KM (t) UCL	(4)

Notes:

J - Estimated concentration.
(1) The Kaplan-Meier estimation method for non-detects was used, as per USEPA (2013).
(2) Data Distribution (Note: data distribution calculated by ProUCL are based on detected values only:
(a) Data set is neither normally, gamma or lognormally distributed.
(b) Data set is lognormally distributed.
(c) Data set is gamma distributed.
(d) Data set is normally distributed.
(3) Statistics (Note: 95% UCL values are calculated using ProUCL software, Version 5.1.
95% Student's-t UCL = UCL of the mean based upon the student's-t statistic
95% Adjusted Gamma UCL = gamma adjusted UCL when n<50
97.5% KM Chebyshev UCL = UCL based upon Kaplan-Meier Estimates for non-detects using the Chebyshev Inequality
99% KM Chebyshev UCL = UCL based upon Kaplan-Meier Estimates for non-detects using the Chebyshev Inequality
99% Chebyshev (Mean, Sd) UCL = UCL of mean and standard deviation using the Chebyshev Inequality
(4) ProUCL recommended value is used as the EPC value. In the event of more than one recommended EPC value, the higher EPC value is used.
(5) Recommended UCL exceeds maximum observation, therefore the EPC is the lower suggested UCL.
(6) Due to the limited dataset an EPC could not be calculated, therefore the maximum detected is the EPC for the surface soil exposure.

Table 41

Exposure Point Concentration (EPC) Summary for Chemicals of Potential Concern in EU10 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU10 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

Chemicals of Potential Concern	Units	Mean (1)	Data Distribution (2)	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Medium EPC Value	Medium EPC Statistic (3)	Medium EPC Rationale
Semi-Volatiles Organic Compounds									
Benzo(a)pyrene	µg/kg	2.4E+02	(c)	8.4E+02		µg/kg	6.0E+02	95% Adjusted Gamma UCL	(4)
Benzo(b)fluoranthene	µg/kg	4.0E+02	(c)	1.3E+03		µg/kg	9.4E+02	95% Adjusted Gamma UCL	(4)
Carbazole	µg/kg	6.0E+01	(a)	2.8E+02		µg/kg	2.1E+02	95% KM Chebyshev UCL	(4)
Dibenz(a,h)anthracene	µg/kg	5.0E+01	(c)	1.5E+02		µg/kg	1.1E+02	95% Adjusted Gamma UCL	(4)
Metals									
Aluminum	mg/kg	6.6E+03	(d)	1.2E+04		mg/kg	9.1E+03	95% Student's-t UCL	(4)
Arsenic	mg/kg	1.0E+01	(c)	2.7E+01		mg/kg	1.8E+01	95% Adjusted Gamma UCL	(4)
Chromium VI (hexavalent)	mg/kg	3.0E-01	(d)	4.4E-01	J	mg/kg	3.7E-01	95% KM (t) UCL	(4)
Cobalt	mg/kg	5.6E+00	(d)	8.9E+00		mg/kg	7.1E+00	95% Student's-t UCL	(4)
Iron	mg/kg	1.4E+04	(d)	2.7E+04		mg/kg	1.8E+04	95% Student's-t UCL	(4)
Manganese	mg/kg	3.4E+02	(d)	5.5E+02		mg/kg	4.2E+02	95% Student's-t UCL	(4)
Thallium	mg/kg	2.1E-01	(d)	3.8E-01		mg/kg	2.8E-01	95% Student's-t UCL	(4)
Polychlorinated Biphenyls									
Aroclor-1254 (PCB-1254)	µg/kg	1.9E+02	(d)	7.6E+02	J	µg/kg	4.0E+02	95% KM (t) UCL	(4)

Table 41

Exposure Point Concentration (EPC) Summary for Chemicals of Potential Concern in EU10 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU10 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

Chemicals of Potential Concern	Units	Mean (1)	Data Distribution (2)	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Medium EPC Value	Medium EPC Statistic (3)	Medium EPC Rationale
Pesticides									
Dieldrin	µg/kg	6.1E+00	(a)	3.7E+01	J	µg/kg	4.3E+01	97.5% KM Chebyshev UCL	(5)

Notes:

J - Estimated concentration.
(1) The Kaplan-Meier estimation method for non-detects was used, as per USEPA (2013).
(2) Data Distribution (Note: data distribution calculated by ProUCL are based on detected values only:
(a) Data set is neither normally, gamma or lognormally distributed.
(b) Data set is lognormally distributed.
(c) Data set is gamma distributed.
(d) Data set is normally distributed.
(3) Statistics (Note: 95% UCL values are calculated using ProUCL software, Version 5.1.
95% Student's-t UCL = UCL of the mean based upon the student's-t statistic
95% KM (t) UCL = UCL based upon Kaplan-Meier Estimates for non-detects using Student's t-Distribution Critical Value
95% Adjusted Gamma UCL = gamma adjusted UCL when n<50
95% KM Chebyshev UCL = UCL based upon Kaplan-Meier Estimates for non-detects using the Chebyshev Inequality
97.5% KM Chebyshev UCL = UCL based upon Kaplan-Meier Estimates for non-detects using the Chebyshev Inequality
(4) ProUCL recommended value is used as the EPC value. In the event of more than one recommended EPC value, the higher EPC value is used.

Table 42

Exposure Point Concentration (EPC) Summary for Chemicals of Potential Concern in EU10 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU10 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

Chemicals of Potential Concern	Units	Mean (1)	Data Distribution (2)	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Medium EPC Value	Medium EPC Statistic (3)	Medium EPC Rationale
Semi-Volatiles Organic Compounds									
Benzo(a)pyrene	µg/kg	2.4E+02	(c)	8.4E+02		µg/kg	4.5E+02	95% Adjusted Gamma UCL	(4)
Benzo(b)fluoranthene	µg/kg	3.9E+02	(c)	1.3E+03		µg/kg	7.0E+02	95% Adjusted Gamma UCL	(4)
Carbazole	µg/kg	5.0E+01	(a)	2.8E+02		µg/kg	1.5E+02	95% KM Chebyshev UCL	(4)
Dibenz(a,h)anthracene	µg/kg	5.8E+01	(c)	1.5E+02		µg/kg	1.6E+02	95% KM Adjusted Gamma UCL	(4)
Metals									
Aluminum	mg/kg	6.6E+03	(d)	1.2E+04		mg/kg	8.4E+03	95% Student's-t UCL	(4)
Arsenic	mg/kg	1.0E+01	(d)	2.7E+01		mg/kg	1.4E+01	95% Student's-t UCL	(4)
Chromium VI (hexavalent)	mg/kg	3.3E-01	(d)	8.8E-01	J	mg/kg	4.0E-01	95% KM (t) UCL	(4)
Cobalt	mg/kg	5.8E+00	(d)	8.9E+00		mg/kg	6.9E+00	95% Student's-t UCL	(4)
Cyanide (total)	mg/kg	7.8E-01	(a)	7.6E+00		mg/kg	4.8E+00	97.5% KM Chebyshev UCL	(4)
Iron	mg/kg	1.9E+04	(d)	4.7E+04		mg/kg	2.5E+04	95% Student's-t UCL	(4)
Manganese	mg/kg	3.8E+02	(d)	8.9E+02	J	mg/kg	4.6E+02	95% Student's-t UCL	(4)
Thallium	mg/kg	2.0E-01	(d)	3.8E-01		mg/kg	2.5E-01	95% Student's-t UCL	(4)
Polychlorinated Biphenyls									
Aroclor-1254 (PCB-1254)	µg/kg	1.3E+02	(d)	7.6E+02	J	µg/kg	2.7E+02	95% KM (t) UCL	(4)

Table 42

Exposure Point Concentration (EPC) Summary for Chemicals of Potential Concern in EU10 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU10 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

Chemicals of Potential Concern	Units	Mean (1)	Data Distribution (2)	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Medium EPC Value	Medium EPC Statistic (3)	Medium EPC Rationale
Pesticides									
Dieldrin	µg/kg	4.3E+00	(a)	3.7E+01	J	µg/kg	3.0E+01	97.5% KM Chebyshev UCL	(4)

Notes:

J - Estimated concentration.
(1) The Kaplan-Meier estimation method for non-detects was used, as per USEPA (2013).
(2) Data Distribution (Note: data distribution calculated by ProUCL are based on detected values only:
(a) Data set is neither normally, gamma or lognormally distributed.
(b) Data set is lognormally distributed.
(c) Data set is gamma distributed.
(d) Data set is normally distributed.
(3) Statistics (Note: 95% UCL values are calculated using ProUCL software, Version 5.1.
95% Student's-t UCL = UCL of the mean based upon the student's-t statistic
95% KM (t) UCL = UCL based upon Kaplan-Meier Estimates for non-detects using Student's t-Distribution Critical Value
95% Adjusted Gamma UCL = gamma adjusted UCL when n<50
95% KM Adjusted Gamma UCL = gamma adjusted UCL based upon Kaplan-Meier Estimates when n<50
95% KM Chebyshev UCL = UCL based upon Kaplan-Meier Estimates for non-detects using the Chebyshev Inequality
97.5% KM Chebyshev UCL = UCL based upon Kaplan-Meier Estimates for non-detects using the Chebyshev Inequality
(4) ProUCL recommended value is used as the EPC value. In the event of more than one recommended EPC value, the higher EPC value is used.
(5) Due to the limited dataset an EPC could not be calculated, therefore the maximum detected is the EPC for the surface soil exposure.

Table 43

Exposure Point Concentration (EPC) Summary for Chemicals of Potential Concern in EU11 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU11 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

Chemicals of Potential Concern	Units	Mean (1)	Data Distribution (2)	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Medium EPC Value	Medium EPC Statistic (3)	Medium EPC Rationale
Semi-Volatiles Organic Compounds									
Benzo(a)anthracene	µg/kg	3.4E+02	(d)	1.2E+03		µg/kg	6.0E+02	95% Student's-t UCL	(4)
Benzo(a)pyrene	µg/kg	3.6E+02	(c)	1.4E+03		µg/kg	1.4E+03	95% KM Adjusted Gamma UCL	(4)
Benzo(b)fluoranthene	µg/kg	5.1E+02	(c)	2.0E+03		µg/kg	1.9E+03	95% KM Adjusted Gamma UCL	(4)
Carbazole	µg/kg	5.3E+01	(d)	1.2E+02		µg/kg	7.6E+01	95% KM (t) UCL	(4)
Dibenz(a,h)anthracene	µg/kg	5.8E+01	(c)	2.2E+02		µg/kg	2.1E+02	95% KM Adjusted Gamma UCL	(4)
Metals									
Aluminum	mg/kg	5.5E+03	(d)	1.1E+04		mg/kg	7.51E+03	95% Modified-t UCL	(4)
Arsenic	mg/kg	7.6E+00	(d)	1.3E+01		mg/kg	9.6E+00	95% Student's-t UCL	(4)
Chromium VI (hexavalent)	mg/kg	7.3E-01	(a)	3.6E+00		mg/kg	3.1E+00	95% KM Chebyshev UCL	(4)
Cobalt	mg/kg	4.7E+00	(d)	6.9E+00		mg/kg	5.6E+00	95% Student's-t UCL	(4)
Iron	mg/kg	1.5E+04	(d)	2.5E+04		mg/kg	1.9E+04	95% Student's-t UCL	(4)
Manganese	mg/kg	3.9E+02	(d)	5.5E+02		mg/kg	4.5E+02	95% Student's-t UCL	(4)
Thallium	mg/kg	1.5E-01	(d)	2.4E-01		mg/kg	1.8E-01	95% KM (t) UCL	(4)
Polychlorinated Biphenyls									
Aroclor-1254 (PCB-1254)	µg/kg	2.0E+02	(d)	9.1E+02		µg/kg	4.3E+02	95% KM (t) UCL	(4)

Notes:

(1) The Kaplan-Meier estimation method for non-detects was used, as per USEPA (2013).
(2) Data Distribution (Note: data distribution calculated by ProUCL are based on detected values only:
(a) Data set is neither normally, gamma or lognormally distributed.
(b) Data set is lognormally distributed.
(c) Data set is gamma distributed.
(d) Data set is normally distributed.
(3) Statistics (Note: 95% UCL values are calculated using ProUCL software, Version 5.1.
95% Student's-t UCL = UCL of the mean based upon the student's-t statistic
95% KM (t) UCL = UCL based upon Kaplan-Meier Estimates for non-detects using Student's t-Distribution Critical Value
95% Modified-t UCL = 95% UCL of the mean based upon the modified student's-t statistic
95% KM Chebyshev UCL = UCL based upon Kaplan-Meier Estimates for non-detects using the Chebyshev Inequality
95% KM Adjusted Gamma UCL = gamma adjusted UCL based upon Kaplan-Meier Estimates when n<50
(4) ProUCL recommended value is used as the EPC value. In the event of more than one recommended EPC value, the higher EPC value is used.

Table 44

Exposure Point Concentration (EPC) Summary for Chemicals of Potential Concern in EU11 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU11 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Surface Soil

Chemicals of Potential Concern	Units	Mean (1)	Data Distribution (2)	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Medium EPC Value	Medium EPC Statistic (3)	Medium EPC Rationale
Volatile Organic Compounds									
Trichloroethene	µg/kg	1.6E+02	(b)	2.4E+03		µg/kg	1.7E+03	99% KM Chebyshev UCL	(4)
Semi-Volatiles Organic Compounds									
Benzo(a)anthracene	µg/kg	2.6E+02	(c)	1.2E+03		µg/kg	5.4E+02	95% Adjusted Gamma UCL	(4)
Benzo(a)pyrene	µg/kg	2.7E+02	(c)	1.4E+03		µg/kg	5.8E+02	95% KM Adjusted Gamma UCL	(4)
Benzo(b)fluoranthene	µg/kg	3.8E+02	(c)	2.0E+03		µg/kg	7.8E+02	95% Adjusted Gamma UCL	(4)
Carbazole	µg/kg	4.3E+01	(d)	1.2E+02		µg/kg	5.7E+01	95% KM (t) UCL	(4)
Dibenz(a,h)anthracene	µg/kg	4.3E+01	(d)	2.2E+02		µg/kg	6.9E+01	95% KM (t) UCL	(4)
Metals									
Aluminum	mg/kg	6.2E+03	(c)	1.4E+04	J	mg/kg	8.1E+03	95% Adjusted Gamma UCL	(4)
Arsenic	mg/kg	1.0E+01	(b)	4.5E+01		mg/kg	2.1E+01	95% Chebyshev (Mean, Sd) UCL	(4)
Cadmium	mg/kg	1.6E+00	(a)	1.9E+01		mg/kg	6.7E+00	95% KM Chebyshev UCL	(4)
Chromium VI (hexavalent)	mg/kg	1.0E+00	(c)	3.7E+00		mg/kg	1.9E+00	95% KM Adjusted Gamma UCL	(4)
Cobalt	mg/kg	5.9E+00	(c)	2.2E+01		mg/kg	7.9E+00	95% Adjusted Gamma UCL	(4)
Copper	mg/kg	7.9E+01	(c)	4.1E+02		mg/kg	1.5E+02	95% Adjusted Gamma UCL	(4)
Iron	mg/kg	1.7E+04	(c)	6.4E+04		mg/kg	2.4E+04	95% Adjusted Gamma UCL	(4)
Manganese	mg/kg	3.8E+02	(d)	7.3E+02	J	mg/kg	4.5E+02	95% Student's-t UCL	(4)
Thallium	mg/kg	2.4E-01	(b)	1.4E+00		mg/kg	3.2E-01	95% KM H-UCL	(4)
Vanadium	mg/kg	2.1E+01	(b)	7.2E+01		mg/kg	3.8E+01	95% Chebyshev (Mean, Sd) UCL	(4)

Table 44

Exposure Point Concentration (EPC) Summary for Chemicals of Potential Concern in EU11 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU11 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Surface Soil

Chemicals of Potential Concern	Units	Mean (1)	Data Distribution (2)	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Medium EPC Value	Medium EPC Statistic (3)	Medium EPC Rationale
Polychlorinated Biphenyls									
Aroclor-1254 (PCB-1254)	µg/kg	1.1E+02	(d)	9.1E+02		µg/kg	2.2E+02	95% KM (t) UCL	(4)
Asbestos									
Chrysotile asbestos	%	--	--	2.0E+00		%	2.0E+00	Maximum Detected	(5)

Notes:

(1) The Kaplan-Meier estimation method for non-detects was used, as per USEPA (2013).
(2) Data Distribution (Note: data distribution calculated by ProUCL are based on detected values only:
(a) Data set is neither normally, gamma or lognormally distributed.
(b) Data set is lognormally distributed.
(c) Data set is gamma distributed.
(d) Data set is normally distributed.
(3) Statistics (Note: 95% UCL values are calculated using ProUCL software, Version 5.1.
95% Student's-t UCL = UCL of the mean based upon the student's-t statistic
95% KM (t) UCL = UCL based upon Kaplan-Meier Estimates for non-detects using Student's t-Distribution Critical Value
95% KM Chebyshev UCL = UCL based upon Kaplan-Meier Estimates for non-detects using the Chebyshev Inequality
95% Chebyshev (Mean, Sd) UCL = UCL of mean and standard deviation using the Chebyshev Inequality
95% Adjusted Gamma UCL = gamma adjusted UCL when n<50
95% KM Adjusted Gamma UCL = gamma adjusted UCL based upon Kaplan-Meier Estimates when n<50
99% KM Chebyshev UCL = UCL based upon Kaplan-Meier Estimates for non-detects using the Chebyshev Inequality
95% KM H-UCL = UCL based upon Kaplan-Meier Estimates for non-detects using Land's H-statistic
(4) ProUCL recommended value is used as the EPC value. In the event of more than one recommended EPC value, the higher EPC value is used.
(5) Due to the limited dataset an EPC could not be calculated, therefore the maximum detected is the EPC for the subsurface soil exposure.

Table 45

Exposure Point Concentration (EPC) Summary for Chemicals of Potential Concern in EU12 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU12 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

Chemicals of Potential Concern	Units	Mean (1)	Data Distribution (2)	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Medium EPC Value	Medium EPC Statistic (3)	Medium EPC Rationale
Semi-Volatiles Organic Compounds									
Benzo(a)pyrene	µg/kg	1.5E+02	(c)	7.5E+02		µg/kg	9.1E+02	95% KM Bootstrap t UCL	(4)
Carbazole	µg/kg	3.7E+01	(d)	1.4E+02	J	µg/kg	5.8E+01	95% KM (t) UCL	(4)
Dibenz(a,h)anthracene	µg/kg	3.3E+01	(d)	1.3E+02		µg/kg	6.3E+01	95% KM (t) UCL	(4)
Metals									
Aluminum	mg/kg	3.6E+03	(d)	7.9E+03		mg/kg	5.2E+03	95% Student's-t UCL	(4)
Arsenic	mg/kg	8.3E+00	(c)	4.6E+01	J	mg/kg	1.9E+01	95% Adjusted Gamma UCL	(4)
Cobalt	mg/kg	4.4E+00	(d)	7.1E+00		mg/kg	5.7E+00	95% Student's-t UCL	(4)
Iron	mg/kg	8.4E+03	(d)	1.2E+04		mg/kg	1.0E+04	95% Student's-t UCL	(4)
Manganese	mg/kg	2.2E+02	(d)	4.1E+02		mg/kg	3.3E+02	95% Student's-t UCL	(4)
Thallium	mg/kg	1.7E-01	(d)	7.0E-01		mg/kg	2.7E-01	95% KM (t) UCL	(4)
Vanadium	mg/kg	1.5E+01	(d)	4.9E+01	J	mg/kg	2.0E+01	95% Student's-t UCL	(4)
Polychlorinated Biphenyls									
Aroclor-1254 (PCB-1254)	µg/kg	--	--	2.1E+02		µg/kg	2.1E+02	Maximum Detected	(5)

Notes:

J - Estimated concentration.
(1) The Kaplan-Meier estimation method for non-detects was used, as per USEPA (2013).
(2) Data Distribution (Note: data distribution calculated by ProUCL are based on detected values only:
(a) Data set is neither normally, gamma or lognormally distributed.
(b) Data set is lognormally distributed.
(c) Data set is gamma distributed.
(d) Data set is normally distributed.
(3) Statistics (Note: 95% UCL values are calculated using ProUCL software, Version 5.1.
95% Student's-t UCL = UCL of the mean based upon the student's-t statistic
95% KM (t) UCL = UCL based upon Kaplan-Meier Estimates for non-detects using Student's t-Distribution Critical Value
95% Adjusted Gamma UCL = gamma adjusted UCL when n<50
95% KM Bootstrap t UCL = UCL based upon Kaplan-Meier Estimates for non-detects using Bootstrap method
(4) ProUCL recommended value is used as the EPC value. In the event of more than one recommended EPC value, the higher EPC value is used.
(5) Due to the limited dataset an EPC could not be calculated, therefore the maximum detected is the EPC for the surface soil exposure.

Table 46

Exposure Point Concentration (EPC) Summary for Chemicals of Potential Concern in EU12 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU12 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

Chemicals of Potential Concern	Units	Mean (1)	Data Distribution (2)	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Medium EPC Value	Medium EPC Statistic (3)	Medium EPC Rationale
Semi-Volatiles Organic Compounds									
Benzo(a)pyrene	µg/kg	3.2E+01	(c)	7.7E+02		µg/kg	6.6E+02	95% KM Bootstrap t UCL	(4)
Carbazole	µg/kg	3.2E+01	(d)	1.4E+02	J	µg/kg	4.5E+01	95% KM (t) UCL	(4)
Dibenz(a,h)anthracene	µg/kg	2.2E+01	(d)	1.3E+02		µg/kg	4.0E+01	95% KM (t) UCL	(4)
Metals									
Aluminum	mg/kg	4.3E+03	(d)	1.0E+04	J	mg/kg	5.6E+03	95% Student's-t UCL	(4)
Arsenic	mg/kg	1.5E+01	(c)	5.1E+01		mg/kg	2.7E+01	95% Adjusted Gamma UCL	(4)
Chromium VI (hexavalent)	mg/kg	6.2E-01	(d)	2.4E+00		mg/kg	1.0E+00	95% KM (t) UCL	(4)
Cobalt	mg/kg	4.7E+00	(d)	7.1E+00		mg/kg	5.6E+00	95% Student's-t UCL	(4)
Iron	mg/kg	1.1E+04	(c)	3.8E+04		mg/kg	1.7E+04	95% Adjusted Gamma UCL	(4)
Manganese	mg/kg	4.1E+02	(c)	2.6E+03		mg/kg	9.5E+02	95% Adjusted Gamma UCL	(4)
Thallium	mg/kg	2.5E-01	(d)	1.1E+00		mg/kg	3.9E-01	95% KM (t) UCL	(4)
Vanadium	mg/kg	2.1E+01	(d)	4.9E+01	J	mg/kg	2.7E+01	95% Student's-t UCL	(4)
Polychlorinated Biphenyls									
Aroclor-1254 (PCB-1254)	µg/kg	4.7E+01	(a)	2.1E+02		µg/kg	8.4E+01	95% KM (t) UCL	(5)

Notes:

J - Estimated concentration.
(1) The Kaplan-Meier estimation method for non-detects was used, as per USEPA (2013).
(2) Data Distribution (Note: data distribution calculated by ProUCL are based on detected values only:
(a) Data set is neither normally, gamma or lognormally distributed.
(b) Data set is lognormally distributed.
(c) Data set is gamma distributed.
(d) Data set is normally distributed.
(3) Statistics (Note: 95% UCL values are calculated using ProUCL software, Version 5.1.
95% Student's-t UCL = UCL of the mean based upon the student's-t statistic
95% KM (t) UCL = UCL based upon Kaplan-Meier Estimates for non-detects using Student's t-Distribution Critical Value
95% Adjusted Gamma UCL = gamma adjusted UCL when n<50
95% KM Bootstrap t UCL = UCL based upon Kaplan-Meier Estimates for non-detects using Bootstrap method
(4) ProUCL recommended value is used as the EPC value. In the event of more than one recommended EPC value, the higher EPC value is used.
(5) Due to the limited dataset an EPC could not be calculated, therefore the maximum detected is the EPC for the surface soil exposure.

Table 47

Exposure Point Concentration (EPC) Summary for Chemicals of Potential Concern in EU13 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU13 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

Chemicals of Potential Concern	Units	Mean (1)	Data Distribution (2)	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Medium EPC Value	Medium EPC Statistic (3)	Medium EPC Rationale
Volatile Organic Compounds									
1,1-Dichloroethane	µg/kg	--	--	2.5E+01	J	µg/kg	2.5E+01	Maximum Detected	(5)
Ethylbenzene	µg/kg	7.4E+03	(d)	5.9E+04		µg/kg	1.8E+04	95% KM (t) UCL	(4)
Trichloroethene	µg/kg	1.6E+03	(c)	1.3E+04	J	µg/kg	5.9E+03	95% Adjusted Gamma UCL	(4)
Xylenes (total)	µg/kg	1.4E+04	(c)	1.4E+05		µg/kg	7.1E+04	95% KM Adjusted Gamma UCL	(4)
Semi-Volatiles Organic Compounds									
Benzo(a)anthracene	µg/kg	6.5E+02	(c)	5.2E+03		µg/kg	4.7E+03	95% KM Bootstrap t UCL	(4)
Benzo(a)pyrene	µg/kg	5.9E+02	(c)	5.2E+03		µg/kg	3.1E+03	95% KM Adjusted Gamma UCL	(4)
Benzo(b)fluoranthene	µg/kg	1.0E+03	(c)	8.0E+03		µg/kg	8.1E+03	95% KM Bootstrap t UCL	(4)
Carbazole	µg/kg	1.3E+02	(d)	1.1E+03		µg/kg	3.1E+02	95% KM (t) UCL	(4)
Dibenz(a,h)anthracene	µg/kg	1.1E+02	(d)	9.2E+02		µg/kg	2.5E+02	95% KM (t) UCL	(4)
Indeno(1,2,3-cd)pyrene	µg/kg	3.6E+02	(c)	3.1E+03		µg/kg	3.2E+03	95% KM Bootstrap t UCL	(4)
Naphthalene	µg/kg	1.5E+03	(b)	1.1E+04		µg/kg	1.0E+04	99% KM Chebyshev UCL	(4)
Metals									
Aluminum	mg/kg	6.5E+03	(d)	1.4E+04		mg/kg	8.1E+03	95% Student's-t UCL	(4)
Antimony	mg/kg	5.9E+01	(b)	1.4E+03	J	mg/kg	6.0E+02	99% KM Chebyshev UCL	(4)
Arsenic	mg/kg	2.7E+01	(c)	7.0E+01		mg/kg	4.8E+01	95% Adjusted Gamma UCL	(4)
Barium	mg/kg	5.3E+02	(d)	1.8E+03		mg/kg	8.0E+02	95% Student's-t UCL	(4)
Cadmium	mg/kg	4.3E+00	(b)	3.0E+01		mg/kg	2.8E+01	99% KM Chebyshev UCL	(4)
Chromium VI (hexavalent)	mg/kg	6.4E-01	(d)	2.6E+00		mg/kg	1.0E+00	95% KM (t) UCL	(4)
Cobalt	mg/kg	9.0E+00	(d)	2.4E+01		mg/kg	1.2E+01	95% Student's-t UCL	(4)
Copper	mg/kg	6.4E+02	(c)	3.3E+03		mg/kg	1.7E+03	95% Adjusted Gamma UCL	(4)
Cyanide (total)	mg/kg	1.0E+00	(d)	4.1E+00		mg/kg	1.7E+00	95% KM (t) UCL	(4)
Iron	mg/kg	3.5E+04	(c)	1.8E+05		mg/kg	6.8E+04	95% Adjusted Gamma UCL	(4)
Lead	mg/kg	1.6E+03	(c)	2.6E+04	J	mg/kg	5.5E+03	95% Adjusted Gamma UCL	(4)
Lead - coarse fraction	mg/kg	--	--	6.3E+03		mg/kg	6.3E+03	Maximum Detected	(5)
Lead - fine fraction	mg/kg	--	--	5.3E+03		mg/kg	5.3E+03	Maximum Detected	(5)
Lead - total (calculated by fine/coarse fraction)	mg/kg	--	--	1.1E+03		mg/kg	1.1E+03	Maximum Detected	(5)
Manganese	mg/kg	5.0E+02	(c)	2.3E+03		mg/kg	9.8E+02	95% Adjusted Gamma UCL	(4)
Mercury	mg/kg	4.2E-01	(c)	3.2E+00		mg/kg	1.1E+00	95% Adjusted Gamma UCL	(4)
Nickel	mg/kg	5.6E+01	(b)	3.1E+02		mg/kg	1.6E+02	95% Chebyshev (Mean, Sd) UCL	(4)
Thallium	mg/kg	5.1E-01	(b)	2.0E+00		mg/kg	1.1E+00	95% KM H-UCL	(4)
Vanadium	mg/kg	3.3E+01	(c)	1.3E+02		mg/kg	5.7E+01	95% Adjusted Gamma UCL	(4)
Zinc	mg/kg	7.6E+02		3.4E+03	J	mg/kg	1.9E+03	95% Adjusted Gamma UCL	(4)

Table 47

Exposure Point Concentration (EPC) Summary for Chemicals of Potential Concern in EU13 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU13 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

Chemicals of Potential Concern	Units	Mean (1)	Data Distribution (2)	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Medium EPC Value	Medium EPC Statistic (3)	Medium EPC Rationale
Polychlorinated Biphenyls									
Aroclor-1242 (PCB-1242)	µg/kg	--	--	3.8E+02		µg/kg	3.8E+02	Maximum Detected	(5)
Aroclor-1254 (PCB-1254)	µg/kg	1.1E+04	(b)	1.4E+05		µg/kg	1.0E+05	99% KM Chebyshev UCL	(4)
Pesticides									
Heptachlor epoxide	µg/kg	--	--	7.5E+01	NJ	µg/kg	7.5E+01	Maximum Detected	(5)

Notes:

J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
(1) The Kaplan-Meier estimation method for non-detects was used, as per USEPA (2013).
(2) Data Distribution (Note: data distribution calculated by ProUCL are based on detected values only:
(a) Data set is neither normally, gamma or lognormally distributed.
(b) Data set is lognormally distributed.
(c) Data set is gamma distributed.
(d) Data set is normally distributed.
(3) Statistics (Note: 95% UCL values are calculated using ProUCL software, Version 5.1.
95% Student's-t UCL = UCL of the mean based upon the student's-t statistic
95% KM (t) UCL = UCL based upon Kaplan-Meier Estimates for non-detects using Student's t-Distribution Critical Value
95% Adjusted Gamma UCL = gamma adjusted UCL when n<50
95% KM Adjusted Gamma UCL = gamma adjusted UCL based upon Kaplan-Meier Estimates when n<50
95% KM Bootstrap t UCL = UCL based upon Kaplan-Meier Estimates for non-detects using Bootstrap method
95% KM H-UCL = UCL based upon Kaplan-Meier Estimates for non-detects using Land's H-statistic
99% KM Chebyshev UCL = UCL based upon Kaplan-Meier Estimates for non-detects using the Chebyshev Inequality
95% Chebyshev (Mean, Sd) UCL = UCL of mean and standard deviation using the Chebyshev Inequality
(4) ProUCL recommended value is used as the EPC value. In the event of more than one recommended EPC value, the higher EPC value is used.
(5) Due to the limited dataset an EPC could not be calculated, therefore the maximum detected is the EPC for the surface soil exposure.

Table 48

Exposure Point Concentration (EPC) Summary for Chemicals of Potential Concern in EU13 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU13 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

Chemicals of Potential Concern	Units	Mean (1)	Data Distribution (2)	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Medium EPC Value	Medium EPC Statistic (3)	Medium EPC Rationale
Volatile Organic Compounds									
1,1-Dichloroethane	µg/kg	--	--	2.5E+01	J	µg/kg	2.5E+01	Maximum Detected	(5)
Trichloroethene	µg/kg	2.3E+03	(c)	1.3E+04	J	µg/kg	2.5E+04	95% KM Bootstrap t UCL	(4)
Semi-Volatiles Organic Compounds									
Benzo(a)anthracene	µg/kg	9.6E+02	(c)	5.2E+03		µg/kg	7.8E+03	95% KM Bootstrap t UCL	(4)
Benzo(a)pyrene	µg/kg	8.4E+02	(c)	5.2E+03		µg/kg	1.7E+04	95% KM Bootstrap t UCL	(4)
Benzo(b)fluoranthene	µg/kg	1.5E+03	(c)	8.0E+03		µg/kg	1.0E+04	95% Adjusted Gamma UCL	(4)
Carbazole	µg/kg	2.0E+02	(d)	1.1E+03		µg/kg	5.2E+02	95% KM (t) UCL	(4)
Dibenz(a,h)anthracene	µg/kg	1.7E+02	(d)	9.2E+02		µg/kg	4.1E+02	95% KM (t) UCL	(4)
Indeno(1,2,3-cd)pyrene	µg/kg	5.3E+02	(d)	3.1E+03		µg/kg	1.3E+03	95% KM (t) UCL	(4)
Naphthalene	µg/kg	6.8E+02	(b)	4.2E+03		µg/kg	2.9E+03	95% KM (Chebyshev) UCL	(4)
Metals									
Aluminum	mg/kg	6.2E+03	(d)	8.4E+03		mg/kg	7.7E+03	95% Student's-t UCL	(4)
Antimony	mg/kg	9.4E+01	(c)	1.4E+03	J	mg/kg	1.3E+03	95% KM Adjusted Gamma UCL	(4)
Arsenic	mg/kg	3.3E+01	(d)	7.0E+01		mg/kg	5.1E+01	95% Student's-t UCL	(4)
Barium	mg/kg	5.7E+02	(d)	1.8E+03		mg/kg	9.9E+02	95% Student's-t UCL	(4)
Cadmium	mg/kg	5.9E+00	(c)	3.0E+01		mg/kg	8.8E+01	95% KM Bootstrap t UCL	(4)
Chromium VI (hexavalent)	mg/kg	5.6E-01	(d)	1.4E+00		mg/kg	9.3E-01	95% KM (t) UCL	(4)
Cobalt	mg/kg	1.1E+01	(d)	2.4E+01		mg/kg	1.6E+01	95% Student's-t UCL	(4)
Copper	mg/kg	7.9E+02	(c)	3.3E+03		mg/kg	4.2E+03	95% Adjusted Gamma UCL	(4)
Cyanide (total)	mg/kg	1.2E+00	(d)	4.1E+00		mg/kg	2.1E+00	95% KM (t) UCL	(4)
Iron	mg/kg	4.1E+04	(c)	1.8E+05		mg/kg	1.5E+05	95% Adjusted Gamma UCL	(4)
Lead	mg/kg	2.4E+03	(c)	2.6E+04	J	mg/kg	1.9E+04	95% Adjusted Gamma UCL	(4)
Lead - coarse fraction	mg/kg	--	--	6.3E+03		mg/kg	6.3E+03	Maximum Detected	(5)
Lead - fine fraction	mg/kg	--	--	5.3E+03		mg/kg	5.3E+03	Maximum Detected	(5)
Lead - total (calculated by fine/coarse fraction)	mg/kg	--	--	1.1E+03		mg/kg	1.1E+03	Maximum Detected	(5)
Manganese	mg/kg	5.3E+02	(c)	2.3E+03		mg/kg	2.0E+03	95% Adjusted Gamma UCL	(4)
Mercury	mg/kg	5.5E-01	(c)	3.2E+00		mg/kg	2.8E+00	95% Adjusted Gamma UCL	(4)
Nickel	mg/kg	7.7E+01	(c)	3.1E+02		mg/kg	2.7E+02	95% Adjusted Gamma UCL	(4)
Thallium	mg/kg	6.0E-01	(d)	2.0E+00		mg/kg	1.0E+00	95% KM (t) UCL	(4)
Vanadium	mg/kg	4.2E+01	(c)	1.3E+02		mg/kg	1.0E+02	95% Adjusted Gamma UCL	(4)
Zinc	mg/kg	1.0E+03	(a)	3.4E+03	J	mg/kg	6.1E+03	99% Chebyshev (Mean, Sd) UCL	(4)

Table 48

Exposure Point Concentration (EPC) Summary for Chemicals of Potential Concern in EU13 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU13 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

Chemicals of Potential Concern	Units	Mean (1)	Data Distribution (2)	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Medium EPC Value	Medium EPC Statistic (3)	Medium EPC Rationale
Polychlorinated Biphenyls									
Aroclor-1254 (PCB-1254)	µg/kg	1.9E+04	(c)	1.4E+05		µg/kg	3.9E+06	95% KM Bootstrap t UCL	(4)
Pesticides									
Heptachlor epoxide	µg/kg	--	--	7.5E+01	NJ	µg/kg	7.5E+01	Maximum Detected	(5)

Notes:

J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
(1) The Kaplan-Meier estimation method for non-detects was used, as per USEPA (2013).
(2) Data Distribution (Note: data distribution calculated by ProUCL are based on detected values only:
(a) Data set is neither normally, gamma or lognormally distributed.
(b) Data set is lognormally distributed.
(c) Data set is gamma distributed.
(d) Data set is normally distributed.
(3) Statistics (Note: 95% UCL values are calculated using ProUCL software, Version 5.1.
95% Student's-t UCL = UCL of the mean based upon the student's-t statistic
95% KM (t) UCL = UCL based upon Kaplan-Meier Estimates for non-detects using Student's t-Distribution Critical Value
95% Adjusted Gamma UCL = gamma adjusted UCL when n<50
95% KM Adjusted Gamma UCL = gamma adjusted UCL based upon Kaplan-Meier Estimates when n<50
95% KM Bootstrap t UCL = UCL based upon Kaplan-Meier Estimates for non-detects using Bootstrap method
95% KM Chebyshev UCL = UCL based upon Kaplan-Meier Estimates for non-detects using the Chebyshev Inequality
99% Chebyshev (Mean, Sd) UCL = UCL of mean and standard deviation using the Chebyshev Inequality
(4) ProUCL recommended value is used as the EPC value. In the event of more than one recommended EPC value, the higher EPC value is used.
(5) Due to the limited dataset an EPC could not be calculated, therefore the maximum detected is the EPC for the surface soil exposure.

Table 49

Exposure Point Concentration (EPC) Summary for Chemicals of Potential Concern in EU14 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU14 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

Chemicals of Potential Concern	Units	Mean (1)	Data Distribution (2)	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Medium EPC Value	Medium EPC Statistic (3)	Medium EPC Rationale
Volatile Organic Compounds									
1,1-Dichloroethane	µg/kg	2.5E+01	(d)	1.1E+02	J	µg/kg	6.3E+01	95% KM (t) UCL	(4)
Trichloroethene	µg/kg	1.1E+03	(c)	6.4E+03		µg/kg	1.0E+04	95% Adjusted Gamma UCL	(4)
Vinyl chloride	µg/kg	6.6E+01	(d)	4.1E+02	J	µg/kg	1.9E+02	95% KM (t) UCL	(4)
Semi-Volatiles Organic Compounds									
Benzo(a)anthracene	µg/kg	6.1E+02	(d)	1.7E+03		µg/kg	1.0E+03	95% Student's-t UCL	(4)
Benzo(a)pyrene	µg/kg	6.5E+02	(d)	2.0E+03		µg/kg	1.2E+03	95% Student's-t UCL	(4)
Benzo(b)fluoranthene	µg/kg	9.6E+02	(d)	3.0E+03		µg/kg	1.7E+03	95% Student's-t UCL	(4)
Carbazole	µg/kg	6.9E+01	(d)	1.2E+02		µg/kg	9.6E+01	95% KM (t) UCL	(4)
Dibenz(a,h)anthracene	µg/kg	1.5E+02	(d)	5.1E+02		µg/kg	3.0E+02	95% KM (t) UCL	(4)
Indeno(1,2,3-cd)pyrene	µg/kg	5.2E+02	(d)	1.7E+03		µg/kg	9.5E+02	95% Student's-t UCL	(4)
Metals									
Aluminum	mg/kg	6.6E+03	(d)	9.2E+03		mg/kg	8.0E+03	95% Student's-t UCL	(4)
Antimony	mg/kg	6.9E+00	(d)	1.3E+01		mg/kg	1.0E+01	95% Student's-t UCL	(4)
Arsenic	mg/kg	1.8E+01	(d)	3.3E+01		mg/kg	2.5E+01	95% Student's-t UCL	(4)
Barium	mg/kg	1.1E+03	(c)	3.1E+03		mg/kg	4.7E+03	95% Adjusted Gamma UCL	(4)
Cadmium	mg/kg	5.7E+00	(d)	1.1E+01		mg/kg	8.7E+00	95% Student's-t UCL	(4)
Chromium VI (hexavalent)	mg/kg	6.5E-01	(d)	1.2E+00		mg/kg	9.6E-01	95% KM (t) UCL	(4)
Cobalt	mg/kg	1.1E+01	(d)	1.7E+01		mg/kg	1.4E+01	95% Student's-t UCL	(4)
Copper	mg/kg	1.1E+03	(d)	2.4E+03		mg/kg	1.8E+03	95% Student's-t UCL	(4)
Cyanide (total)	mg/kg	2.5E+00	(d)	1.3E+01		mg/kg	6.2E+00	95% KM (t) UCL	(4)
Iron	mg/kg	4.8E+04	(d)	7.1E+04		mg/kg	6.4E+04	95% Student's-t UCL	(4)
Lead	mg/kg	1.5E+03	(d)	4.2E+03		mg/kg	2.7E+03	95% Student's-t UCL	(4)
Lead - coarse fraction	mg/kg	--	--	4.7E+04		mg/kg	4.7E+04	Maximum Detected	(5)
Lead - fine fraction	mg/kg	--	--	2.8E+04		mg/kg	2.8E+04	Maximum Detected	(5)
Lead - total (calculated by fine/coarse fraction)	mg/kg	--	--	4.3E+04		mg/kg	4.3E+04	Maximum Detected	(5)
Manganese	mg/kg	5.0E+02	(d)	8.8E+02		mg/kg	6.9E+02	95% Student's-t UCL	(4)
Thallium	mg/kg	2.5E-01	(d)	4.9E-01		mg/kg	3.4E-01	95% Student's-t UCL	(4)
Vanadium	mg/kg	2.7E+01	(d)	4.6E+01		mg/kg	3.5E+01	95% Student's-t UCL	(4)
Zinc	mg/kg	1.2E+03	(d)	3.0E+03		mg/kg	2.1E+03	95% Student's-t UCL	(4)

Table 49

Exposure Point Concentration (EPC) Summary for Chemicals of Potential Concern in EU14 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU14 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

Chemicals of Potential Concern	Units	Mean (1)	Data Distribution (2)	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Medium EPC Value	Medium EPC Statistic (3)	Medium EPC Rationale
Polychlorinated Biphenyls									
Aroclor-1242 (PCB-1242)	µg/kg	--	--	3.7E+02		µg/kg	3.7E+02	Maximum Detected	(5)
Aroclor-1254 (PCB-1254)	µg/kg	2.4E+02	(d)	6.2E+02		µg/kg	4.2E+02	95% KM (t) UCL	(4)
Aroclor-1260 (PCB-1260)	µg/kg	2.1E+03	(a)	1.4E+04		µg/kg	1.3E+04	95% KM Chebyshev UCL	(4)

Notes:

J - Estimated concentration.
(1) The Kaplan-Meier estimation method for non-detects was used, as per USEPA (2013).
(2) Data Distribution (Note: data distribution calculated by ProUCL are based on detected values only:
(a) Data set is neither normally, gamma or lognormally distributed.
(b) Data set is lognormally distributed.
(c) Data set is gamma distributed.
(d) Data set is normally distributed.
(3) Statistics (Note: 95% UCL values are calculated using ProUCL software, Version 5.1.
95% Student's-t UCL = UCL of the mean based upon the student's-t statistic
95% KM (t) UCL = UCL based upon Kaplan-Meier Estimates for non-detects using Student's t-Distribution Critical Value
95% Adjusted Gamma UCL = gamma adjusted UCL when n<50
95% KM Chebyshev UCL = UCL based upon Kaplan-Meier Estimates for non-detects using the Chebyshev Inequality
(4) ProUCL recommended value is used as the EPC value. In the event of more than one recommended EPC value, the higher EPC value is used.
(5) Due to the limited dataset an EPC could not be calculated, therefore the maximum detected is the EPC for the surface soil exposure.

Table 50

Exposure Point Concentration (EPC) Summary for Chemicals of Potential Concern in EU14 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU14 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

Chemicals of Potential Concern	Units	Mean (1)	Data Distribution (2)	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Medium EPC Value	Medium EPC Statistic (3)	Medium EPC Rationale
Volatile Organic Compounds									
1,1-Dichloroethane	µg/kg	3.3E+01	(d)	2.4E+02	J	µg/kg	6.5E+01	95% KM (t) UCL	(4)
Ethylbenzene	µg/kg	1.7E+03	(d)	1.5E+04		µg/kg	3.7E+03	95% KM (t) UCL	(4)
Trichloroethene	µg/kg	6.2E+02	(c)	6.4E+03		µg/kg	3.0E+03	95% KM Adjusted Gamma UCL	(4)
Vinyl chloride	µg/kg	6.1E+01	(d)	4.1E+02	J	µg/kg	1.2E+02	95% KM (t) UCL	(4)
Semi-Volatiles Organic Compounds									
Benzo(a)anthracene	µg/kg	3.5E+02	(c)	1.7E+03		µg/kg	9.4E+02	95% KM Adjusted Gamma UCL	(4)
Benzo(a)pyrene	µg/kg	3.7E+02	(c)	2.0E+03		µg/kg	1.1E+03	95% KM Adjusted Gamma UCL	(4)
Benzo(b)fluoranthene	µg/kg	5.5E+02	(c)	3.0E+03		µg/kg	1.6E+03	95% KM Adjusted Gamma UCL	(4)
Carbazole	µg/kg	5.7E+01	(d)	1.2E+02		µg/kg	7.9E+01	95% KM (t) UCL	(4)
Dibenz(a,h)anthracene	µg/kg	8.7E+01	(d)	5.1E+02		µg/kg	1.7E+02	95% KM (t) UCL	(4)
Indeno(1,2,3-cd)pyrene	µg/kg	3.0E+02	(d)	1.7E+03		µg/kg	5.5E+02	95% KM (t) UCL	(4)
Metals									
Aluminum	mg/kg	6.1E+03	(d)	9.2E+03		mg/kg	7.3E+03	95% Student's-t UCL	(4)
Antimony	mg/kg	4.9E+00	(a)	1.3E+01		mg/kg	1.0E+01	95% KM Chebyshev UCL	(4)
Arsenic	mg/kg	1.7E+01	(d)	3.5E+01		mg/kg	2.2E+01	95% Student's-t UCL	(4)
Barium	mg/kg	7.2E+02	(c)	3.1E+03		mg/kg	1.8E+03	95% Adjusted Gamma UCL	(4)
Cadmium	mg/kg	4.8E+00	(d)	1.3E+01		mg/kg	7.0E+00	95% Student's-t UCL	(4)
Chromium VI (hexavalent)	mg/kg	1.9E+00	(b)	8.6E+00		mg/kg	4.8E+00	95% KM Chebyshev UCL	(4)
Cobalt	mg/kg	9.3E+00	(d)	1.7E+01		mg/kg	1.2E+01	95% Student's-t UCL	(4)
Copper	mg/kg	6.6E+02	(c)	2.4E+03		mg/kg	1.7E+03	95% Adjusted Gamma UCL	(4)
Cyanide (total)	mg/kg	1.4E+00	(c)	1.3E+01		mg/kg	1.1E+01	95% KM Bootstrap t UCL	(4)
Iron	mg/kg	3.3E+04	(d)	7.1E+04		mg/kg	4.5E+04	95% Student's-t UCL	(4)
Lead	mg/kg	9.4E+02	(c)	4.2E+03		mg/kg	2.8E+03	95% Adjusted Gamma UCL	(4)
Lead - coarse fraction	mg/kg	--	--	4.7E+04		mg/kg	4.7E+04	Maximum Detected	(5)
Lead - fine fraction	mg/kg	--	--	2.8E+04		mg/kg	2.8E+04	Maximum Detected	(5)
Lead - total (calculated by fine/coarse fraction)	mg/kg	--	--	4.3E+04		mg/kg	4.3E+04	Maximum Detected	(5)
Manganese	mg/kg	3.7E+02	(c)	8.8E+02		mg/kg	5.4E+02	95% Adjusted Gamma UCL	(4)
Thallium	mg/kg	3.0E-01	(c)	9.8E-01		mg/kg	5.2E-01	95% KM Adjusted Gamma UCL	(4)
Vanadium	mg/kg	2.6E+01	(d)	4.6E+01		mg/kg	3.2E+01	95% Student's-t UCL	(4)
Zinc	mg/kg	9.3E+02	(c)	3.0E+03		mg/kg	2.3E+03	95% Adjusted Gamma UCL	(4)

Table 50

Exposure Point Concentration (EPC) Summary for Chemicals of Potential Concern in EU14 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU14 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

Chemicals of Potential Concern	Units	Mean (1)	Data Distribution (2)	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Medium EPC Value	Medium EPC Statistic (3)	Medium EPC Rationale
Polychlorinated Biphenyls									
Aroclor-1242 (PCB-1242)	µg/kg	--	--	3.7E+02		µg/kg	3.7E+02	Maximum Detected	(5)
Aroclor-1248 (PCB-1248)	µg/kg	--	--	4.3E+02		µg/kg	4.3E+02	Maximum Detected	(5)
Aroclor-1254 (PCB-1254)	µg/kg	4.3E+02	(c)	3.7E+03		µg/kg	2.6E+03	95% KM Bootstrap t UCL	(4)
Aroclor-1260 (PCB-1260)	µg/kg	1.2E+03	(d)	1.4E+04		µg/kg	3.4E+03	95% KM (t) UCL	(4)
Pesticides									
Dieldrin	µg/kg	2.3E+01	(a)	2.7E+02	J	µg/kg	1.5E+02	95% KM Chebyshev UCL	(4)

Notes:

J - Estimated concentration.
(1) The Kaplan-Meier estimation method for non-detects was used, as per USEPA (2013).
(2) Data Distribution (Note: data distribution calculated by ProUCL are based on detected values only:
(a) Data set is neither normally, gamma or lognormally distributed.
(b) Data set is lognormally distributed.
(c) Data set is gamma distributed.
(d) Data set is normally distributed.
(3) Statistics (Note: 95% UCL values are calculated using ProUCL software, Version 5.1.
95% Student's-t UCL = UCL of the mean based upon the student's-t statistic
95% KM (t) UCL = UCL based upon Kaplan-Meier Estimates for non-detects using Student's t-Distribution Critical Value
95% Adjusted Gamma UCL = gamma adjusted UCL when n<50
95% KM Adjusted Gamma UCL = gamma adjusted UCL based upon Kaplan-Meier Estimates when n<50
95% KM Chebyshev UCL = UCL based upon Kaplan-Meier Estimates for non-detects using the Chebyshev Inequality
95% KM Bootstrap t UCL = UCL based upon Kaplan-Meier Estimates for non-detects using Bootstrap method
(4) ProUCL recommended value is used as the EPC value. In the event of more than one recommended EPC value, the higher EPC value is used.
(5) Due to the limited dataset an EPC could not be calculated, therefore the maximum detected is the EPC for the soil exposure.

Table 51

Exposure Point Concentration (EPC) Summary for Chemicals of Potential Concern in EU15 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU15 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

Chemicals of Potential Concern	Units	Mean (1)	Data Distribution (2)	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Medium EPC Value	Medium EPC Statistic (3)	Medium EPC Rationale
Volatile Organic Compounds									
1,1-Dichloroethane	µg/kg	--	--	5.3E+00	J	µg/kg	5.3E+00	Maximum Detected	(6)
Trichloroethene	µg/kg	1.1E+03	(c)	4.3E+03		µg/kg	3.4E+03	95% KM Adjusted Gamma UCL	(4)
Semi-Volatiles Organic Compounds									
Benzo(a)anthracene	µg/kg	8.6E+02	(b)	9.6E+03		µg/kg	5.2E+03	97.5% KM Chebyshev UCL	(5)
Benzo(a)pyrene	µg/kg	8.0E+02	(b)	8.5E+03		µg/kg	4.7E+03	97.5% KM Chebyshev UCL	(5)
Benzo(b)fluoranthene	µg/kg	1.1E+03	(b)	1.2E+04		µg/kg	6.6E+03	97.5% KM Chebyshev UCL	(4)
Carbazole	µg/kg	1.3E+02	(a)	1.5E+03		µg/kg	8.1E+02	97.5% KM Chebyshev UCL	(4)
Dibenz(a,h)anthracene	µg/kg	1.6E+02	(c)	1.6E+03		µg/kg	1.2E+03	95% KM Adjusted Gamma UCL	(4)
Indeno(1,2,3-cd)pyrene	µg/kg	5.4E+02	(c)	5.3E+03		µg/kg	4.0E+03	95% KM Adjusted Gamma UCL	(4)
Metals									
Aluminum	mg/kg	7.0E+03	(d)	1.3E+04		mg/kg	8.7E+03	95% Student's-t UCL	(4)
Antimony	mg/kg	3.5E+00	(d)	1.2E+01		mg/kg	5.6E+00	95% Student's-t UCL	(4)
Arsenic	mg/kg	1.4E+01	(d)	2.7E+01		mg/kg	1.8E+01	95% Student's-t UCL	(4)
Barium	mg/kg	7.1E+02	(d)	2.9E+03		mg/kg	1.2E+03	95% Student's-t UCL	(4)
Cadmium	mg/kg	3.5E+00	(c)	1.6E+01		mg/kg	9.2E+00	95% Adjusted Gamma UCL	(4)
Chromium VI (hexavalent)	mg/kg	1.3E+00	(a)	6.9E+00		mg/kg	3.7E+00	95% KM Chebyshev UCL	(4)
Cobalt	mg/kg	1.1E+01	(c)	2.9E+01		mg/kg	1.9E+01	95% Adjusted Gamma UCL	(4)
Copper	mg/kg	5.8E+02	(c)	2.9E+03		mg/kg	1.9E+03	95% Adjusted Gamma UCL	(4)
Cyanide (total)	mg/kg	5.0E+00	(d)	4.1E+01		mg/kg	1.4E+01	95% KM (t) UCL	(4)
Iron	mg/kg	3.7E+04	(c)	1.1E+05		mg/kg	7.3E+04	95% Adjusted Gamma UCL	(4)
Lead	mg/kg	6.0E+02	(d)	2.6E+03	J	mg/kg	1.0E+03	95% Student's-t UCL	(4)
Lead - coarse fraction	mg/kg	1.2E+03	(d)	2.0E+03		mg/kg	3.0E+03	95% Student's-t UCL	(4)
Lead - fine fraction	mg/kg	1.6E+03	(d)	2.7E+03		mg/kg	3.9E+03	95% Student's-t UCL	(4)
Lead - total (calculated by fine/coarse fraction)	mg/kg	1.3E+03	(d)	2.2E+03		mg/kg	3.2E+03	95% Student's-t UCL	(4)
Manganese	mg/kg	4.9E+02	(d)	1.1E+03		mg/kg	6.6E+02	95% Student's-t UCL	(4)
Mercury	mg/kg	5.1E-01	(c)	6.1E+00		mg/kg	2.5E+00	95% KM Adjusted Gamma UCL	(4)
Thallium	mg/kg	2.6E-01	(d)	6.5E-01		mg/kg	3.6E-01	95% Student's-t UCL	(4)
Vanadium	mg/kg	2.3E+01	(d)	5.0E+01		mg/kg	3.0E+01	95% Student's-t UCL	(4)
Zinc	mg/kg	1.2E+03	(c)	5.6E+03		mg/kg	3.4E+03	95% Adjusted Gamma UCL	(4)

Table 51

Exposure Point Concentration (EPC) Summary for Chemicals of Potential Concern in EU15 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU15 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

Chemicals of Potential Concern	Units	Mean (1)	Data Distribution (2)	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Medium EPC Value	Medium EPC Statistic (3)	Medium EPC Rationale
Polychlorinated Biphenyls									
Aroclor-1232 (PCB-1232)	µg/kg	--	--	1.1E+03		µg/kg	1.1E+03	Maximum Detected	(6)
Aroclor-1242 (PCB-1242)	µg/kg	--	--	1.1E+03		µg/kg	1.1E+03	Maximum Detected	(6)
Aroclor-1248 (PCB-1248)	µg/kg	--	--	1.9E+03	J	µg/kg	1.9E+03	Maximum Detected	(6)
Aroclor-1254 (PCB-1254)	µg/kg	2.6E+02	(d)	1.8E+03		µg/kg	6.1E+02	95% KM (t) UCL	(4)
Aroclor-1260 (PCB-1260)	µg/kg	1.2E+02	(d)	1.1E+03	J	µg/kg	2.7E+02	95% KM (t) UCL	(4)

Notes:

J - Estimated concentration.
(1) The Kaplan-Meier estimation method for non-detects was used, as per USEPA (2013).
(2) Data Distribution (Note: data distribution calculated by ProUCL are based on detected values only:
(a) Data set is neither normally, gamma or lognormally distributed.
(b) Data set is lognormally distributed.
(c) Data set is gamma distributed.
(d) Data set is normally distributed.
(3) Statistics (Note: 95% UCL values are calculated using ProUCL software, Version 5.1.
95% Student's-t UCL = UCL of the mean based upon the student's-t statistic
95% KM (t) UCL = UCL based upon Kaplan-Meier Estimates for non-detects using Student's t-Distribution Critical Value
95% Adjusted Gamma UCL = gamma adjusted UCL when n<50
95% KM Adjusted Gamma UCL = gamma adjusted UCL based upon Kaplan-Meier Estimates when n<50
95% KM Chebyshev UCL = UCL based upon Kaplan-Meier Estimates for non-detects using the Chebyshev Inequality
97.5% KM Chebyshev UCL = UCL based upon Kaplan-Meier Estimates for non-detects using the Chebyshev Inequality
(4) ProUCL recommended value is used as the EPC value. In the event of more than one recommended EPC value, the higher EPC value is used.
(5) Recommended UCL exceeds maximum observation, therefore the EPC is the lower suggested UCL.
(6) Due to the limited dataset an EPC could not be calculated, therefore the maximum detected is the EPC for the surface soil exposure.

Table 52

Exposure Point Concentration (EPC) Summary for Chemicals of Potential Concern in EU15 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU15 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

Chemicals of Potential Concern	Units	Mean (1)	Data Distribution (2)	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Medium EPC Value	Medium EPC Statistic (3)	Medium EPC Rationale
Volatile Organic Compounds									
1,1-Dichloroethane	µg/kg	--	--	5.3E+00	J	µg/kg	5.3E+00	Maximum Detected	(5)
Ethylbenzene	µg/kg	--	--	2.6E+05	J	µg/kg	2.6E+05	Maximum Detected	(5)
Trichloroethene	µg/kg	1.0E+03	(c)	5.2E+03		µg/kg	2.3E+03	95% KM Adjusted Gamma UCL	(4)
Xylenes (total)	µg/kg	1.0E+05	(b)	2.0E+06	J	µg/kg	1.1E+06	99% KM Chebyshev UCL	(4)
Semi-Volatiles Organic Compounds									
Benzo(a)anthracene	µg/kg	9.2E+02	(b)	9.6E+03		µg/kg	6.4E+03	99% KM Chebyshev UCL	(4)
Benzo(a)pyrene	µg/kg	8.5E+02	(c)	8.5E+03		µg/kg	3.3E+03	95% KM Adjusted Gamma UCL	(4)
Benzo(b)fluoranthene	µg/kg	1.2E+03	(b)	1.2E+04		µg/kg	8.0E+03	99% KM Chebyshev UCL	(4)
Carbazole	µg/kg	1.5E+02	(c)	1.5E+03		µg/kg	5.8E+02	95% KM Adjusted Gamma UCL	(4)
Dibenz(a,h)anthracene	µg/kg	1.5E+02	(c)	1.6E+03		µg/kg	6.4E+02	95% KM Adjusted Gamma UCL	(4)
Indeno(1,2,3-cd)pyrene	µg/kg	5.5E+02	(c)	5.3E+03		µg/kg	2.1E+03	95% KM Adjusted Gamma UCL	(4)
Metals									
Aluminum	mg/kg	8.6E+03	(d)	2.2E+04		mg/kg	1.1E+04	95% Student's-t UCL	(4)
Antimony	mg/kg	9.8E+00	(c)	7.0E+01	J	mg/kg	2.4E+01	95% Adjusted Gamma UCL	(4)
Arsenic	mg/kg	1.7E+01	(d)	5.4E+01		mg/kg	2.2E+01	95% Student's-t UCL	(4)
Barium	mg/kg	8.2E+02	(c)	3.5E+03		mg/kg	1.6E+03	95% Adjusted Gamma UCL	(4)
Cadmium	mg/kg	3.1E+00	(c)	1.6E+01		mg/kg	6.0E+00	95% Adjusted Gamma UCL	(4)
Chromium VI (hexavalent)	mg/kg	1.2E+01	(a)	1.5E+02		mg/kg	7.6E+01	97.5% KM Chebyshev UCL	(4)
Cobalt	mg/kg	3.2E+01	(b)	3.2E+02		mg/kg	1.2E+02	95% Chebyshev (Mean, Sd) UCL	(4)
Copper	mg/kg	5.2E+02	(c)	2.9E+03		mg/kg	1.2E+03	95% Adjusted Gamma UCL	(4)
Cyanide (total)	mg/kg	3.4E+00	(d)	4.1E+01		mg/kg	8.7E+00	95% KM (t) UCL	(4)
Iron	mg/kg	3.2E+04	(a)	1.1E+05		mg/kg	6.6E+04	95% Chebyshev (Mean, Sd) UCL	(4)
Lead	mg/kg	1.7E+03	(c)	1.8E+04		mg/kg	5.2E+03	95% Adjusted Gamma UCL	(4)
Lead - coarse fraction	mg/kg	1.2E+03	(d)	2.0E+03		mg/kg	3.0E+03	95% Student's-t UCL	(4)
Lead - fine fraction	mg/kg	1.6E+03	(d)	2.7E+03		mg/kg	3.9E+03	95% Student's-t UCL	(4)
Lead - total (calculated by fine/coarse fraction)	mg/kg	1.3E+03	(d)	2.2E+03		mg/kg	3.2E+03	95% Student's-t UCL	(4)
Manganese	mg/kg	4.5E+02	(d)	1.1E+03		mg/kg	5.7E+02	95% Student's-t UCL	(4)
Mercury	mg/kg	4.4E-01	(c)	6.1E+00		mg/kg	1.4E+00	95% KM Adjusted Gamma UCL	(4)
Thallium	mg/kg	3.4E-01	(c)	1.4E+00		mg/kg	5.7E-01	95% KM Adjusted Gamma UCL	(4)
Vanadium	mg/kg	2.8E+01	(d)	7.3E+01		mg/kg	3.5E+01	95% Student's-t UCL	(4)
Zinc	mg/kg	2.3E+03	(b)	2.0E+04		mg/kg	1.5E+04	99% Chebyshev (Mean, Sd) UCL	(4)

Table 52

Exposure Point Concentration (EPC) Summary for Chemicals of Potential Concern in EU15 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU15 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

Chemicals of Potential Concern	Units	Mean (1)	Data Distribution (2)	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Medium EPC Value	Medium EPC Statistic (3)	Medium EPC Rationale
Polychlorinated Biphenyls									
Aroclor-1232 (PCB-1232)	µg/kg	--	--	1.1E+03		µg/kg	1.1E+03	Maximum Detected	(5)
Aroclor-1242 (PCB-1242)	µg/kg	1.1E+02	(a)	1.1E+03		µg/kg	5.4E+02	95% KM Chebyshev UCL	(4)
Aroclor-1248 (PCB-1248)	µg/kg	7.0E+02	(a)	8.6E+03		µg/kg	4.1E+03	95% KM Chebyshev UCL	(4)
Aroclor-1254 (PCB-1254)	µg/kg	2.2E+02	(d)	1.8E+03		µg/kg	4.5E+02	95% KM (t) UCL	(4)
Aroclor-1260 (PCB-1260)	µg/kg	1.2E+02	(d)	1.1E+03	J	µg/kg	2.3E+02	95% KM (t) UCL	(4)
Dioxins/Furans									
Total TEQ (DL @ 0)	pg/g	--	--	7.5E+01		pg/g	7.5E+01	Maximum Detected	(5)
Total TEQ (DL @ Half)	pg/g	--	--	7.5E+01		pg/g	7.5E+01	Maximum Detected	(5)

Notes:

J - Estimated concentration.
(1) The Kaplan-Meier estimation method for non-detects was used, as per USEPA (2013).
(2) Data Distribution (Note: data distribution calculated by ProUCL are based on detected values only:
(a) Data set is neither normally, gamma or lognormally distributed.
(b) Data set is lognormally distributed.
(c) Data set is gamma distributed.
(d) Data set is normally distributed.
(3) Statistics (Note: 95% UCL values are calculated using ProUCL software, Version 5.1.
95% Student's-t UCL = UCL of the mean based upon the student's-t statistic
95% KM (t) UCL = UCL based upon Kaplan-Meier Estimates for non-detects using Student's t-Distribution Critical Value
95% Adjusted Gamma UCL = gamma adjusted UCL when n<50
95% KM Adjusted Gamma UCL = gamma adjusted UCL based upon Kaplan-Meier Estimates when n<50
95% Chebyshev (Mean, Sd) UCL = UCL of mean and standard deviation using the Chebyshev Inequality
95% KM Chebyshev UCL = UCL based upon Kaplan-Meier Estimates for non-detects using the Chebyshev Inequality
97.5% KM Chebyshev UCL = UCL based upon Kaplan-Meier Estimates for non-detects using the Chebyshev Inequality
99% KM Chebyshev UCL = UCL based upon Kaplan-Meier Estimates for non-detects using the Chebyshev Inequality
(4) ProUCL recommended value is used as the EPC value. In the event of more than one recommended EPC value, the higher EPC value is used.
(5) Due to the limited dataset an EPC could not be calculated, therefore the maximum detected is the EPC for the soil exposure.

Table 53

Exposure Point Concentration (EPC) Summary for Chemicals of Potential Concern in EU16 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU16 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

Chemicals of Potential Concern	Units	Mean	Data Distribution	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Medium EPC Value	Medium EPC Statistic (1)	Medium EPC Rationale
Volatile Organic Compounds									
Vinyl chloride	µg/kg	--	--	8.9E+01	J	µg/kg	8.9E+01	Maximum Detected	(4)
Semi-Volatiles Organic Compounds									
Benzo(a)pyrene	µg/kg	--	--	7.8E+02	J	µg/kg	7.8E+02	Maximum Detected	(4)
Benzo(b)fluoranthene	µg/kg	--	--	1.8E+03	J	µg/kg	1.8E+03	Maximum Detected	(4)
Metals									
Arsenic	mg/kg	--	--	6.2E+00		mg/kg	6.2E+00	Maximum Detected	(4)
Chromium VI (hexavalent)	mg/kg	--	--	1.0E+00		mg/kg	1.0E+00	Maximum Detected	(4)
Cobalt	mg/kg	--	--	3.6E+00		mg/kg	3.6E+00	Maximum Detected	(4)
Iron	mg/kg	--	--	2.3E+04		mg/kg	2.3E+04	Maximum Detected	(4)
Manganese	mg/kg	--	--	3.6E+02		mg/kg	3.6E+02	Maximum Detected	(4)
Thallium	mg/kg	--	--	1.0E-01	J	mg/kg	1.0E-01	Maximum Detected	(4)
Polychlorinated Biphenyls									
Aroclor-1254 (PCB-1254)	µg/kg	--	--	2.0E+04	J	µg/kg	2.0E+04	Maximum Detected	(4)
Dioxins/Furans									
Total TEQ (DL @ 0)	pg/g	--	--	4.6E+01		pg/g	4.6E+01	Maximum Detected	(4)
Total TEQ (DL @ Half)	pg/g	--	--	5.0E+01		pg/g	5.0E+01	Maximum Detected	(4)

Notes:

J - Estimated concentration.
(1) Due to the limited dataset an EPC could not be calculated, therefore the maximum detected is the EPC for the surface soil exposure.

Table 54

Exposure Point Concentration (EPC) Summary for Chemicals of Potential Concern in EU16 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU16 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

Chemicals of Potential Concern	Units	Mean (1)	Data Distribution (2)	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Medium EPC Value	Medium EPC Statistic (3)	Medium EPC Rationale
Volatile Organic Compounds									
1,1-Dichloroethane	µg/kg	1.9E+01	(d)	2.8E+02	J	µg/kg	5.7E+01	95% KM (t) UCL	(4)
Chlorobenzene	µg/kg	8.3E+03	(d)	1.0E+05		µg/kg	1.7E+04	95% KM (t) UCL	(4)
Ethylbenzene	µg/kg	1.3E+04	(c)	2.1E+05	J	µg/kg	6.9E+04	95% KM Adjusted Gamma UCL	(4)
Tetrachloroethene	µg/kg	1.9E+03	(c)	4.0E+04		µg/kg	1.6E+04	95% KM Adjusted Gamma UCL	(4)
Trichloroethene	µg/kg	1.8E+03	(c)	2.5E+04		µg/kg	8.3E+03	95% KM Adjusted Gamma UCL	(4)
Vinyl chloride	µg/kg	3.3E+01	(d)	2.0E+02	J	µg/kg	6.2E+01	95% KM (t) UCL	(4)
Xylenes (total)	µg/kg	2.9E+04	(c)	5.9E+05	J	µg/kg	2.2E+05	95% KM Adjusted Gamma UCL	(4)
Semi-Volatiles Organic Compounds									
Benzo(a)anthracene	µg/kg	5.3E+02	(b)	6.4E+03		µg/kg	4.8E+03	99% KM Chebyshev UCL	(4)
Benzo(a)pyrene	µg/kg	4.2E+02	(c)	4.5E+03		µg/kg	2.4E+03	95% KM Adjusted Gamma UCL	(4)
Benzo(b)fluoranthene	µg/kg	6.8E+02	(c)	6.2E+03		µg/kg	2.9E+03	95% KM Adjusted Gamma UCL	(4)
Indeno(1,2,3-cd)pyrene	µg/kg	2.2E+02	(c)	2.3E+03		µg/kg	1.2E+03	95% KM Adjusted Gamma UCL	(4)
Naphthalene	µg/kg	1.3E+03	(c)	9.8E+03		µg/kg	4.9E+03	95% KM Adjusted Gamma UCL	(4)
Metals									
Aluminum	mg/kg	7.4E+03	(c)	2.1E+04		mg/kg	1.0E+04	95% Adjusted Gamma UCL	(4)
Antimony	mg/kg	1.7E+01	(b)	1.9E+02	J	mg/kg	1.4E+02	99% Chebyshev (Mean, Sd) UCL	(4)
Arsenic	mg/kg	1.6E+01	(d)	3.0E+01		mg/kg	1.9E+01	95% Student's-t UCL	(4)
Barium	mg/kg	1.6E+03	(c)	7.8E+03		mg/kg	3.5E+03	95% Adjusted Gamma UCL	(4)
Cadmium	mg/kg	5.5E+00	(c)	2.9E+01		mg/kg	1.2E+01	95% KM Adjusted Gamma UCL	(4)
Chromium VI (hexavalent)	mg/kg	6.0E+00	(d)	2.6E+01		mg/kg	9.4E+00	95% KM (t) UCL	(4)
Cobalt	mg/kg	1.2E+01	(c)	3.7E+01		mg/kg	1.8E+01	95% Adjusted Gamma UCL	(4)
Copper	mg/kg	1.4E+03	(c)	7.3E+03	J	mg/kg	3.1E+03	95% Adjusted Gamma UCL	(4)
Cyanide (total)	mg/kg	2.5E+00	(a)	1.1E+01		mg/kg	8.6E+00	97.5% KM Chebyshev UCL	(4)
Iron	mg/kg	5.2E+04	(c)	2.1E+05		mg/kg	1.0E+05	95% KM Adjusted Gamma UCL	(4)
Lead	mg/kg	2.3E+03	(c)	1.6E+04		mg/kg	7.1E+03	95% KM Adjusted Gamma UCL	(4)
Manganese	mg/kg	4.5E+02	(c)	1.4E+03		mg/kg	7.4E+02	95% Adjusted Gamma UCL	(4)
Mercury	mg/kg	8.2E-01	(c)	3.9E+00		mg/kg	1.8E+00	95% KM Adjusted Gamma UCL	(4)
Nickel	mg/kg	1.6E+02	(b)	2.0E+03		mg/kg	4.4E+02	95% Chebyshev (Mean, Sd) UCL	(4)
Thallium	mg/kg	3.7E-01	(c)	2.4E+00		mg/kg	1.0E+00	95% KM Adjusted Gamma UCL	(4)
Vanadium	mg/kg	2.6E+01	(d)	2.0E+03		mg/kg	3.4E+01	95% Student's-t UCL	(4)
Zinc	mg/kg	2.1E+03	(c)	1.9E+04		mg/kg	5.2E+03	95% Adjusted Gamma UCL	(4)

Table 54

Exposure Point Concentration (EPC) Summary for Chemicals of Potential Concern in EU16 Surface and Subsurface Soil (0-15 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU16 Surface and Subsurface Soil (0-15 ft BGS)
Exposure Medium: Soil

Chemicals of Potential Concern	Units	Mean (1)	Data Distribution (2)	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Medium EPC Value	Medium EPC Statistic (3)	Medium EPC Rationale
Polychlorinated Biphenyls									
Aroclor-1242 (PCB-1242)	µg/kg	2.6E+03	(c)	2.9E+04		µg/kg	1.5E+04	95% KM Adjusted Gamma UCL	(4)
Aroclor-1254 (PCB-1254)	µg/kg	1.4E+03	(c)	1.0E+04		µg/kg	4.1E+03	95% KM Adjusted Gamma UCL	(4)
Pesticides									
Dieldrin	µg/kg	--	--	6.8E+01	J	µg/kg	6.8E+01	Maximum Detected	(5)
Dioxins/Furans									
Total TEQ (DL @ 0)	pg/g	1.8E+02	(c)	8.3E+02		pg/g	7.4E+02	95% Adjusted Gamma UCL	(4)
Total TEQ (DL @ Half)	pg/g	1.8E+02	(c)	8.3E+02		pg/g	7.4E+02	95% Adjusted Gamma UCL	(4)
Asbestos									
Chrysotile asbestos	%	--	--	6.0E+01		%	6.0E+01	Maximum Detected	(5)

Notes:

J - Estimated concentration.
(1) The Kaplan-Meier estimation method for non-detects was used, as per USEPA (2013).
(2) Data Distribution (Note: data distribution calculated by ProUCL are based on detected values only:
(a) Data set is neither normally, gamma or lognormally distributed.
(b) Data set is lognormally distributed.
(c) Data set is gamma distributed.
(d) Data set is normally distributed.
(3) Statistics (Note: 95% UCL values are calculated using ProUCL software, Version 5.1.
95% Student's-t UCL = UCL of the mean based upon the student's-t statistic
95% KM (t) UCL = UCL based upon Kaplan-Meier Estimates for non-detects using Student's t-Distribution Critical Value
95% Adjusted Gamma UCL = gamma adjusted UCL when n<50
95% KM Adjusted Gamma UCL = gamma adjusted UCL based upon Kaplan-Meier Estimates when n<50
95% Chebyshev (Mean, Sd) UCL = UCL of mean and standard deviation using the Chebyshev Inequality
99% Chebyshev (Mean, Sd) UCL = UCL of mean and standard deviation using the Chebyshev Inequality
97.5% KM Chebyshev UCL = UCL based upon Kaplan-Meier Estimates for non-detects using the Chebyshev Inequality
99% KM Chebyshev UCL = UCL based upon Kaplan-Meier Estimates for non-detects using the Chebyshev Inequality
(4) ProUCL recommended value is used as the EPC value. In the event of more than one recommended EPC value, the higher EPC value is used.
(5) Due to the limited dataset an EPC could not be calculated, therefore the maximum detected is the EPC for the soil exposure.

Table 55

Exposure Point Concentration (EPC) Summary for Chemicals of Potential Concern in EU17 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU17 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

Chemicals of Potential Concern	Units	Mean (1)	Data Distribution (2)	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Medium EPC Value	Medium EPC Statistic (3)	Medium EPC Rationale
Semi-Volatiles Organic Compounds									
Benzo(a)anthracene	µg/kg	3.7E+02	(d)	1.5E+03	J	µg/kg	5.6E+02	95% Student's-t UCL	(4)
Benzo(a)pyrene	µg/kg	3.7E+02	(d)	1.3E+03		µg/kg	5.5E+02	95% Student's-t UCL	(4)
Benzo(b)fluoranthene	µg/kg	5.8E+02	(d)	1.9E+03		µg/kg	8.6E+02	95% Student's-t UCL	(4)
Carbazole	µg/kg	3.8E+01	(d)	1.1E+02	J	µg/kg	5.5E+01	95% KM (t) UCL	(4)
Dibenz(a,h)anthracene	µg/kg	5.7E+01	(d)	2.0E+02	J	µg/kg	8.6E+01	95% KM (t) UCL	(4)
Metals									
Aluminum	mg/kg	7.8E+03	(d)	1.4E+04		mg/kg	9.6E+03	95% Student's-t UCL	(4)
Antimony	mg/kg	3.5E+01	(c)	2.6E+02		mg/kg	1.4E+02	95% Adjusted Gamma UCL	(4)
Arsenic	mg/kg	1.5E+01	(d)	2.9E+01		mg/kg	1.9E+01	95% Student's-t UCL	(4)
Barium	mg/kg	5.5E+02	(c)	1.8E+03		mg/kg	1.1E+03	95% Adjusted Gamma UCL	(4)
Cadmium	mg/kg	4.5E+00	(c)	2.0E+01		mg/kg	1.2E+01	95% Adjusted Gamma UCL	(4)
Chromium VI (hexavalent)	mg/kg	1.3E+00	(d)	5.4E+00		mg/kg	2.1E+00	95% KM (t) UCL	(4)
Cobalt	mg/kg	1.2E+01	(c)	6.7E+01	J	mg/kg	2.0E+01	95% Adjusted Gamma UCL	(4)
Copper	mg/kg	9.0E+02	(c)	6.0E+03	J	mg/kg	3.2E+03	95% Adjusted Gamma UCL	(4)
Cyanide (total)	mg/kg	3.2E+00	(d)	1.3E+01	J	mg/kg	6.9E+00	95% KM (t) UCL	(4)
Iron	mg/kg	1.9E+04	(d)	4.0E+04		mg/kg	2.4E+04	95% Student's-t UCL	(4)
Lead	mg/kg	4.5E+02	(c)	2.4E+03		mg/kg	1.2E+03	95% Adjusted Gamma UCL	(4)
Lead - coarse fraction	mg/kg	1.1E+03	(c)	4.5E+03	J	mg/kg	2.3E+04	95% Adjusted Gamma UCL	(4)
Lead - fine fraction	mg/kg	7.8E+02	(d)	2.5E+03		mg/kg	1.8E+03	95% Student's-t UCL	(4)
Lead - total (calculated by fine/coarse fraction)	mg/kg	1.1E+03	(c)	4.1E+03		mg/kg	2.0E+04	95% Adjusted Gamma UCL	(4)
Manganese	mg/kg	4.7E+02	(d)	7.6E+02		mg/kg	5.7E+02	95% Student's-t UCL	(4)
Nickel	mg/kg	6.1E+01	(c)	3.3E+02		mg/kg	1.3E+02	95% Adjusted Gamma UCL	(4)
Thallium	mg/kg	2.4E-01	(d)	5.1E-01	J	mg/kg	3.1E-01	95% Student's-t UCL	(4)
Vanadium	mg/kg	2.4E+01	(d)	4.2E+01		mg/kg	2.9E+01	95% Student's-t UCL	(4)
Zinc	mg/kg	7.5E+02	(c)	4.5E+03	J	mg/kg	2.0E+03	95% Adjusted Gamma UCL	(4)

Table 55

Exposure Point Concentration (EPC) Summary for Chemicals of Potential Concern in EU17 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU17 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

Chemicals of Potential Concern	Units	Mean (1)	Data Distribution (2)	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Medium EPC Value	Medium EPC Statistic (3)	Medium EPC Rationale
Polychlorinated Biphenyls									
Aroclor-1254 (PCB-1254)	µg/kg	3.4E+02	(c)	1.7E+03		µg/kg	1.1E+03	95% KM Adjusted Gamma UCL	(4)

Notes:

J - Estimated concentration.
(1) The Kaplan-Meier estimation method for non-detects was used, as per USEPA (2013).
(2) Data Distribution (Note: data distribution calculated by ProUCL are based on detected values only:
(a) Data set is neither normally, gamma or lognormally distributed.
(b) Data set is lognormally distributed.
(c) Data set is gamma distributed.
(d) Data set is normally distributed.
(3) Statistics (Note: 95% UCL values are calculated using ProUCL software, Version 5.1.
95% Student's-t UCL = UCL of the mean based upon the student's-t statistic
95% KM (t) UCL = UCL based upon Kaplan-Meier Estimates for non-detects using Student's t-Distribution Critical Value
95% Adjusted Gamma UCL = gamma adjusted UCL when n<50
95% KM Adjusted Gamma UCL = gamma adjusted UCL based upon Kaplan-Meier Estimates when n<50
(4) ProUCL recommended value is used as the EPC value. In the event of more than one recommended EPC value, the higher EPC value is used.
(5) Recommended UCL exceeds maximum observation, therefore the EPC is the lower suggested UCL.
(6) Due to the limited dataset an EPC could not be calculated, therefore the maximum detected is the EPC for the surface soil exposure.

Table 56

Exposure Point Concentration (EPC) Summary for Chemicals of Potential Concern in EU18-EU19 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU18-EU19 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

Chemicals of Potential Concern	Units	Mean (1)	Data Distribution (2)	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Medium EPC Value	Medium EPC Statistic (3)	Medium EPC Rationale
Volatile Organic Compounds									
1,1-Dichloroethane	µg/kg	--	--	5.6E+02	J	µg/kg	5.6E+02	Maximum Detected	(5)
Semi-Volatiles Organic Compounds									
Benzo(a)anthracene	µg/kg	9.4E+02	(b)	8.5E+03		µg/kg	2.6E+03	95% KM Chebyshev UCL	(4)
Benzo(a)pyrene	µg/kg	7.7E+02	(b)	6.0E+03		µg/kg	2.0E+03	95% KM Chebyshev UCL	(4)
Benzo(b)fluoranthene	µg/kg	1.2E+03	(b)	9.5E+03		µg/kg	3.1E+03	95% KM Chebyshev UCL	(4)
Carbazole	µg/kg	7.1E+01	(a)	8.7E+02		µg/kg	2.4E+02	95% KM Chebyshev UCL	(4)
Dibenz(a,h)anthracene	µg/kg	1.9E+02	(c)	1.6E+03		µg/kg	4.0E+02	95% KM Adjusted Gamma UCL	(4)
Indeno(1,2,3-cd)pyrene	µg/kg	6.0E+02	(b)	5.0E+03		µg/kg	1.5E+03	95% KM Chebyshev UCL	(4)
Metals									
Aluminum	mg/kg	5.5E+03	(d)	1.2E+04		mg/kg	6.3E+03	95% Student's-t UCL	(4)
Antimony	mg/kg	7.3E+00	(b)	5.2E+01		mg/kg	1.7E+01	95% KM Chebyshev UCL	(4)
Arsenic	mg/kg	1.9E+01	(b)	7.7E+01		mg/kg	3.4E+01	95% Chebyshev (Mean, Sd) UCL	(4)
Cadmium	mg/kg	3.9E+00	(b)	3.4E+01		mg/kg	9.1E+00	95% KM Chebyshev UCL	(4)
Chromium VI (hexavalent)	mg/kg	3.0E+00	(c)	1.6E+01		mg/kg	4.4E+00	95% KM Adjusted Gamma UCL	(4)
Cobalt	mg/kg	8.0E+00	(d)	2.2E+01		mg/kg	9.5E+00	95% KM (t) UCL	(4)
Copper	mg/kg	6.2E+03	(a)	1.9E+05		mg/kg	3.1E+04	95% Chebyshev (Mean, Sd) UCL	(4)
Cyanide (total)	mg/kg	4.9E-01	(b)	3.7E+00		mg/kg	5.7E-01	95% KM H-UCL	(4)
Iron	mg/kg	2.2E+04	(b)	9.4E+04		mg/kg	4.0E+04	95% Chebyshev (Mean, Sd) UCL	(4)
Lead	mg/kg	1.1E+03	(b)	1.3E+04		mg/kg	4.4E+03	97.5% Chebyshev (Mean, Sd) UCL	(4)
Lead - coarse fraction	mg/kg	1.4E+03	(b)	6.4E+03		mg/kg	1.4E+04	99% Chebyshev (Mean, Sd) UCL	(4)
Lead - fine fraction	mg/kg	1.0E+03	(b)	4.2E+03		mg/kg	4.5E+03	95% Chebyshev (Mean, Sd) UCL	(4)
Lead - total (calculated by fine/coarse fraction)	mg/kg	1.3E+03	(b)	5.9E+03		mg/kg	1.3E+04	99% Chebyshev (Mean, Sd) UCL	(4)
Manganese	mg/kg	3.0E+02	(d)	1.4E+03		mg/kg	3.8E+02	95% Student's-t UCL	(4)
Nickel	mg/kg	6.1E+01	(b)	4.0E+02		mg/kg	1.2E+02	95% Chebyshev (Mean, Sd) UCL	(4)
Thallium	mg/kg	8.8E-01	(c)	4.5E+00		mg/kg	1.3E+00	95% KM Adjusted Gamma UCL	(4)
Vanadium	mg/kg	2.7E+01	(c)	9.3E+01		mg/kg	3.5E+01	95% Adjusted Gamma UCL	(4)
Zinc	mg/kg	8.0E+02	(b)	1.2E+04		mg/kg	2.4E+03	95% Chebyshev (Mean, Sd) UCL	(4)

Table 56

Exposure Point Concentration (EPC) Summary for Chemicals of Potential Concern in EU18-EU19 Surface Soil (0-2 ft BGS)
South Dayton Dump Site
Moraine, Ohio

Medium: EU18-EU19 Surface Soil (0-2 ft BGS)
Exposure Medium: Surface Soil

Chemicals of Potential Concern	Units	Mean (1)	Data Distribution (2)	Maximum Detected Concentration	Maximum Qualifier	EPC Units	Medium EPC Value	Medium EPC Statistic (3)	Medium EPC Rationale
Volatile Organic Compounds									
1,1-Dichloroethane	µg/kg	--	--	5.6E+02	J	µg/kg	5.6E+02	Maximum Detected	(5)
Polychlorinated Biphenyls									
Aroclor-1242 (PCB-1242)	µg/kg	6.8E+01	(a)	7.7E+02		µg/kg	2.8E+02	95% KM Chebyshev UCL	(4)
Aroclor-1248 (PCB-1248)	µg/kg	1.7E+02	(d)	4.2E+03	X	µg/kg	4.3E+02	95% KM (t) UCL	(4)
Aroclor-1254 (PCB-1254)	µg/kg	1.4E+03	(b)	2.9E+04		µg/kg	7.0E+03	95% KM Chebyshev UCL	(4)
Aroclor-1260 (PCB-1260)	µg/kg	2.3E+02	(d)	2.8E+03	X	µg/kg	4.0E+02	95% KM (t) UCL	(4)
Dioxins/Furans									
Total TEQ (DL @ 0)	pg/g	4.6E+00	(c)	1.9E+01		pg/g	3.9E+01	95% Adjusted Gamma UCL	(4)
Total TEQ (DL @ Half)	pg/g	5.1E+00	(c)	1.9E+01		pg/g	2.7E+01	95% Adjusted Gamma UCL	(4)
Asbestos									
Chrysotile asbestos	%	2.7E-01	(d)	5.0E-01		%	3.2E-01	95% KM (t) UCL	(4)

Notes:

J - Estimated concentration.
X - Unknown description.
(1) The Kaplan-Meier estimation method for non-detects was used, as per USEPA (2013).
(2) Data Distribution (Note: data distribution calculated by ProUCL are based on detected values only:
(a) Data set is neither normally, gamma or lognormally distributed.
(b) Data set is lognormally distributed.
(c) Data set is gamma distributed.
(d) Data set is normally distributed.
(3) Statistics (Note: 95% UCL values are calculated using ProUCL software, Version 5.1):
95% Student's-t UCL = UCL of the mean based upon the student's-t statistic
95% KM (t) UCL = UCL based upon Kaplan-Meier Estimates for non-detects using Student's t-Distribution Critical Value
95% Adjusted Gamma UCL = gamma adjusted UCL when n<50
95% KM Adjusted Gamma UCL = gamma adjusted UCL based upon Kaplan-Meier Estimates when n<50
95% KM Chebyshev UCL = UCL based upon Kaplan-Meier Estimates for non-detects using the Chebyshev Inequality
95% Chebyshev (Mean, Sd) UCL = UCL of mean and standard deviation using the Chebyshev Inequality
97.5% Chebyshev (Mean, Sd) UCL = UCL of mean and standard deviation using the Chebyshev Inequality
99% Chebyshev (Mean, Sd) UCL = UCL of mean and standard deviation using the Chebyshev Inequality
95% KM H-UCL = UCL based upon Kaplan-Meier Estimates for non-detects using Land's H-statistic
(4) ProUCL recommended value is used as the EPC value. In the event of more than one recommended EPC value, the higher EPC value is used.
(5) Due to the limited dataset an EPC could not be calculated, therefore the maximum detected is the EPC for the surface soil exposure.

Appendix G
Screening Comparison – Floodplain Soil Samples

Table 1

Summary of Detections - Comparison to Rsls
Floodplain Soil Samples - Adjacent to OU1
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:					SS-164	SS-164	SS-165	SS-165	SS-165
Sample ID:					S-38443-080618-JC-122	S-38443-080618-JC-123	S-38443-080618-JC-124	S-38443-080618-JC-125	S-38443-080618-JC-126
Sample Date:					8/6/2018	8/6/2018	8/6/2018	8/6/2018	8/6/2018
Sample Depth:					0.17-0.67 ft BGS	0.67-2.17 ft BGS	0.17-0.67 ft BGS	0.17-0.67 ft BGS	0.67-1.17 ft BGS
								Duplicate	
Parameters	**Units**	**Detects**	**RSL Industrial (TR=1E-06, THQ=0.1) a**	**RSL Residential (TR=1E-06, THQ=0.1) b**					
Volatiles									
1,4-Dichlorobenzene	ug/kg	1	11000	2600	0.93 U	1.3 U	1.2 U	1.3 U	1.3 U
Acetone	ug/kg	6	67000000	6100000	92	31 U	29 U	32 U	31 U
Methylene chloride	ug/kg	1	320000	35000	13 U	18 U	17 U	18 U	18 U
Toluene	ug/kg	1	4700000	490000	0.82 U	1.1 U	1.3 J	1.2 U	1.1 U
Semi-Volatiles									
2-Methylnaphthalene	ug/kg	25	300000	24000	110	5.7 J	7.5 J	8.7	9.6
Acenaphthene	ug/kg	23	4500000	360000	61	1.1 U	5.4 J	6.0 J	35
Acenaphthylene	ug/kg	26	-	-	46	6.2 J	11	11	12
Anthracene	ug/kg	26	23000000	1800000	120	6.6 J	20	21	99
Benzaldehyde	ug/kg	1	820000	170000	25 U	32 U	28 U	25 U	28 U
Benzo(a)anthracene	ug/kg	26	21000	1100	570	39	100	110	270
Benzo(a)pyrene	ug/kg	26	2100	110	**590[b]**	50	**120[b]**	**120[b]**	**230[b]**
Benzo(b)fluoranthene	ug/kg	26	21000	1100	1000	70	190	200	370
Benzo(g,h,i)perylene	ug/kg	26	-	-	440	36	86	80	140
Benzo(k)fluoranthene	ug/kg	26	210000	11000	410	28	76	73	150
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	18	160000	39000	130	89 J	61 U	56 U	63 U
Butyl benzylphthalate (BBP)	ug/kg	3	1200000	290000	24 U	31 U	26 U	24 U	27 U
Carbazole	ug/kg	18	-	-	120	26 U	23 U	21 U	84
Chrysene	ug/kg	26	2100000	110000	660	47	120	120	270
Dibenz(a,h)anthracene	ug/kg	16	2100	110	**120[b]**	0.92 U	0.79 U	0.72 U	38
Dibenzofuran	ug/kg	14	100000	7300	68	18 U	16 U	14 U	30 J
Di-n-butylphthalate (DBP)	ug/kg	13	8200000	630000	36 J	59 J	37 J	24 U	34 J
Fluoranthene	ug/kg	26	3000000	240000	1300	79	220	220	650
Fluorene	ug/kg	24	3000000	240000	48	0.74 U	6.4 J	4.7 J	42
Indeno(1,2,3-cd)pyrene	ug/kg	26	21000	1100	390	29	77	72	130
Naphthalene	ug/kg	24	17000	3800	67	5.0 J	5.5 J	7.0 J	7.2 J
Phenanthrene	ug/kg	26	-	-	830	34	87	79	500
Phenol	ug/kg	1	25000000	1900000	8.8 U	11 U	9.6 U	8.8 U	9.9 U
Pyrene	ug/kg	26	2300000	180000	1100	73	200	200	560
Metals									
Aluminum	mg/kg	26	110000	7700	6200	6000	4800	5200	5000
Antimony	mg/kg	26	47	3.1	0.63 J	0.27 J	0.33 J	0.37 J	0.34 J
Arsenic	mg/kg	26	3	0.68	**8.0[ab]**	**5.4[ab]**	**7.4[ab]**	**7.7[ab]**	**11[ab]**
Barium	mg/kg	26	22000	1500	92	85	100	110	150
Beryllium	mg/kg	25	230	16	0.56	0.47	0.39	0.37	0.34

Table 1

Summary of Detections - Comparison to Rsls
Floodplain Soil Samples - Adjacent to OU1
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:					SS-164	SS-164	SS-165	SS-165	SS-165
Sample ID:					S-38443-080618-JC-122	S-38443-080618-JC-123	S-38443-080618-JC-124	S-38443-080618-JC-125	S-38443-080618-JC-126
Sample Date:					8/6/2018	8/6/2018	8/6/2018	8/6/2018	8/6/2018
Sample Depth:					0.17-0.67 ft BGS	0.67-2.17 ft BGS	0.17-0.67 ft BGS	0.17-0.67 ft BGS	0.67-1.17 ft BGS
								Duplicate	
Parameters	**Units**	**Detects**	**RSL Industrial (TR=1E-06, THQ=0.1) a**	**RSL Residential (TR=1E-06, THQ=0.1) b**					
Cadmium	mg/kg	26	-	-	0.91	0.46	0.39	0.41	0.38
Calcium	mg/kg	26	-	-	74000	42000	85000	88000	100000
Chromium	mg/kg	26	-	-	19	12	10	11	11
Chromium III (trivalent)	mg/kg	26	180000	12000	19	11	10	11	11
Chromium VI (hexavalent)	mg/kg	6	6.3	0.3	0.53 U	**0.52 J[b]**	0.58 U	0.53 U	0.59 U
Cobalt	mg/kg	26	35	2.3	**5.4[b]**	**4.6[b]**	**4.1[b]**	**4.4[b]**	**4.4[b]**
Copper	mg/kg	26	4700	310	35	15	14	15	14
Iron	mg/kg	26	82000	5500	**14000[b]**	**12000[b]**	**11000[b]**	**12000[b]**	**12000[b]**
Lead	mg/kg	26	800	400	55	18	20	21	18
Magnesium	mg/kg	26	-	-	24000	18000	28000	27000	35000
Manganese	mg/kg	26	2600	180	**450[b]**	**440[b]**	**490[b]**	**520[b]**	**690[b]**
Mercury	mg/kg	25	4.6	1.1	0.079 J	0.028 U	0.036 J	0.040 J	0.035 J
Nickel	mg/kg	26	2200	150	17	12	10	11	11
Potassium	mg/kg	26	-	-	940	850	1000	1100	950
Selenium	mg/kg	26	580	39	1.1	0.82 J	0.87 J	0.85 J	0.79 J
Silver	mg/kg	26	580	39	0.38	0.13 J	0.067 J	0.074 J	0.060 J
Sodium	mg/kg	26	-	-	93 J	82 J	95 J	94 J	130 J
Thallium	mg/kg	26	1.2	0.078	**0.20[b]**	**0.16 J[b]**	**0.15 J[b]**	**0.15 J[b]**	**0.15 J[b]**
Vanadium	mg/kg	26	580	39	17	16	14	15	15
Zinc	mg/kg	26	35000	2300	91	49	55	59	50
PCBs									
Aroclor-1248 (PCB-1248)	ug/kg	1	950	230	27 U	33 U	28 U	27 U	29 U
Aroclor-1254 (PCB-1254)	ug/kg	20	970	120	**280[b]**	57 J	26 U	26 U	28 U
Pesticides									
4,4'-DDE	ug/kg	2	9300	2000	8.6 U	2.1 U	1.7 U	1.7 U	1.8 U
4,4'-DDT	ug/kg	1	8500	1900	6.5 U	1.5 U	1.3 U	1.3 U	1.4 U
alpha-Chlordane	ug/kg	2	-	-	8.6 U	2.0 U	1.7 U	1.7 U	1.8 U
Endosulfan sulfate	ug/kg	1	-	-	7.3 U	1.7 U	1.5 U	1.5 U	1.6 U
Endrin aldehyde	ug/kg	2	-	-	8.9 J	1.8 U	1.5 U	1.5 U	1.6 U
gamma-BHC (lindane)	ug/kg	1	2500	570	10 U	2.4 U	2.1 U	2.0 U	2.2 U
gamma-Chlordane	ug/kg	1	-	-	7.0 U	1.7 U	1.4 U	1.4 U	1.5 U
Heptachlor epoxide	ug/kg	1	330	70	8.2 U	2.0 U	1.7 U	1.6 U	1.8 U
Toxaphene	ug/kg	1	2100	490	140 U	34 U	29 U	29 U	30 U

Table 1

Summary of Detections - Comparison to Rsls
Floodplain Soil Samples - Adjacent to OU1
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:					**SS-164**	**SS-164**	**SS-165**	**SS-165**	**SS-165**
Sample ID:					**S-38443-080618-JC-122**	**S-38443-080618-JC-123**	**S-38443-080618-JC-124**	**S-38443-080618-JC-125**	**S-38443-080618-JC-126**
Sample Date:					**8/6/2018**	**8/6/2018**	**8/6/2018**	**8/6/2018**	**8/6/2018**
Sample Depth:					**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.17-0.67 ft BGS**	**0.67-1.17 ft BGS**
								Duplicate	
Parameters	**Units**	**Detects**	**RSL Industrial (TR=1E-06, THQ=0.1) a**	**RSL Residential (TR=1E-06, THQ=0.1) b**					
Herbicides									
2,4,5-TP (Silvex)	ug/kg	1	660000	51000	16 U	20 U	17 U	16 U	18 U
General Chemistry									
Cyanide (total)	mg/kg	1	15	2.3	0.19 U	0.26 U	0.22 U	0.22 U	0.24 U

Notes

J - Estimated concentration.

NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.

Table 1

Summary of Detections - Comparison to Rsls
Floodplain Soil Samples - Adjacent to OU1
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-166**	**SS-166**	**SS-167**	**SS-167**	**SS-168**	**SS-168**	**SS-169**
Sample ID:		**S-38443-080718-JC-127**	**S-38443-080718-JC-128**	**S-38443-080718-JC-129**	**S-38443-080718-JC-130**	**S-38443-080718-JC-131**	**S-38443-080718-JC-132**	**S-38443-080718-JC-134**
Sample Date:		**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**
Sample Depth:		**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**
Parameters	**Units**							
Volatiles								
1,4-Dichlorobenzene	ug/kg	1.1 U	1.0 U	0.99 U	0.91 U	1.0 U	1.1 U	1.2 J
Acetone	ug/kg	27 U	24 U	45	140	24 U	26 U	29 U
Methylene chloride	ug/kg	15 U	14 U	13 U	12 U	14 U	15 U	17 U
Toluene	ug/kg	0.99 U	0.89 U	0.86 U	0.80 U	0.88 U	0.96 U	1.1 U
Semi-Volatiles								
2-Methylnaphthalene	ug/kg	31	17	6.8 J	0.54 U	13	32	18
Acenaphthene	ug/kg	28	0.93 U	8.5	0.82 U	10	12	26
Acenaphthylene	ug/kg	40	23	11	5.5 J	37	44	46
Anthracene	ug/kg	97	33	51	8.3	37	44	90
Benzaldehyde	ug/kg	49 J	28 U	25 U	25 U	30 U	29 U	28 U
Benzo(a)anthracene	ug/kg	410	200	130	38	260	290	520
Benzo(a)pyrene	ug/kg	**450[b]**	**210[b]**	110	43	**320[b]**	**340[b]**	**590[b]**
Benzo(b)fluoranthene	ug/kg	820	310	160	50	630	600	1100
Benzo(g,h,i)perylene	ug/kg	260	180	54	20	210	230	340
Benzo(k)fluoranthene	ug/kg	260	160	71	23	290	280	410
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	110	63 U	68 J	55 U	76 J	130	80 J
Butyl benzylphthalate (BBP)	ug/kg	28 U	27 U	24 U	24 U	29 U	28 J	27 U
Carbazole	ug/kg	64	23 U	20 U	20 U	34 J	32 J	72
Chrysene	ug/kg	470	230	120	40	380	360	680
Dibenz(a,h)anthracene	ug/kg	72	0.81 U	0.71 U	0.71 U	50	59	88
Dibenzofuran	ug/kg	31 J	16 U	14 U	14 U	17 U	16 U	22 J
Di-n-butylphthalate (DBP)	ug/kg	34 J	27 U	41 J	43 J	30 J	44 J	27 U
Fluoranthene	ug/kg	930	350	230	54	620	520	1300
Fluorene	ug/kg	33	7.2 J	8.7	0.57 U	11	12	28
Indeno(1,2,3-cd)pyrene	ug/kg	240	150	47	17	200	200	330
Naphthalene	ug/kg	27	15	10	8.6 U	11	23	19
Phenanthrene	ug/kg	450	110	120	18	180	190	480
Phenol	ug/kg	10 U	9.8 U	8.6 U	8.6 U	10 U	10 U	9.8 U
Pyrene	ug/kg	820	340	250	68	550	480	1100
Metals								
Aluminum	mg/kg	7500	**8500[b]**	4900	3900	**12000[b]**	**14000[b]**	**8600[b]**
Antimony	mg/kg	1.3 J	0.90 J	0.29 J	0.15 J	0.33 J	0.71 J	0.24 J
Arsenic	mg/kg	**9.8[ab]**	**10[ab]**	**8.9[ab]**	**6.3[ab]**	**10[ab]**	**12[ab]**	**7.7[ab]**
Barium	mg/kg	140	140	88	62	150	160	120
Beryllium	mg/kg	0.67	0.62	0.30	0.24 U	0.66	0.83	0.46

Table 1

Summary of Detections - Comparison to Rsls
Floodplain Soil Samples - Adjacent to OU1
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-166**	**SS-166**	**SS-167**	**SS-167**	**SS-168**	**SS-168**	**SS-169**
Sample ID:		**S-38443-080718-JC-127**	**S-38443-080718-JC-128**	**S-38443-080718-JC-129**	**S-38443-080718-JC-130**	**S-38443-080718-JC-131**	**S-38443-080718-JC-132**	**S-38443-080718-JC-134**
Sample Date:		**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**
Sample Depth:		**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**
Parameters	**Units**							
Cadmium	mg/kg	1.2	0.79	0.27	0.20	0.78	1.5	0.74
Calcium	mg/kg	72000	78000	85000	78000	58000	50000	76000
Chromium	mg/kg	18	16	9.3	7.6	23	36	21
Chromium III (trivalent)	mg/kg	18	16	9.3	7.3	23	36	21
Chromium VI (hexavalent)	mg/kg	1.5 U	0.30 U	0.26 U	**0.36 J[b]**	0.62 U	0.61 U	0.59 U
Cobalt	mg/kg	**5.8[b]**	**6.6[b]**	**3.9[b]**	**3.3[b]**	**9.1[b]**	**9.7[b]**	**6.6[b]**
Copper	mg/kg	42	33	13	9.7	31	46	26
Iron	mg/kg	**14000[b]**	**16000[b]**	**11000[b]**	**8700[b]**	**24000[b]**	**25000[b]**	**17000[b]**
Lead	mg/kg	68	47	14	11	41	64	36
Magnesium	mg/kg	24000	24000	23000	27000	20000	18000	24000
Manganese	mg/kg	**470[b]**	**550[b]**	**390[b]**	**320[b]**	**650[b]**	**610[b]**	**520[b]**
Mercury	mg/kg	0.13	0.10 J	0.054 J	0.048 J	0.086 J	0.14	0.078 J
Nickel	mg/kg	17	18	10	9.1	26	32	20
Potassium	mg/kg	1200	1100	780	530	1900	1800	1200
Selenium	mg/kg	1.5	1.3	0.65 J	0.49 J	1.6	1.6	1.3
Silver	mg/kg	0.34	0.25	0.059 J	0.036 J	0.42	0.74	0.39
Sodium	mg/kg	93 J	89 J	87 J	89 J	89 J	88 J	100 J
Thallium	mg/kg	**0.28[b]**	**0.27[b]**	**0.11 J[b]**	**0.18 J[b]**	**0.40[b]**	**0.49[b]**	**0.30[b]**
Vanadium	mg/kg	20	21	13	12	28	33	21
Zinc	mg/kg	140	110	35	28	120	150	100
PCBs								
Aroclor-1248 (PCB-1248)	ug/kg	31 U	28 U	27 U	25 U	32 U	30 U	30 U
Aroclor-1254 (PCB-1254)	ug/kg	95	39 J	26 U	24 U	56 J	**440[b]**	110
Pesticides								
4,4'-DDE	ug/kg	1.9 U	R	1.7 U	1.6 U	2.0 U	2.4 NJ	1.9 U
4,4'-DDT	ug/kg	1.4 U	R	1.3 U	1.2 U	1.5 U	1.4 U	1.4 U
alpha-Chlordane	ug/kg	1.9 U	1.8 UJ	1.7 U	1.6 U	2.0 U	1.8 U	1.9 U
Endosulfan sulfate	ug/kg	1.6 U	R	1.4 U	1.4 U	1.7 U	2.9 J	1.6 U
Endrin aldehyde	ug/kg	1.7 U	R	1.5 U	1.4 U	2.0 NJ	1.6 U	1.6 U
gamma-BHC (lindane)	ug/kg	2.3 U	R	2.0 U	1.9 U	2.4 U	2.2 U	2.2 U
gamma-Chlordane	ug/kg	1.6 U	R	1.4 U	1.3 U	1.6 U	1.5 U	1.5 U
Heptachlor epoxide	ug/kg	1.8 U	1.7 UJ	1.6 U	1.5 U	1.9 U	2.8 NJ	1.8 U
Toxaphene	ug/kg	32 U	30 U	28 U	26 U	33 U	31 U	31 U

Table 1

Summary of Detections - Comparison to Rsls
Floodplain Soil Samples - Adjacent to OU1
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-166**	**SS-166**	**SS-167**	**SS-167**	**SS-168**	**SS-168**	**SS-169**
Sample ID:		**S-38443-080718-JC-127**	**S-38443-080718-JC-128**	**S-38443-080718-JC-129**	**S-38443-080718-JC-130**	**S-38443-080718-JC-131**	**S-38443-080718-JC-132**	**S-38443-080718-JC-134**
Sample Date:		**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**
Sample Depth:		**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**
Parameters	**Units**							
Herbicides								
2,4,5-TP (Silvex)	ug/kg	17 U	17 U	15 U	15 U	18 U	19 U	18 U
General Chemistry								
Cyanide (total)	mg/kg	0.27 J	0.24 U	0.19 U	0.20 U	0.23 U	0.25 U	0.22 U

Notes

J - Estimated concentration.

NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.

Table 1

Summary of Detections - Comparison to Rsls
Floodplain Soil Samples - Adjacent to OU1
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-169**	**SS-170**	**SS-170**	**SS-171**	**SS-171**	**SS-172**	**SS-172**
Sample ID:		**S-38443-080718-JC-135**	**S-38443-080718-JC-136**	**S-38443-080718-JC-137**	**S-38443-080718-JC-138**	**S-38443-080718-JC-139**	**S-38443-080718-JC-141**	**S-38443-080718-JC-142**
Sample Date:		**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**
Sample Depth:		**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**
Parameters	**Units**							
Volatiles								
1,4-Dichlorobenzene	ug/kg	1.1 U	0.97 U	0.88 U	1.0 U	1.1 U	1.1 U	0.96 U
Acetone	ug/kg	26 U	23 U	21 U	25 U	26 U	25 U	23 U
Methylene chloride	ug/kg	15 U	13 U	12 U	14 U	15 U	15 U	21 J
Toluene	ug/kg	0.96 U	0.85 U	0.77 U	0.92 U	0.95 U	0.93 U	0.84 U
Semi-Volatiles								
2-Methylnaphthalene	ug/kg	35	26	62	29	42	13	24
Acenaphthene	ug/kg	60	31	120	45	120	16	21
Acenaphthylene	ug/kg	50	35	56	55	80	32	41
Anthracene	ug/kg	100	85	170	150	1500	60	69
Benzaldehyde	ug/kg	29 U	29 U	54 U	56 U	110 U	28 U	28 U
Benzo(a)anthracene	ug/kg	500	540	820	690	**1900[b]**	380	390
Benzo(a)pyrene	ug/kg	**570[b]**	**610[b]**	**850[b]**	**750[b]**	**1600[b]**	**430[b]**	**430[b]**
Benzo(b)fluoranthene	ug/kg	1000	1100	**1400[b]**	**1400[b]**	**2700[b]**	870	860
Benzo(g,h,i)perylene	ug/kg	300	300	810	380	630	240	210
Benzo(k)fluoranthene	ug/kg	400	410	560	570	1100	280	290
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	150	79 J	150 J	130 U	230 U	100	120
Butyl benzylphthalate (BBP)	ug/kg	28 U	27 U	52 U	54 U	100 U	27 U	49 J
Carbazole	ug/kg	85	77	180	110 J	280	56 J	54 J
Chrysene	ug/kg	610	700	1000	900	1900	520	480
Dibenz(a,h)anthracene	ug/kg	0.83 U	86	**190[b]**	110	**190[b]**	0.80 U	0.80 U
Dibenzofuran	ug/kg	30 J	25 J	94 J	39 J	89 J	16 J	17 J
Di-n-butylphthalate (DBP)	ug/kg	29 J	36 J	52 U	54 U	100 U	27 U	33 J
Fluoranthene	ug/kg	1200	1300	2100	1800	4600	950	900
Fluorene	ug/kg	46	31	83	60	260	18	23
Indeno(1,2,3-cd)pyrene	ug/kg	290	300	690	360	640	230	210
Naphthalene	ug/kg	29	25	99	29	37	10	16
Phenanthrene	ug/kg	560	510	1400	800	2500	350	350
Phenol	ug/kg	10 U	10 U	19 U	20 U	37 U	15 J	9.7 U
Pyrene	ug/kg	1000	1100	1800	1600	3900	830	790
Metals								
Aluminum	mg/kg	**11000[b]**	7600	**9000[b]**	7400	6900	**7900[b]**	**9700[b]**
Antimony	mg/kg	0.39 J	0.40 J	0.30 J	0.22 J	0.28 J	0.21 J	0.24 J
Arsenic	mg/kg	**10[ab]**	**9.2[ab]**	**8.9[ab]**	**7.3[ab]**	**7.2[ab]**	**6.8[ab]**	**8.6[ab]**
Barium	mg/kg	160	110	130	110	97	110	130
Beryllium	mg/kg	0.64	0.45	0.55	0.44	0.39	0.44	0.53

Table 1

Summary of Detections - Comparison to Rsls
Floodplain Soil Samples - Adjacent to OU1
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-169**	**SS-170**	**SS-170**	**SS-171**	**SS-171**	**SS-172**	**SS-172**
Sample ID:		**S-38443-080718-JC-135**	**S-38443-080718-JC-136**	**S-38443-080718-JC-137**	**S-38443-080718-JC-138**	**S-38443-080718-JC-139**	**S-38443-080718-JC-141**	**S-38443-080718-JC-142**
Sample Date:		**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**
Sample Depth:		**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**
Parameters	**Units**							
Cadmium	mg/kg	2.5	0.61	1.9	0.54	0.78	0.49	0.84
Calcium	mg/kg	68000	88000	69000	83000	90000	79000	68000
Chromium	mg/kg	54	19	43	16	22	17	23
Chromium III (trivalent)	mg/kg	53	19	43	16	21	17	23
Chromium VI (hexavalent)	mg/kg	**0.76 J[b]**	0.60 U	**0.43 J[b]**	0.59 U	**0.42 J[b]**	0.58 U	0.58 U
Cobalt	mg/kg	**8.5[b]**	**6.2[b]**	**7.3[b]**	**6.3[b]**	**5.8[b]**	**6.1[b]**	**7.5[b]**
Copper	mg/kg	60	23	45	23	31	21	28
Iron	mg/kg	**22000[b]**	**16000[b]**	**18000[b]**	**17000[b]**	**16000[b]**	**16000[b]**	**19000[b]**
Lead	mg/kg	92	34	92	29	44	27	46
Magnesium	mg/kg	22000	25000	21000	25000	28000	25000	23000
Manganese	mg/kg	**610[b]**	**500[b]**	**550[b]**	**520[b]**	**470[b]**	**460[b]**	**560[b]**
Mercury	mg/kg	0.16	0.068 J	0.15	0.062 J	0.075 J	0.060 J	0.094 J
Nickel	mg/kg	32	18	28	17	20	17	23
Potassium	mg/kg	1400	1100	1000	1100	1000	1300	1500
Selenium	mg/kg	1.4	1.2	1.3	1.3	1.1	1.1	1.3
Silver	mg/kg	1.3	0.28	0.97	0.20 J	0.41	0.19 J	0.52
Sodium	mg/kg	96 J	100 J	94 J	110 J	120 J	100 J	97 J
Thallium	mg/kg	**0.40[b]**	**0.28[b]**	**0.33[b]**	**0.28[b]**	**0.23[b]**	**0.26[b]**	**0.34[b]**
Vanadium	mg/kg	27	21	22	19	18	20	23
Zinc	mg/kg	180	91	140	90	110	85	110
PCBs								
Aroclor-1248 (PCB-1248)	ug/kg	**4600[ab]**	29 U	150 U	31 U	28 U	28 U	30 U
Aroclor-1254 (PCB-1254)	ug/kg	290 U	79	**860[b]**	65	**150[b]**	60	70
Pesticides								
4,4'-DDE	ug/kg	19 U	1.8 U	9.2 U	2.5 J	1.7 U	1.7 U	1.9 U
4,4'-DDT	ug/kg	14 U	1.4 U	6.9 U	1.4 U	1.3 U	1.3 U	1.4 U
alpha-Chlordane	ug/kg	19 U	1.8 U	9.1 U	1.9 U	1.7 U	1.7 U	1.9 U
Endosulfan sulfate	ug/kg	16 U	1.6 U	7.8 U	1.6 U	1.5 U	1.5 U	1.6 U
Endrin aldehyde	ug/kg	16 U	1.6 U	8.0 U	1.7 U	1.5 U	1.5 U	1.6 U
gamma-BHC (lindane)	ug/kg	29 J	2.2 U	11 U	2.3 U	2.1 U	2.1 U	2.2 U
gamma-Chlordane	ug/kg	15 U	1.5 U	7.5 U	1.6 U	1.4 U	1.4 U	1.5 U
Heptachlor epoxide	ug/kg	18 U	1.8 U	8.8 U	1.8 U	1.7 U	1.7 U	1.8 U
Toxaphene	ug/kg	310 U	30 U	150 U	32 U	29 U	51 J	31 U

Table 1

Summary of Detections - Comparison to Rsls
Floodplain Soil Samples - Adjacent to OU1
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-169**	**SS-170**	**SS-170**	**SS-171**	**SS-171**	**SS-172**	**SS-172**
Sample ID:		**S-38443-080718-JC-135**	**S-38443-080718-JC-136**	**S-38443-080718-JC-137**	**S-38443-080718-JC-138**	**S-38443-080718-JC-139**	**S-38443-080718-JC-141**	**S-38443-080718-JC-142**
Sample Date:		**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**
Sample Depth:		**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**
Parameters	**Units**							
Herbicides								
2,4,5-TP (Silvex)	ug/kg	73 J	17 U	17 U	18 U	16 U	17 U	17 U
General Chemistry								
Cyanide (total)	mg/kg	0.22 U	0.22 U	0.22 U	0.24 U	0.19 U	0.22 U	0.23 U

Notes

J - Estimated concentration.

NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.

Table 1

Summary of Detections - Comparison to Rsls
Floodplain Soil Samples - Adjacent to OU1
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-173**	**SS-173**	**SS-174**	**SS-174**	**SS-174**	**SS-175**	**SS-175**
Sample ID:		**S-38443-080818-JC-143**	**S-38443-080818-JC-144**	**S-38443-080818-JC-145**	**S-38443-080818-JC-146**	**S-38443-080818-JC-147**	**S-38443-080818-JC-148**	**S-38443-080818-JC-149**
Sample Date:		**8/8/2018**	**8/8/2018**	**8/8/2018**	**8/8/2018**	**8/8/2018**	**8/8/2018**	**8/8/2018**
Sample Depth:		**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**
						Duplicate		
Parameters	**Units**							
Volatiles								
1,4-Dichlorobenzene	ug/kg	0.93 U	1.0 U	0.99 U	0.89 U	0.95 U	1.1 U	0.94 U
Acetone	ug/kg	22 J	64	24 U	21 U	38	25 U	22 U
Methylene chloride	ug/kg	13 U	14 U	14 U	12 U	13 U	14 U	13 U
Toluene	ug/kg	0.82 U	0.89 U	0.87 U	0.78 U	0.83 U	0.92 U	0.83 U
Semi-Volatiles								
2-Methylnaphthalene	ug/kg	33	34	15 J	16	21	27 J	11
Acenaphthene	ug/kg	150	22	31	36	54	45	4.5 J
Acenaphthylene	ug/kg	38	42	38	37	37	32 J	11
Anthracene	ug/kg	270	150	91	110	160	100	18
Benzaldehyde	ug/kg	54 U	25 U	56 U	54 U	54 U	110 U	28 U
Benzo(a)anthracene	ug/kg	960	510	590	580	780	520	100
Benzo(a)pyrene	ug/kg	**1000[b]**	**580[b]**	**820[b]**	**750[b]**	**940[b]**	**610[b]**	**130[b]**
Benzo(b)fluoranthene	ug/kg	**1500[b]**	790	**1200[b]**	**1200[b]**	**1500[b]**	980	190
Benzo(g,h,i)perylene	ug/kg	490	300	560	440	530	380	110
Benzo(k)fluoranthene	ug/kg	350	220	350	360	440	210	67
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	120 J	160	150 J	140 J	140 J	250 U	120
Butyl benzylphthalate (BBP)	ug/kg	52 U	24 U	54 U	52 U	52 U	110 J	27 U
Carbazole	ug/kg	250	57	81 J	86 J	110 J	95 U	23 U
Chrysene	ug/kg	1100	540	840	760	1000	630	140
Dibenz(a,h)anthracene	ug/kg	110	76	110	89	**140[b]**	3.3 U	17
Dibenzofuran	ug/kg	100 J	29 J	32 U	31 U	47 J	65 U	16 U
Di-n-butylphthalate (DBP)	ug/kg	52 U	26 J	54 U	52 U	52 U	110 U	27 U
Fluoranthene	ug/kg	2800	1400	1600	1700	2400	1300	200
Fluorene	ug/kg	150	35	35	42	75	42	5.3 J
Indeno(1,2,3-cd)pyrene	ug/kg	470	290	510	390	500	370	90
Naphthalene	ug/kg	54	40	20	21	24	31 J	37 U
Phenanthrene	ug/kg	1900	630	610	730	1300	690	83
Phenol	ug/kg	19 U	8.8 U	20 U	19 U	19 U	40 U	9.7 U
Pyrene	ug/kg	1700	890	1200	1100	1500	940	190
Metals								
Aluminum	mg/kg	**8100[b]**	4300	7000	5000	4800	7300	4300
Antimony	mg/kg	0.26 J	0.20 J	0.17 J	0.14 J	0.13 J	0.18 J	0.17 J
Arsenic	mg/kg	**7.2[ab]**	**4.8[ab]**	**6.2[ab]**	**4.8[ab]**	**4.7[ab]**	**6.1[ab]**	**5.1[ab]**
Barium	mg/kg	110	61	110	74	77	100	89
Beryllium	mg/kg	0.73	0.30	0.45	0.31	0.31	0.48	0.31

Table 1

Summary of Detections - Comparison to Rsls
Floodplain Soil Samples - Adjacent to OU1
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-173**	**SS-173**	**SS-174**	**SS-174**	**SS-174**	**SS-175**	**SS-175**
Sample ID:		**S-38443-080818-JC-143**	**S-38443-080818-JC-144**	**S-38443-080818-JC-145**	**S-38443-080818-JC-146**	**S-38443-080818-JC-147**	**S-38443-080818-JC-148**	**S-38443-080818-JC-149**
Sample Date:		**8/8/2018**	**8/8/2018**	**8/8/2018**	**8/8/2018**	**8/8/2018**	**8/8/2018**	**8/8/2018**
Sample Depth:		**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**
						Duplicate		
Parameters	**Units**							
Cadmium	mg/kg	0.93	0.82	0.49	0.42	0.39	0.89	0.56
Calcium	mg/kg	72000	96000	83000	90000	93000	73000	100000
Chromium	mg/kg	24	19	15	13	13	24	12
Chromium III (trivalent)	mg/kg	24	18	15	13	13	24	12
Chromium VI (hexavalent)	mg/kg	0.57 U	**0.55 J[b]**	0.59 U	0.56 U	0.57 U	0.60 U	0.29 U
Cobalt	mg/kg	**5.9[b]**	**3.5 J[b]**	**5.2[b]**	**3.7[b]**	**3.9[b]**	**5.0[b]**	**3.6[b]**
Copper	mg/kg	25	21 J	20	16	15	27	16
Iron	mg/kg	**15000[b]**	**9300 J[b]**	**14000[b]**	**10000[b]**	**10000[b]**	**13000[b]**	**9300[b]**
Lead	mg/kg	46	52 J	25	27	22	54	19
Magnesium	mg/kg	24000	29000 J	25000	27000	27000	22000	22000
Manganese	mg/kg	**500[b]**	**350 J[b]**	**510[b]**	**370[b]**	**390[b]**	**410[b]**	**360[b]**
Mercury	mg/kg	0.093 J	0.057 J	0.071 J	0.056 J	0.049 J	0.10 J	0.038 J
Nickel	mg/kg	19 J	12 J	14 J	11 J	11 J	17 J	10 J
Potassium	mg/kg	1000 J	520 J	910 J	610 J	610 J	810 J	460 J
Selenium	mg/kg	0.97 J	0.53 J	0.92 J	0.73 J	0.66 J	0.80 J	0.59 J
Silver	mg/kg	0.55 J	0.31 J	0.19 J	0.20 J	0.21 J	0.49 J	0.18 J
Sodium	mg/kg	110 J	130 J	120 J	130 J	120 J	110 J	130 J
Thallium	mg/kg	**0.27[b]**	**0.15 J[b]**	**0.24[b]**	**0.17 J[b]**	**0.17 J[b]**	**0.23[b]**	**0.13 J[b]**
Vanadium	mg/kg	19	12	17	14	14	18	12 J
Zinc	mg/kg	97	69	75	59	59	89	40 J
PCBs								
Aroclor-1248 (PCB-1248)	ug/kg	30 U	26 U	30 U	29 U	30 U	30 U	29 U
Aroclor-1254 (PCB-1254)	ug/kg	110	**360[b]**	51 J	63	53 J	**300[b]**	120
Pesticides								
4,4'-DDE	ug/kg	1.9 U	8.1 U	9.6 U	9.2 U	9.4 U	9.5 U	9.2 U
4,4'-DDT	ug/kg	17 J	6.1 U	7.2 U	6.9 U	7.0 U	7.1 U	6.9 U
alpha-Chlordane	ug/kg	2.5 J	11 J	9.5 U	9.1 U	9.3 U	9.5 U	9.1 U
Endosulfan sulfate	ug/kg	1.6 U	6.9 U	8.1 U	7.8 U	7.9 U	8.1 U	7.8 U
Endrin aldehyde	ug/kg	1.6 U	7.0 U	8.3 U	7.9 U	8.1 U	8.3 U	8.0 U
gamma-BHC (lindane)	ug/kg	2.2 U	9.6 U	11 U	11 U	11 U	11 U	11 U
gamma-Chlordane	ug/kg	1.5 NJ	6.6 U	7.8 U	7.5 U	7.6 U	7.8 U	7.5 U
Heptachlor epoxide	ug/kg	1.8 U	7.7 U	9.1 U	8.7 U	8.9 U	9.1 U	8.8 U
Toxaphene	ug/kg	31 U	130 U	160 U	150 U	160 U	160 U	150 U

Table 1

Summary of Detections - Comparison to Rsls
Floodplain Soil Samples - Adjacent to OU1
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-173**	**SS-173**	**SS-174**	**SS-174**	**SS-174**	**SS-175**	**SS-175**
Sample ID:		**S-38443-080818-JC-143**	**S-38443-080818-JC-144**	**S-38443-080818-JC-145**	**S-38443-080818-JC-146**	**S-38443-080818-JC-147**	**S-38443-080818-JC-148**	**S-38443-080818-JC-149**
Sample Date:		**8/8/2018**	**8/8/2018**	**8/8/2018**	**8/8/2018**	**8/8/2018**	**8/8/2018**	**8/8/2018**
Sample Depth:		**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**
						Duplicate		
Parameters	**Units**							
Herbicides								
2,4,5-TP (Silvex)	ug/kg	16 U	15 U	17 U	17 U	16 U	17 U	17 U
General Chemistry								
Cyanide (total)	mg/kg	0.22 U	0.19 U	0.22 U	0.24 U	0.21 U	0.25 U	0.23 U

Notes

J - Estimated concentration.

NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.

Table 2

Summary Of Detections - Comparison to ESVS
Floodplain Soil Samples - Adjacent to OU1
South Dayton Dump and Landfill Site
Moraine, Ohio

Parameters	Units	Detects	Soil Ecological Screening Levels a	Sediment Freshwater Ecological Screening Value b	Sediment Freshwater Ecological Screening Value (Wildlife Based) c	SS-164	SS-164	SS-165	SS-165
Sample ID:						S-38443-080618-JC-122	S-38443-080618-JC-123	S-38443-080618-JC-124	S-38443-080618-JC-125
Sample Date:						8/6/2018	8/6/2018	8/6/2018	8/6/2018
Sample Depth:						0.17-0.67 ft BGS	0.67-2.17 ft BGS	0.17-0.67 ft BGS	0.17-0.67 ft BGS Duplicate
Volatiles									
1,4-Dichlorobenzene	ug/kg	1	880	30	-	0.93 U	1.3 U	1.2 U	1.3 U
Acetone	ug/kg	6	1200	65	-	92[b]	31 U	29 U	32 U
Methylene chloride	ug/kg	1	210	18	-	13 U	18 U	17 U	18 U
Toluene	ug/kg	1	150	10	-	0.82 U	1.1 U	1.3 J	1.2 U
Semi-Volatiles									
2-Methylnaphthalene	ug/kg	25	-	20.2	-	110[b]	5.7 J	7.5 J	8.7
Acenaphthene	ug/kg	23	-	6.7	-	61[b]	1.1 U	5.4 J	6.0 J
Acenaphthylene	ug/kg	26	-	5.9	-	46[b]	6.2 J[b]	11[b]	11[b]
Anthracene	ug/kg	26	-	57	-	120[b]	6.6 J	20	21
Benzaldehyde	ug/kg	1	-	59	-	25 U	32 U	28 U	25 U
Benzo(a)anthracene	ug/kg	26	-	108	-	570[b]	39	100	110[b]
Benzo(a)pyrene	ug/kg	26	-	150	-	590[b]	50	120	120
Benzo(b)fluoranthene	ug/kg	26	-	190	-	1000[b]	70	190	200[b]
Benzo(g,h,i)perylene	ug/kg	26	-	170	-	440[b]	36	86	80
Benzo(k)fluoranthene	ug/kg	26	-	240	-	410[b]	28	76	73
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	18	20	180	-	130[a]	89 J[a]	61 U	56 U
Butyl benzylphthalate (BBP)	ug/kg	3	590	100	-	24 U	31 U	26 U	24 U
Carbazole	ug/kg	18	70	69	-	120[ab]	26 U	23 U	21 U
Chrysene	ug/kg	26	-	166	-	660[b]	47	120	120
Dibenz(a,h)anthracene	ug/kg	16	-	33	-	120[b]	0.92 U	0.79 U	0.72 U
Dibenzofuran	ug/kg	14	150	510	-	68	18 U	16 U	14 U
Di-n-butylphthalate (DBP)	ug/kg	13	11	11	-	36 J[ab]	59 J[ab]	37 J[ab]	24 U
Fluoranthene	ug/kg	26	-	423	-	1300[b]	79	220	220
Fluorene	ug/kg	24	-	77	-	48	0.74 U	6.4 J	4.7 J
Indeno(1,2,3-cd)pyrene	ug/kg	26	-	200	-	390[b]	29	77	72
Naphthalene	ug/kg	24	-	176	-	67	5.0 J	5.5 J	7.0 J
Phenanthrene	ug/kg	26	-	204	-	830[b]	34	87	79
Phenol	ug/kg	1	790	175	-	8.8 U	11 U	9.6 U	8.8 U
Pyrene	ug/kg	26	-	195	-	1100[b]	73	200[b]	200[b]
Metals									
Aluminum	mg/kg	26	-	25000	-	6200	6000	4800	5200
Antimony	mg/kg	26	0.27	2	-	0.63 J[a]	0.27 J	0.33 J[a]	0.37 J[a]
Arsenic	mg/kg	26	18	9.8	-	8.0	5.4	7.4	7.7
Barium	mg/kg	26	330	20	-	92[b]	85[b]	100[b]	110[b]
Beryllium	mg/kg	25	2.5	-	-	0.56	0.47	0.39	0.37
Cadmium	mg/kg	26	0.36	1	-	0.91[a]	0.46[a]	0.39[a]	0.41[a]
Calcium	mg/kg	26	-	-	-	74000	42000	85000	88000

Table 2

Summary Of Detections - Comparison to ESVS
Floodplain Soil Samples - Adjacent to OU1
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:						**SS-164**	**SS-164**	**SS-165**	**SS-165**
Sample ID:						**S-38443-080618-JC-122**	**S-38443-080618-JC-123**	**S-38443-080618-JC-124**	**S-38443-080618-JC-125**
Sample Date:						**8/6/2018**	**8/6/2018**	**8/6/2018**	**8/6/2018**
Sample Depth:						**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.17-0.67 ft BGS Duplicate**
Parameters	**Units**	**Detects**	**Soil Ecological Screening Levels a**	**Sediment Freshwater Ecological Screening Value b**	**Sediment Freshwater Ecological Screening Value (Wildlife Based) c**				
Chromium	mg/kg	26	23	43.4	-	19	12	10	11
Chromium III (trivalent)	mg/kg	26	26	-	-	19	11	10	11
Chromium VI (hexavalent)	mg/kg	6	0.34	-	-	0.53 U	**0.52 J[a]**	0.58 U	0.53 U
Cobalt	mg/kg	26	13	50	-	5.4	4.6	4.1	4.4
Copper	mg/kg	26	28	31.6	-	**35[ab]**	15	14	15
Iron	mg/kg	26	-	20000	-	14000	12000	11000	12000
Lead	mg/kg	26	11	35.8	-	**55[ab]**	**18[a]**	**20[a]**	**21[a]**
Magnesium	mg/kg	26	-	-	-	24000	18000	28000	27000
Manganese	mg/kg	26	220	460	-	**450[a]**	**440[a]**	**490[ab]**	**520[ab]**
Mercury	mg/kg	25	0.013	0.18	0.17	**0.079 J[a]**	0.028 U	**0.036 J[a]**	**0.040 J[a]**
Nickel	mg/kg	26	38	22.7	-	17	12	10	11
Potassium	mg/kg	26	-	-	-	940	850	1000	1100
Selenium	mg/kg	26	0.52	0.72	0.8	**1.1[abc]**	**0.82 J[abc]**	**0.87 J[abc]**	**0.85 J[abc]**
Silver	mg/kg	26	4.2	1	-	0.38	0.13 J	0.067 J	0.074 J
Sodium	mg/kg	26	-	-	-	93 J	82 J	95 J	94 J
Thallium	mg/kg	26	0.05	-	-	**0.20[a]**	**0.16 J[a]**	**0.15 J[a]**	**0.15 J[a]**
Vanadium	mg/kg	26	7.8	-	-	**17[a]**	**16[a]**	**14[a]**	**15[a]**
Zinc	mg/kg	26	4.6	121	-	**91[a]**	**49[a]**	**55[a]**	**59[a]**
PCBs									
Aroclor-1248 (PCB-1248)	ug/kg	1	-	-	-	27 U	33 U	28 U	27 U
Aroclor-1254 (PCB-1254)	ug/kg	20	-	-	-	280	57 J	26 U	26 U
Pesticides									
4,4'-DDE	ug/kg	2	-	1.4	-	8.6 U	2.1 U	1.7 U	1.7 U
4,4'-DDT	ug/kg	1	-	1.0	-	6.5 U	1.5 U	1.3 U	1.3 U
alpha-Chlordane	ug/kg	2	2.9	-	-	8.6 U	2.0 U	1.7 U	1.7 U
Endosulfan sulfate	ug/kg	1	6.5	0.7	-	7.3 U	1.7 U	1.5 U	1.5 U
Endrin aldehyde	ug/kg	2	-	-	-	8.9 J	1.8 U	1.5 U	1.5 U
gamma-BHC (lindane)	ug/kg	1	3.1	2.4	10	10 U	2.4 U	2.1 U	2.0 U
gamma-Chlordane	ug/kg	1	20	-	-	7.0 U	1.7 U	1.4 U	1.4 U
Heptachlor epoxide	ug/kg	1	0.15	2.5	-	8.2 U	2.0 U	1.7 U	1.6 U
Toxaphene	ug/kg	1	0.15	0.1	-	140 U	34 U	29 U	29 U
Herbicides									
2,4,5-TP (Silvex)	ug/kg	1	55	62	-	16 U	20 U	17 U	16 U
General Chemistry									
Cyanide (total)	mg/kg	1	0.1	-	-	0.19 U	0.26 U	0.22 U	0.22 U

Notes
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.

Table 2

Summary Of Detections - Comparison to ESVS
Floodplain Soil Samples - Adjacent to OU1
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-165**	**SS-166**	**SS-166**	**SS-167**	**SS-167**	**SS-168**	**SS-168**
Sample ID:		**S-38443-080618-JC-126**	**S-38443-080718-JC-127**	**S-38443-080718-JC-128**	**S-38443-080718-JC-129**	**S-38443-080718-JC-130**	**S-38443-080718-JC-131**	**S-38443-080718-JC-132**
Sample Date:		**8/6/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**
Sample Depth:		**0.67-1.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**
Parameters	**Units**							
Volatiles								
1,4-Dichlorobenzene	ug/kg	1.3 U	1.1 U	1.0 U	0.99 U	0.91 U	1.0 U	1.1 U
Acetone	ug/kg	31 U	27 U	24 U	45	**140[b]**	24 U	26 U
Methylene chloride	ug/kg	18 U	15 U	14 U	13 U	12 U	14 U	15 U
Toluene	ug/kg	1.1 U	0.99 U	0.89 U	0.86 U	0.80 U	0.88 U	0.96 U
Semi-Volatiles								
2-Methylnaphthalene	ug/kg	9.6	**31[b]**	17	6.8 J	0.54 U	13	**32[b]**
Acenaphthene	ug/kg	**35[b]**	**28[b]**	0.93 U	**8.5[b]**	0.82 U	**10[b]**	**12[b]**
Acenaphthylene	ug/kg	**12[b]**	**40[b]**	**23[b]**	**11[b]**	5.5 J	**37[b]**	**44[b]**
Anthracene	ug/kg	**99[b]**	**97[b]**	33	51	8.3	37	44
Benzaldehyde	ug/kg	28 U	49 J	28 U	25 U	25 U	30 U	29 U
Benzo(a)anthracene	ug/kg	**270[b]**	**410[b]**	**200[b]**	**130[b]**	38	**260[b]**	**290[b]**
Benzo(a)pyrene	ug/kg	**230[b]**	**450[b]**	**210[b]**	110	43	**320[b]**	**340[b]**
Benzo(b)fluoranthene	ug/kg	**370[b]**	**820[b]**	**310[b]**	160	50	**630[b]**	**600[b]**
Benzo(g,h,i)perylene	ug/kg	140	**260[b]**	**180[b]**	54	20	**210[b]**	**230[b]**
Benzo(k)fluoranthene	ug/kg	150	**260[b]**	160	71	23	**290[b]**	**280[b]**
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	63 U	**110[a]**	63 U	**68 J[a]**	55 U	**76 J[a]**	**130[a]**
Butyl benzylphthalate (BBP)	ug/kg	27 U	28 U	27 U	24 U	24 U	29 U	28 J
Carbazole	ug/kg	**84[ab]**	64	23 U	20 U	20 U	34 J	32 J
Chrysene	ug/kg	**270[b]**	**470[b]**	**230[b]**	120	40	**380[b]**	**360[b]**
Dibenz(a,h)anthracene	ug/kg	**38[b]**	**72[b]**	0.81 U	0.71 U	0.71 U	**50[b]**	**59[b]**
Dibenzofuran	ug/kg	30 J	31 J	16 U	14 U	14 U	17 U	16 U
Di-n-butylphthalate (DBP)	ug/kg	**34 J[ab]**	**34 J[ab]**	27 U	**41 J[ab]**	**43 J[ab]**	**30 J[ab]**	**44 J[ab]**
Fluoranthene	ug/kg	**650[b]**	**930[b]**	350	230	54	**620[b]**	**520[b]**
Fluorene	ug/kg	42	33	7.2 J	8.7	0.57 U	11	12
Indeno(1,2,3-cd)pyrene	ug/kg	130	**240[b]**	150	47	17	200	200
Naphthalene	ug/kg	7.2 J	27	15	10	8.6 U	11	23
Phenanthrene	ug/kg	**500[b]**	**450[b]**	110	120	18	180	190
Phenol	ug/kg	9.9 U	10 U	9.8 U	8.6 U	8.6 U	10 U	10 U
Pyrene	ug/kg	**560[b]**	**820[b]**	**340[b]**	**250[b]**	68	**550[b]**	**480[b]**
Metals								
Aluminum	mg/kg	5000	7500	8500	4900	3900	12000	14000
Antimony	mg/kg	**0.34 J[a]**	**1.3 J[a]**	**0.90 J[a]**	**0.29 J[a]**	0.15 J	**0.33 J[a]**	**0.71 J[a]**
Arsenic	mg/kg	**11[b]**	9.8	**10[b]**	8.9	6.3	**10[b]**	**12[b]**
Barium	mg/kg	**150[b]**	**140[b]**	**140[b]**	**88[b]**	**62[b]**	**150[b]**	**160[b]**
Beryllium	mg/kg	0.34	0.67	0.62	0.30	0.24 U	0.66	0.83
Cadmium	mg/kg	**0.38[a]**	**1.2[ab]**	**0.79[a]**	0.27	0.20	**0.78[a]**	**1.5[ab]**
Calcium	mg/kg	100000	72000	78000	85000	78000	58000	50000

Table 2

Summary Of Detections - Comparison to ESVS
Floodplain Soil Samples - Adjacent to OU1
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-165**	**SS-166**	**SS-166**	**SS-167**	**SS-167**	**SS-168**	**SS-168**
Sample ID:		**S-38443-080618-JC-126**	**S-38443-080718-JC-127**	**S-38443-080718-JC-128**	**S-38443-080718-JC-129**	**S-38443-080718-JC-130**	**S-38443-080718-JC-131**	**S-38443-080718-JC-132**
Sample Date:		**8/6/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**
Sample Depth:		**0.67-1.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**
Parameters	**Units**							
Chromium	mg/kg	11	18	16	9.3	7.6	23	**36[a]**
Chromium III (trivalent)	mg/kg	11	18	16	9.3	7.3	23	**36[a]**
Chromium VI (hexavalent)	mg/kg	0.59 U	1.5 U	0.30 U	0.26 U	**0.36 J[a]**	0.62 U	0.61 U
Cobalt	mg/kg	4.4	5.8	6.6	3.9	3.3	9.1	9.7
Copper	mg/kg	14	**42[ab]**	**33[ab]**	13	9.7	**31[a]**	**46[ab]**
Iron	mg/kg	12000	14000	16000	11000	8700	**24000[b]**	**25000[b]**
Lead	mg/kg	**18[a]**	**68[ab]**	**47[ab]**	**14[a]**	11	**41[ab]**	**64[ab]**
Magnesium	mg/kg	35000	24000	24000	23000	27000	20000	18000
Manganese	mg/kg	**690[ab]**	**470[ab]**	**550[ab]**	**390[a]**	**320[a]**	**650[ab]**	**610[ab]**
Mercury	mg/kg	**0.035 J[a]**	**0.13[a]**	**0.10 J[a]**	**0.054 J[a]**	**0.048 J[a]**	**0.086 J[a]**	**0.14[a]**
Nickel	mg/kg	11	17	18	10	9.1	**26[b]**	**32[b]**
Potassium	mg/kg	950	1200	1100	780	530	1900	1800
Selenium	mg/kg	**0.79 J[ab]**	**1.5[abc]**	**1.3[abc]**	**0.65 J[a]**	0.49 J	**1.6[abc]**	**1.6[abc]**
Silver	mg/kg	0.060 J	0.34	0.25	0.059 J	0.036 J	0.42	0.74
Sodium	mg/kg	130 J	93 J	89 J	87 J	89 J	89 J	88 J
Thallium	mg/kg	**0.15 J[a]**	**0.28[a]**	**0.27[a]**	**0.11 J[a]**	**0.18 J[a]**	**0.40[a]**	**0.49[a]**
Vanadium	mg/kg	**15[a]**	**20[a]**	**21[a]**	**13[a]**	**12[a]**	**28[a]**	**33[a]**
Zinc	mg/kg	**50[a]**	**140[ab]**	**110[a]**	**35[a]**	**28[a]**	**120[a]**	**150[ab]**
PCBs								
Aroclor-1248 (PCB-1248)	ug/kg	29 U	31 U	28 U	27 U	25 U	32 U	30 U
Aroclor-1254 (PCB-1254)	ug/kg	28 U	95	39 J	26 U	24 U	56 J	440
Pesticides								
4,4'-DDE	ug/kg	1.8 U	1.9 U	R	1.7 U	1.6 U	2.0 U	**2.4 NJ[b]**
4,4'-DDT	ug/kg	1.4 U	1.4 U	R	1.3 U	1.2 U	1.5 U	1.4 U
alpha-Chlordane	ug/kg	1.8 U	1.9 U	1.8 UJ	1.7 U	1.6 U	2.0 U	1.8 U
Endosulfan sulfate	ug/kg	1.6 U	1.6 U	R	1.4 U	1.4 U	1.7 U	**2.9 J[b]**
Endrin aldehyde	ug/kg	1.6 U	1.7 U	R	1.5 U	1.4 U	2.0 NJ	1.6 U
gamma-BHC (lindane)	ug/kg	2.2 U	2.3 U	R	2.0 U	1.9 U	2.4 U	2.2 U
gamma-Chlordane	ug/kg	1.5 U	1.6 U	R	1.4 U	1.3 U	1.6 U	1.5 U
Heptachlor epoxide	ug/kg	1.8 U	1.8 U	1.7 UJ	1.6 U	1.5 U	1.9 U	**2.8 NJ[ab]**
Toxaphene	ug/kg	30 U	32 U	30 U	28 U	26 U	33 U	31 U
Herbicides								
2,4,5-TP (Silvex)	ug/kg	18 U	17 U	17 U	15 U	15 U	18 U	19 U
General Chemistry								
Cyanide (total)	mg/kg	0.24 U	**0.27 J[a]**	0.24 U	0.19 U	0.20 U	0.23 U	0.25 U

Notes
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.

Table 2

Summary Of Detections - Comparison to ESVS
Floodplain Soil Samples - Adjacent to OU1
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-169**	**SS-169**	**SS-170**	**SS-170**	**SS-171**	**SS-171**	**SS-172**	**SS-172**
Sample ID:		**S-38443-080718-JC-134**	**S-38443-080718-JC-135**	**S-38443-080718-JC-136**	**S-38443-080718-JC-137**	**S-38443-080718-JC-138**	**S-38443-080718-JC-139**	**S-38443-080718-JC-141**	**S-38443-080718-JC-142**
Sample Date:		**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**
Sample Depth:		**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**
Parameters	**Units**								
Volatiles									
1,4-Dichlorobenzene	ug/kg	1.2 J	1.1 U	0.97 U	0.88 U	1.0 U	1.1 U	1.1 U	0.96 U
Acetone	ug/kg	29 U	26 U	23 U	21 U	25 U	26 U	25 U	23 U
Methylene chloride	ug/kg	17 U	15 U	13 U	12 U	14 U	15 U	15 U	**21 J[b]**
Toluene	ug/kg	1.1 U	0.96 U	0.85 U	0.77 U	0.92 U	0.95 U	0.93 U	0.84 U
Semi-Volatiles									
2-Methylnaphthalene	ug/kg	18	**35[b]**	**26[b]**	**62[b]**	**29[b]**	**42[b]**	13	**24[b]**
Acenaphthene	ug/kg	**26[b]**	**60[b]**	**31[b]**	**120[b]**	**45[b]**	**120[b]**	**16[b]**	**21[b]**
Acenaphthylene	ug/kg	**46[b]**	**50[b]**	**35[b]**	**56[b]**	**55[b]**	**80[b]**	**32[b]**	**41[b]**
Anthracene	ug/kg	**90[b]**	**100[b]**	**85[b]**	**170[b]**	**150[b]**	**1500[b]**	**60[b]**	**69[b]**
Benzaldehyde	ug/kg	28 U	29 U	29 U	54 U	56 U	110 U	28 U	28 U
Benzo(a)anthracene	ug/kg	**520[b]**	**500[b]**	**540[b]**	**820[b]**	**690[b]**	**1900[b]**	**380[b]**	**390[b]**
Benzo(a)pyrene	ug/kg	**590[b]**	**570[b]**	**610[b]**	**850[b]**	**750[b]**	**1600[b]**	**430[b]**	**430[b]**
Benzo(b)fluoranthene	ug/kg	**1100[b]**	**1000[b]**	**1100[b]**	**1400[b]**	**1400[b]**	**2700[b]**	**870[b]**	**860[b]**
Benzo(g,h,i)perylene	ug/kg	**340[b]**	**300[b]**	**300[b]**	**810[b]**	**380[b]**	**630[b]**	**240[b]**	**210[b]**
Benzo(k)fluoranthene	ug/kg	**410[b]**	**400[b]**	**410[b]**	**560[b]**	**570[b]**	**1100[b]**	**280[b]**	**290[b]**
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	**80 J[a]**	**150[a]**	**79 J[a]**	**150 J[a]**	130 U	230 U	**100[a]**	**120[a]**
Butyl benzylphthalate (BBP)	ug/kg	27 U	28 U	27 U	52 U	54 U	100 U	27 U	49 J
Carbazole	ug/kg	**72[ab]**	**85[ab]**	**77[ab]**	**180[ab]**	**110 J[ab]**	**280[ab]**	56 J	54 J
Chrysene	ug/kg	**680[b]**	**610[b]**	**700[b]**	**1000[b]**	**900[b]**	**1900[b]**	**520[b]**	**480[b]**
Dibenz(a,h)anthracene	ug/kg	**88[b]**	0.83 U	**86[b]**	**190[b]**	**110[b]**	**190[b]**	0.80 U	0.80 U
Dibenzofuran	ug/kg	22 J	30 J	25 J	94 J	39 J	89 J	16 J	17 J
Di-n-butylphthalate (DBP)	ug/kg	27 U	**29 J[ab]**	**36 J[ab]**	52 U	54 U	100 U	27 U	**33 J[ab]**
Fluoranthene	ug/kg	**1300[b]**	**1200[b]**	**1300[b]**	**2100[b]**	**1800[b]**	**4600[b]**	**950[b]**	**900[b]**
Fluorene	ug/kg	28	46	31	**83[b]**	60	**260[b]**	18	23
Indeno(1,2,3-cd)pyrene	ug/kg	**330[b]**	**290[b]**	**300[b]**	**690[b]**	**360[b]**	**640[b]**	**230[b]**	**210[b]**
Naphthalene	ug/kg	19	29	25	99	29	37	10	16
Phenanthrene	ug/kg	**480[b]**	**560[b]**	**510[b]**	**1400[b]**	**800[b]**	**2500[b]**	**350[b]**	**350[b]**
Phenol	ug/kg	9.8 U	10 U	10 U	19 U	20 U	37 U	15 J	9.7 U
Pyrene	ug/kg	**1100[b]**	**1000[b]**	**1100[b]**	**1800[b]**	**1600[b]**	**3900[b]**	**830[b]**	**790[b]**
Metals									
Aluminum	mg/kg	8600	11000	7600	9000	7400	6900	7900	9700
Antimony	mg/kg	0.24 J	**0.39 J[a]**	**0.40 J[a]**	**0.30 J[a]**	0.22 J	**0.28 J[a]**	0.21 J	0.24 J
Arsenic	mg/kg	7.7	**10[b]**	9.2	8.9	7.3	7.2	6.8	8.6
Barium	mg/kg	**120[b]**	**160[b]**	**110[b]**	**130[b]**	**110[b]**	**97[b]**	**110[b]**	**130[b]**
Beryllium	mg/kg	0.46	0.64	0.45	0.55	0.44	0.39	0.44	0.53
Cadmium	mg/kg	**0.74[a]**	**2.5[ab]**	**0.61[a]**	**1.9[ab]**	**0.54[a]**	**0.78[a]**	**0.49[a]**	**0.84[a]**
Calcium	mg/kg	76000	68000	88000	69000	83000	90000	79000	68000

Table 2

Summary Of Detections - Comparison to ESVS
Floodplain Soil Samples - Adjacent to OU1
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-169**	**SS-169**	**SS-170**	**SS-170**	**SS-171**	**SS-171**	**SS-172**	**SS-172**
Sample ID:		**S-38443-080718-JC-134**	**S-38443-080718-JC-135**	**S-38443-080718-JC-136**	**S-38443-080718-JC-137**	**S-38443-080718-JC-138**	**S-38443-080718-JC-139**	**S-38443-080718-JC-141**	**S-38443-080718-JC-142**
Sample Date:		**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**	**8/7/2018**
Sample Depth:		**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**
Parameters	**Units**								
Chromium	mg/kg	21	**54[ab]**	19	**43[a]**	16	22	17	23
Chromium III (trivalent)	mg/kg	21	**53[a]**	19	**43[a]**	16	21	17	23
Chromium VI (hexavalent)	mg/kg	0.59 U	**0.76 J[a]**	0.60 U	**0.43 J[a]**	0.59 U	**0.42 J[a]**	0.58 U	0.58 U
Cobalt	mg/kg	6.6	8.5	6.2	7.3	6.3	5.8	6.1	7.5
Copper	mg/kg	26	**60[ab]**	23	**45[ab]**	23	**31[a]**	21	28
Iron	mg/kg	17000	**22000[b]**	16000	18000	17000	16000	16000	19000
Lead	mg/kg	**36[ab]**	**92[ab]**	**34[a]**	**92[ab]**	**29[a]**	**44[ab]**	**27[a]**	**46[ab]**
Magnesium	mg/kg	24000	22000	25000	21000	25000	28000	25000	23000
Manganese	mg/kg	**520[ab]**	**610[ab]**	**500[ab]**	**550[ab]**	**520[ab]**	**470[ab]**	**460[a]**	**560[ab]**
Mercury	mg/kg	**0.078 J[a]**	**0.16[a]**	**0.068 J[a]**	**0.15[a]**	**0.062 J[a]**	**0.075 J[a]**	**0.060 J[a]**	**0.094 J[a]**
Nickel	mg/kg	20	**32[b]**	18	**28[b]**	17	20	17	**23[b]**
Potassium	mg/kg	1200	1400	1100	1000	1100	1000	1300	1500
Selenium	mg/kg	**1.3[abc]**	**1.4[abc]**	**1.2[abc]**	**1.3[abc]**	**1.3[abc]**	**1.1[abc]**	**1.1[abc]**	**1.3[abc]**
Silver	mg/kg	0.39	**1.3[b]**	0.28	0.97	0.20 J	0.41	0.19 J	0.52
Sodium	mg/kg	100 J	96 J	100 J	94 J	110 J	120 J	100 J	97 J
Thallium	mg/kg	**0.30[a]**	**0.40[a]**	**0.28[a]**	**0.33[a]**	**0.28[a]**	**0.23[a]**	**0.26[a]**	**0.34[a]**
Vanadium	mg/kg	**21[a]**	**27[a]**	**21[a]**	**22[a]**	**19[a]**	**18[a]**	**20[a]**	**23[a]**
Zinc	mg/kg	**100[a]**	**180[ab]**	**91[a]**	**140[ab]**	**90[a]**	**110[a]**	**85[a]**	**110[a]**
PCBs									
Aroclor-1248 (PCB-1248)	ug/kg	30 U	4600	29 U	150 U	31 U	28 U	28 U	30 U
Aroclor-1254 (PCB-1254)	ug/kg	110	290 U	79	860	65	150	60	70
Pesticides									
4,4'-DDE	ug/kg	1.9 U	19 U	1.8 U	9.2 U	**2.5 J[b]**	1.7 U	1.7 U	1.9 U
4,4'-DDT	ug/kg	1.4 U	14 U	1.4 U	6.9 U	1.4 U	1.3 U	1.3 U	1.4 U
alpha-Chlordane	ug/kg	1.9 U	19 U	1.8 U	9.1 U	1.9 U	1.7 U	1.7 U	1.9 U
Endosulfan sulfate	ug/kg	1.6 U	16 U	1.6 U	7.8 U	1.6 U	1.5 U	1.5 U	1.6 U
Endrin aldehyde	ug/kg	1.6 U	16 U	1.6 U	8.0 U	1.7 U	1.5 U	1.5 U	1.6 U
gamma-BHC (lindane)	ug/kg	2.2 U	**29 J[abc]**	2.2 U	11 U	2.3 U	2.1 U	2.1 U	2.2 U
gamma-Chlordane	ug/kg	1.5 U	15 U	1.5 U	7.5 U	1.6 U	1.4 U	1.4 U	1.5 U
Heptachlor epoxide	ug/kg	1.8 U	18 U	1.8 U	8.8 U	1.8 U	1.7 U	1.7 U	1.8 U
Toxaphene	ug/kg	31 U	310 U	30 U	150 U	32 U	29 U	**51 J[ab]**	31 U
Herbicides									
2,4,5-TP (Silvex)	ug/kg	18 U	**73 J[ab]**	17 U	17 U	18 U	16 U	17 U	17 U
General Chemistry									
Cyanide (total)	mg/kg	0.22 U	0.22 U	0.22 U	0.22 U	0.24 U	0.19 U	0.22 U	0.23 U

Notes
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.

Table 2

Summary Of Detections - Comparison to ESVS
Floodplain Soil Samples - Adjacent to OU1
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-173**	**SS-173**	**SS-174**	**SS-174**	**SS-174**	**SS-175**	**SS-175**
Sample ID:		**S-38443-080818-JC-143**	**S-38443-080818-JC-144**	**S-38443-080818-JC-145**	**S-38443-080818-JC-146**	**S-38443-080818-JC-147**	**S-38443-080818-JC-148**	**S-38443-080818-JC-149**
Sample Date:		**8/8/2018**	**8/8/2018**	**8/8/2018**	**8/8/2018**	**8/8/2018**	**8/8/2018**	**8/8/2018**
Sample Depth:		**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**
						Duplicate		
Parameters	**Units**							
Volatiles								
1,4-Dichlorobenzene	ug/kg	0.93 U	1.0 U	0.99 U	0.89 U	0.95 U	1.1 U	0.94 U
Acetone	ug/kg	22 J	64	24 U	21 U	38	25 U	22 U
Methylene chloride	ug/kg	13 U	14 U	14 U	12 U	13 U	14 U	13 U
Toluene	ug/kg	0.82 U	0.89 U	0.87 U	0.78 U	0.83 U	0.92 U	0.83 U
Semi-Volatiles								
2-Methylnaphthalene	ug/kg	**33[b]**	**34[b]**	15 J	16	**21[b]**	**27 J[b]**	11
Acenaphthene	ug/kg	**150[b]**	**22[b]**	**31[b]**	**36[b]**	**54[b]**	**45[b]**	4.5 J
Acenaphthylene	ug/kg	**38[b]**	**42[b]**	**38[b]**	**37[b]**	**37[b]**	**32 J[b]**	**11[b]**
Anthracene	ug/kg	**270[b]**	**150[b]**	**91[b]**	**110[b]**	**160[b]**	**100[b]**	18
Benzaldehyde	ug/kg	54 U	25 U	56 U	54 U	54 U	110 U	28 U
Benzo(a)anthracene	ug/kg	**960[b]**	**510[b]**	**590[b]**	**580[b]**	**780[b]**	**520[b]**	100
Benzo(a)pyrene	ug/kg	**1000[b]**	**580[b]**	**820[b]**	**750[b]**	**940[b]**	**610[b]**	130
Benzo(b)fluoranthene	ug/kg	**1500[b]**	**790[b]**	**1200[b]**	**1200[b]**	**1500[b]**	**980[b]**	190
Benzo(g,h,i)perylene	ug/kg	**490[b]**	**300[b]**	**560[b]**	**440[b]**	**530[b]**	**380[b]**	110
Benzo(k)fluoranthene	ug/kg	**350[b]**	220	**350[b]**	**360[b]**	**440[b]**	210	67
bis(2-Ethylhexyl)phthalate (DEHP)	ug/kg	**120 J[a]**	**160[a]**	**150 J[a]**	**140 J[a]**	**140 J[a]**	250 U	**120[a]**
Butyl benzylphthalate (BBP)	ug/kg	52 U	24 U	54 U	52 U	52 U	**110 J[b]**	27 U
Carbazole	ug/kg	**250[ab]**	57	**81 J[ab]**	**86 J[ab]**	**110 J[ab]**	95 U	23 U
Chrysene	ug/kg	**1100[b]**	**540[b]**	**840[b]**	**760[b]**	**1000[b]**	**630[b]**	140
Dibenz(a,h)anthracene	ug/kg	**110[b]**	**76[b]**	**110[b]**	**89[b]**	**140[b]**	3.3 U	17
Dibenzofuran	ug/kg	100 J	29 J	32 U	31 U	47 J	65 U	16 U
Di-n-butylphthalate (DBP)	ug/kg	52 U	**26 J[ab]**	54 U	52 U	52 U	110 U	27 U
Fluoranthene	ug/kg	**2800[b]**	**1400[b]**	**1600[b]**	**1700[b]**	**2400[b]**	**1300[b]**	200
Fluorene	ug/kg	**150[b]**	35	35	42	75	42	5.3 J
Indeno(1,2,3-cd)pyrene	ug/kg	**470[b]**	**290[b]**	**510[b]**	**390[b]**	**500[b]**	**370[b]**	90
Naphthalene	ug/kg	54	40	20	21	24	31 J	37 U
Phenanthrene	ug/kg	**1900[b]**	**630[b]**	**610[b]**	**730[b]**	**1300[b]**	**690[b]**	83
Phenol	ug/kg	19 U	8.8 U	20 U	19 U	19 U	40 U	9.7 U
Pyrene	ug/kg	**1700[b]**	**890[b]**	**1200[b]**	**1100[b]**	**1500[b]**	**940[b]**	190
Metals								
Aluminum	mg/kg	8100	4300	7000	5000	4800	7300	4300
Antimony	mg/kg	0.26 J	0.20 J	0.17 J	0.14 J	0.13 J	0.18 J	0.17 J
Arsenic	mg/kg	7.2	4.8	6.2	4.8	4.7	6.1	5.1
Barium	mg/kg	**110[b]**	**61[b]**	**110[b]**	**74[b]**	**77[b]**	**100[b]**	**89[b]**
Beryllium	mg/kg	0.73	0.30	0.45	0.31	0.31	0.48	0.31
Cadmium	mg/kg	**0.93[a]**	**0.82[a]**	**0.49[a]**	**0.42[a]**	**0.39[a]**	**0.89[a]**	**0.56[a]**
Calcium	mg/kg	72000	96000	83000	90000	93000	73000	100000

Table 2

Summary Of Detections - Comparison to ESVS
Floodplain Soil Samples - Adjacent to OU1
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		**SS-173**	**SS-173**	**SS-174**	**SS-174**	**SS-174**	**SS-175**	**SS-175**
Sample ID:		**S-38443-080818-JC-143**	**S-38443-080818-JC-144**	**S-38443-080818-JC-145**	**S-38443-080818-JC-146**	**S-38443-080818-JC-147**	**S-38443-080818-JC-148**	**S-38443-080818-JC-149**
Sample Date:		**8/8/2018**	**8/8/2018**	**8/8/2018**	**8/8/2018**	**8/8/2018**	**8/8/2018**	**8/8/2018**
Sample Depth:		**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**	**0.67-2.17 ft BGS**	**0.17-0.67 ft BGS**	**0.67-2.17 ft BGS**
						Duplicate		
Parameters	**Units**							
Chromium	mg/kg	**24[a]**	19	15	13	13	**24[a]**	12
Chromium III (trivalent)	mg/kg	24	18	15	13	13	24	12
Chromium VI (hexavalent)	mg/kg	0.57 U	**0.55 J[a]**	0.59 U	0.56 U	0.57 U	0.60 U	0.29 U
Cobalt	mg/kg	5.9	3.5 J	5.2	3.7	3.9	5.0	3.6
Copper	mg/kg	25	21 J	20	16	15	27	16
Iron	mg/kg	15000	9300 J	14000	10000	10000	13000	9300
Lead	mg/kg	**46[ab]**	**52 J[ab]**	**25[a]**	**27[a]**	**22[a]**	**54[ab]**	**19[a]**
Magnesium	mg/kg	24000	29000 J	25000	27000	27000	22000	22000
Manganese	mg/kg	**500[ab]**	**350 J[a]**	**510[ab]**	**370[a]**	**390[a]**	**410[a]**	**360[a]**
Mercury	mg/kg	**0.093 J[a]**	**0.057 J[a]**	**0.071 J[a]**	**0.056 J[a]**	**0.049 J[a]**	**0.10 J[a]**	**0.038 J[a]**
Nickel	mg/kg	19 J	12 J	14 J	11 J	11 J	17 J	10 J
Potassium	mg/kg	1000 J	520 J	910 J	610 J	610 J	810 J	460 J
Selenium	mg/kg	**0.97 J[abc]**	**0.53 J[a]**	**0.92 J[abc]**	**0.73 J[ab]**	**0.66 J[a]**	**0.80 J[ab]**	**0.59 J[a]**
Silver	mg/kg	0.55 J	0.31 J	0.19 J	0.20 J	0.21 J	0.49 J	0.18 J
Sodium	mg/kg	110 J	130 J	120 J	130 J	120 J	110 J	130 J
Thallium	mg/kg	**0.27[a]**	**0.15 J[a]**	**0.24[a]**	**0.17 J[a]**	**0.17 J[a]**	**0.23[a]**	**0.13 J[a]**
Vanadium	mg/kg	**19[a]**	**12[a]**	**17[a]**	**14[a]**	**14[a]**	**18[a]**	**12 J[a]**
Zinc	mg/kg	**97[a]**	**69[a]**	**75[a]**	**59[a]**	**59[a]**	**89[a]**	**40 J[a]**
PCBs								
Aroclor-1248 (PCB-1248)	ug/kg	30 U	26 U	30 U	29 U	30 U	30 U	29 U
Aroclor-1254 (PCB-1254)	ug/kg	110	360	51 J	63	53 J	300	120
Pesticides								
4,4'-DDE	ug/kg	1.9 U	8.1 U	9.6 U	9.2 U	9.4 U	9.5 U	9.2 U
4,4'-DDT	ug/kg	**17 J[b]**	6.1 U	7.2 U	6.9 U	7.0 U	7.1 U	6.9 U
alpha-Chlordane	ug/kg	2.5 J	**11 J[a]**	9.5 U	9.1 U	9.3 U	9.5 U	9.1 U
Endosulfan sulfate	ug/kg	1.6 U	6.9 U	8.1 U	7.8 U	7.9 U	8.1 U	7.8 U
Endrin aldehyde	ug/kg	1.6 U	7.0 U	8.3 U	7.9 U	8.1 U	8.3 U	8.0 U
gamma-BHC (lindane)	ug/kg	2.2 U	9.6 U	11 U	11 U	11 U	11 U	11 U
gamma-Chlordane	ug/kg	1.5 NJ	6.6 U	7.8 U	7.5 U	7.6 U	7.8 U	7.5 U
Heptachlor epoxide	ug/kg	1.8 U	7.7 U	9.1 U	8.7 U	8.9 U	9.1 U	8.8 U
Toxaphene	ug/kg	31 U	130 U	160 U	150 U	160 U	160 U	150 U
Herbicides								
2,4,5-TP (Silvex)	ug/kg	16 U	15 U	17 U	17 U	16 U	17 U	17 U
General Chemistry								
Cyanide (total)	mg/kg	0.22 U	0.19 U	0.22 U	0.24 U	0.21 U	0.25 U	0.23 U

Notes
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.

Appendix H
Phase 1 Soil Gas Investigation Results and Data Validation Reports

April 22, 2019 Reference No. 038443-330

Ms. Leslie Patterson
Remedial Project Manager
United States Environmental Protection Agency
Region V
77 West Jackson Boulevard
Mail Code SR-6J
Chicago, Illinois
60604

Ms. Tamara McPeek
Environmental Response and Revitalization
Ohio Environmental Protection Agency
Southwest District Office
401 East Fifth Street
Dayton, Ohio
45402

Dear Ms. Patterson and Ms. McPeek:

Re: Phase 1 Soil Gas Investigation Activities and Results - updated
South Dayton Dump and Landfill Site, Moraine, Ohio (Site)

This letter provides a summary and discussion of results from the Phase 1 soil gas investigation activities conducted at the South Dayton Dump and Landfill Site (Site) and vicinity, from January 2018 to January 2019. This letter is submitted as an interim deliverable for the purpose of providing the results of field monitoring and sampling of existing and new soil gas probes, pending completion of the remaining RI field sampling activities. GHD has prepared this letter on behalf of the Respondents to the Administrative Settlement Agreement and Order on Consent (ASAOC) for Remedial Investigation/Feasibility Study (RI/FS) of the Site, Docket No. V-W-16-C-011 (Respondents).

Soil Gas Probe Installation

GHD proposed installation of 18 soil gas probes in the Remedial Investigation/Feasibility Study (RI/FS) Work Plan for Operable Units 1 and 2 (RI/FS Work Plan), including 12 new soil gas probes and 6 soil gas probes reinstalled at existing locations to depths greater than 5 feet below ground surface (BGS).

A total of 11 new soil gas probe installations were completed and three soil gas probes were re-installed (to depths greater than 5 feet BGS) from January 2018 to January 2019 as described in the RI/FS Work Plan. In addition, one gas probe was re-installed since the original gas probe could not be found and one

other was re-installed since the original probe could not be monitored. The completed gas probe locations (shown on Figure 1) include, in sequence, the following:

- Soil gas probe GP32-18 was installed on January 10, 2018
- Soil gas probe GP30-18 was installed on January 17, 2018
- Soil gas probe GP33-18 was installed on January 23, 2018
- Existing soil gas probes GP19-09 and GP20-09 were abandoned and reinstalled at deeper depths as GP19-18 and GP20-18 on January 24, 2018
- Soil gas probe GP31-18 was installed on January 25, 2018
- Soil gas probe GP25-18 was installed on January 29, 2018
- Soil gas probe GP01-18 was installed on January 29, 2018, at an offset location to replace GP01-09
- Soil gas probes GP26-18 and GP28-18 were installed on January 31, 2018
- Soil gas probes GP27-18 and GP29-18 were installed on February 1, 2018
- Soil gas probe GP34-18 was installed on July 31, 2018
- Soil gas probe GP07-09 could not be located and was re-installed as GP07-18 on August 1, 2018 (in addition to the probes identified in the RI/FS Work Plan)
- Soil gas probe GP35-19 was installed on January 15, 2019
- Soil gas probe GP08-09 could not be monitored and was re-installed as GP08-19 on January 15, 2019

The soil gas probes proposed in the RI/FS Work Plan that remain to be completed include one location at an East River Road property (on non-responsive pending Site access (or identification of an alternate location). Three soil gas probes that were proposed to be reinstalled at depths greater than 5 feet BGS were not completed. Two of these locations (GP17-09 and GP18-09) at Valley Asphalt property are inaccessible due to ongoing operations at Valley Asphalt. Soil gas probes GP17-09 and GP18-09 were originally installed to assess landfill gas and soil vapor quality and the risk to any building occupants in the two nearby structures that have been demolished by Valley Asphalt, and they are therefore no longer required for that purpose. GHD will evaluate the need for additional soil gas probes on Valley Asphalt property during the soil gas data assessment that will be completed in accordance with the RI/FS Work. GHD attempted to reinstall existing soil gas probe GP03-09 (located on the central portion of the Site in Parcel 5177) at a depth greater than 5 feet BGS; however, this was not completed because the water table was present at a depth of 6.0 feet BGS. The soil gas probe locations completed to date and the one remaining proposed location per the RI/FS Work Plan are shown on Figure 1. A summary of the GHD soil gas probe completion details are provided in Table 1, which also lists EPA multi-level gas probes[1].

[1] GHD has requested soil gas completion details for the EPA multi-level soil gas probes from USEPA. GHD will determine the feasibility of measuring the depths of the EPA soil gas probes for confirmation purposes.

For each new and replacement soil gas probe, drilling and installation was completed using direct push technology, with GHD oversight. The soil core retrieved from each location was logged to determine stratigraphy to the required depth, approximately 20 feet BGS, and was used to establish the soil gas probe screen interval. The stratigraphic and instrumentation logs for each new and/or replacement soil gas probe location listed above are included in Attachment 1.

In accordance with the RI/FS Work Plan, GHD collected 16 soil samples from the gas probe borings and submitted to TestAmerica Laboratories in North Canton, Ohio Test for laboratory analysis of volatile organic compounds (VOCs), fraction of organic carbon (FoC) and grain size sieve analysis. Soil samples were collected from gas probe borings at the screened depth at all new and/or replacement soil gas probe locations, with the one exception. At GP28-18, a soil sample was collected from a depth of 15 to 16 feet BGS. Due to detection of perched water recorded to be present at 13 feet BGSs for VOCs and physical testing parameters are summarized in Table 2.

VOCs were detected in soil samples collected from 15 of the 16 soil gas probe locations; VOCs were not detected in the soil sample from GP34-18. Collectively, the detected VOCs in soil samples include benzene, toluene, ethylbenzene, xylenes (BTEX), vinyl chloride (VC), cis-1,2-dichloroethene (cis-1,2-DCE), trichloroethene (TCE), tetrachloroethene (PCE), 1,2,4-tricholorobenzene, 1,2-dichlorobenzene, 1,4-dichlorobenzene, 2-butanone, acetone, carbon disulfide, chlorobenzene, isopropyl benzene, methyl acetate, and methyl cyclohexane. The total detected VOC concentrations at 10 of 16 borings were less than 100 µg/kg. The soil borings with the greatest total detected VOC concentrations include GP01-18 (at Valley Asphalt property) and GP28-18 (in the central portion of the Site). At these two locations the total detected VOC concentrations were 100,000 and 3,350,000 µg/kg, respectively. The next three greatest total VOC concentrations were detected at GP27-18 (6,616 µg/kg), GP07-18 (3,827 µg/kg), and GP25-18 (2,000 µg/kg), and the total VOC concentrations at each of the remaining eleven locations were all less than 100 µg/kg.

Field Parameter Monitoring - 2018

Field parameter monitoring for organic vapors, carbon dioxide, oxygen, combustible gas (i.e., methane and other explosive gases), and hydrogen sulfide were completed in three monitoring rounds in 2018, as described in the RI/FS Work Plan. Field monitoring includes all accessible soil gas probes installed by GHD, which includes probes newly installed in 2018 and 2019 as well as probes installed prior to 2018, as shown on Figure 1. Three soil gas probes that were not accessible or not found were GP07-09; GP17-09; and GP18-09. The monitoring program identified in the RI/FS Work Plan also includes USEPA soil gas probes at six locations, identified as GP-1 and GP-3 through GP-7[2]. These locations include multi-level probes, totaling 17 discrete gas probe screen intervals.

[2] One USEPA soil gas probe location (GP-2) located adjacent to the DP&L transportation building and former UST area was not included in the field monitoring program based on USEPA approval of GHD's Technical Report: GP-2 Methane Monitoring Summary & Assessment, South Dayton Dump and Landfill Site and Revision 1, Addendum 2 of the VI Mitigation Work Plan, provided on December 12, 2016.

The field parameter monitoring rounds are described below:

Round 1 – March 2018

- Field parameter monitoring was completed at 28 GHD soil gas probes and 12 USEPA soil gas probes on March 21, 2018.
- Four soil gas probes (GP06-09, GP07-09, GP08-09, and USEPA GP-7) were inaccessible due to the presence of snow, vegetation, or stockpiled debris, and one soil gas probe (GP21-09) had insufficient gas flow. Two soil gas probes (GP17-09 and GP18-09) located on Valley Asphalt property were excluded since they are inaccessible, and were constructed to a depth less than 5 feet BGS.
- The results of the March 2018 soil gas field parameter monitoring round are provided in Attachment 2 - Table 1.

Round 2 – August/September 2018

- Field parameter monitoring was completed at 32 GHD soil gas probes and 9 USEPA soil gas probes on August 24, 2018.
- Pressure readings were completed at 33 GHD soil gas probe locations and 15 USEPA soil gas probes from September 4 to 6, 2018.
- Supplementary field monitoring was completed at eight GHD soil gas probe locations and five USEPA soil gas probes from September 4 to 6, 2018. This included measuring combustible gas concentrations using a LandTec GEM2000 with a filtering device to assist with differentiating methane from other explosive gases[3], in response to the unfiltered total combustible gas monitoring readings from August 24, 2018 (see Table 2b in Attachment 2).
- One soil gas probe (GP08-09) had insufficient gas flow and was not monitored. Two GHD soil gas probes (GP17-09 and GP18-09) located on Valley Asphalt property were not included for the same reasons noted above for the first monitoring round.
- The results of the August/September 2018 soil gas field parameter monitoring round are provided in Attachment 2 - Tables 2a and 2b.

Round 3 – November 2018

- Field parameter monitoring was completed at 30 GHD soil gas probes and 12 USEPA soil gas probes on November 12 to 14, 2018.
- Two soil gas probes (GP09-09 and USEPA GP-6) were inaccessible due to the presence of vegetation or stockpiled debris. Four soil gas probes (GP03-09, GP08-09, USEPA GP-1 (south), and USEPA GP-3 (southeast)) had insufficient gas flow and were not monitored. Two GHD soil gas

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[3] GHD has completed filtered and unfiltered combustible gas readings since March 2012 at USEPA's request in order to monitor methane and total combustible gases, respectively. The filtering device removes interferences from other potentially present hydrocarbons while allowing methane to pass through to the combustible gas meter.

probes (GP17-09 and GP18-09) located on Valley Asphalt property were not included for the same reasons noted above for the first and second monitoring rounds.

- The results of the November 2018 soil gas field parameter monitoring round are provided in Attachment 2 - Table 3.

GHD conducted a review of previous and current field monitoring results for combustible gases (i.e., both unfiltered and filtered). Figures 2 and 3 illustrate monitoring results from 2009 through 2016, and from 2018, respectively. Each figure shows monitoring results for locations where combustible gas readings were greater than the lower explosive limit for methane (5%), on at least one occasion. As shown on Figure 2, the pre-2018 results indicate presence of total combustible gases and methane at six on-site soil gas probes[4], and one off-site soil gas probe[5] (GP-2) exceeding the 5% threshold. The 2018 results shown on Figure 3 indicate the presence of total combustible gases and methane exceeding 5% at three locations within the northern and central portions of the Site, including GP01-18 (at Valley Asphalt property)[6], GP02-09 and GP28-18 (both located in the central portion of the site). Total combustible gases was not detected above the 5% threshold at any of the remaining soil gas probe locations, with the exception of GP07-18 (at Jim City property). At GP07-18, a significant difference between the unfiltered and filtered results was identified (5.2% and 0.2%, respectively), and the filtered results are well below the 5% threshold for methane. This finding indicates that the instrument readings for total combustible gases (unfiltered methane) are affected by the presence of other hydrocarbons, and methane is not present above the 5% threshold, at GP07-18.

Field parameter monitoring for organic vapors, carbon dioxide, oxygen, and hydrogen sulfide completed in three monitoring rounds in 2018 are summarized below:

- Organic vapor readings, measured using a photoionization detector (PID), were typically less than 25 ppm during all three rounds. The greatest readings were recorded at GP07-18 located at Jim City property (up to 205 ppm, in August/September 2018).
- Carbon dioxide levels ranged from 0 to 16.4%, and oxygen levels ranged from 0 to 21.4%.
- Hydrogen sulfide was detected at 8 soil gas probe locations in the August/September monitoring round (max of 8 ppm at GP02-09), and at 5 soil gas probe locations in the November 2018 monitoring round (max of 4.3 ppm at USEPA GP-7[west]). Hydrogen sulfide was not detected during the March 2018 monitoring round.

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4 Two of the on-site soil gas probes (GP17-09 and GP18-09) that exhibited elevated combustible gas readings in previous monitoring were not found in 2018 and hence were not monitored.

5 The off-site location (GP-2) is situated adjacent to the Dayton Power & Light facility. The soil gas impacts measured at GP-2 were determined to be unrelated to the SDD Site. See GHD's Technical Report: GP-2 Methane Monitoring Summary & Assessment, South Dayton Dump and Landfill Site, provided on December 12, 2016.

6 GHD notes that two soil gas probes at Valley Asphalt that are no longer accessible (GP17-09 and GP18-09) identified the presence of combustible gas prior to 2018 but current conditions have not been assessed.

Soil Gas Probe Sampling and Analysis

GHD completed soil gas sampling from August 14 to August 24, 2018 using 32 GHD soil gas probes in accordance with RI/FS Work Plan procedures. GHD submitted 38 samples (including one trip blank, one ambient air sample, and 4 field duplicates), to TestAmerica Knoxville for VOC (TO-15) analysis. GHD did not collect a sample from one GHD soil gas probe (GP08-09) due to insufficient gas flow. Field notes are provided in Attachment 3.

The validated analytical results are included in Tables 3 and 4, with screening criteria for commercial and residential land use, respectively. The analytical results indicate variable presence of VOCs. The locations with the greatest detected VOC concentrations include GP07-18 (Jim City) and GP01-18 (Valley Asphalt), and significantly lower concentrations were detected at the remaining locations. The spatial distribution of the VOC results is indicative of localized areas of soil gas impact at GP01-18 and GP07-18 potentially related to operations being conducted within the respective properties. Further discussion regarding the distribution of individual VOCs and comparison to screening criteria is provided below.

Comparison of Analytical Results to Screening Criteria

As noted above, Tables 3 and 4 also include generic screening criteria for commercial land use and residential land use, respectively. The screening criteria include:

- USEPA sub-slab or exterior soil gas concentration Vapor Intrusion Screening Levels (VISLs) conservatively calculated at the lower of a target cancer risk of $1x10^{-6}$ and a hazard quotient (HQ) of 0.1.
- Ohio EPA response action levels and removal management levels, from the Ohio EPA Guidance Document titled "*Recommendations Regarding Response Action Levels and Timeframes for Common Contaminants of Concern at Vapor Intrusion Sites in Ohio"*, dated August 2016.

As shown in Table 3, detected VOC concentrations exceeded the generic commercial criteria at the following locations:

- Valley Asphalt property: GP01-18 (chlorobenenze, vinyl chloride, benzene, ethylbenzene) and GP32-18 (TCE)
- Dryden Road businesses:
  - GP16-09 (vinyl chloride), GP19-18 (vinyl chloride), and GP20-18 (TCE) at Parcel 5171 (B&G Equipment & Truck Repair)
  - GP15-09 (TCE, 1,1-DCA) and GP31-18 (TCE, chloroform) at Parcel 5172 (tenants - S&J Precision, Overstreet Painting, NexGen Vending)
  - GP14-09 (TCE) at Parcel 5173 (tenant - Sim Trainer)
  - GP13-09 (1,1-DCA) at Parcel 5174 (tenant - Command Roofing)
  - GP12-09 (TCE) and GP23-13 (TCE) at Parcel 5175 (tenant – D. Dickinson Construction)

- The undeveloped central portion of the site, being part of Parcel 5177: GP03-09 (TCE), GP26-18 (TCE), GP27-18 (1,4-Dichlorobenzene, Benzene, Chlorobenzene), GP28-18 (Benzene, Chlorobenzene, vinyl chloride)
- Southern portion of site:
  - GP07-18 (1,2,4-Trimethylbenzene, BTEX, cyclohexane, hexane, isopropyl benzene, n-heptane) at Jim City property
  - GP09-09 (TCE) and GP10-09 (TCE) at [redacted] non-responsive

The soil gas probes that were sampled and had no detections that exceeded the generic commercial criteria include: GP02-09, GP04-09, GP05-09, GP06-09, GP11-09, GP21-09, GP22-13, GP24A-13, GP24B-13, GP25-18, GP29-18, GP30-18, GP33-18 and GP34-18 (see Table 3).

In addition to the above locations, eight other locations had detected concentrations exceeding the generic residential criteria (see Table 4), i.e., 26 of 32 soil gas probe locations had detected concentrations exceeding the generic residential criteria. The soil gas probes that were sampled and had no detections that exceeded the generic residential criteria include: GP04-09, GP06-09, GP11-09, GP24B-13, GP30-18, and GP34-18.

As indicated above, TCE is the most frequently detected and broadly distributed VOC with concentrations exceeding commercial screening criteria in August 2018 samples from the following soil gas probes: GP03-09; GP09-09; GP10-09; GP12-09; GP14-09; GP15-09 (also contains 1,1-Dichloroethane [1,1-DCA]); GP20-18; GP23-13; GP26-18; GP31-18 (also contains Chloroform); and GP32-18. The maximum detected TCE concentrations in August 2018 samples were identified at Parcel 5172 including GP31-18 (27,000 µg/m^3) and GP15-09 (3,400 µg/m^3); and Parcel 5171 at GP20-18 (6,700 µg/m^3). Other VOCs that were detected at concentrations exceeding commercial screening criteria exhibit a more isolated distribution, for example, vinyl chloride at four soil gas probes (maximum 2,500 µg/m^3) and chlorobenzene at three soil gas probes (maximum 110,000 µg/m^3). A distinctly different VOC profile was observed in the soil gas sample collected from Parcel 3753 (GP07-18), which identified exceedances of BTEX, hexane, n-heptane, 1,2,4-trimethylbenzene, cyclohexane, and isopropyl benzene; several of these compounds/contaminants are related to fuels and petroleum substances.

Discussion and Recommendations

Based on current land use, commercial activities are conducted on various property parcels within OU1. Potential residential exposure within OU1 is limited to one location, i.e., the elevated mobile home structure located on Parcel [redacted] non-responsive and the nearest soil gas probe is GP09-09. The soil gas sample collected in August 2018 from GP09-09 contained TCE at a concentration of 690 µg/m^3, which exceeds the USEPA VISL and the Ohio action levels for commercial and residential use. No other VOCs were detected at concentrations above commercial or residential screening criteria at GP09-09 in the August 2018 sample.

The previous sampling results at GP09-09 (in 2009) also indicate the presence of TCE at a concentration of 2,000 µg/m^3, which exceeds the USEPA VISL and the Ohio action levels for commercial and residential use. In 2009 Respondents and USEPA agreed that no further action was required for any of the residential and/or commercial buildings on [redacted]. The results from the 2012 crawl space air sample and duplicate sample at the mobile home structure (0.12 µg/m^3/ ND(0.16) µg/m^3) (CRA, Vapor Intrusion Investigation Summary Report. December 2012) did not exceed the then-current indoor air criteria that were conservatively identified as the applicable criteria[7] and are less than the current USEPA Residential Air RSL (0.21 µg/m^3). In order to assess current conditions and subject to agreement by the property owner, GHD proposes to collect an air sample from the crawl space at the mobile home structure during the summer of 2019 (in conjunction with the July vapor intrusion sampling event).

As noted above, other soil gas probe sample locations within areas of commercial land use in OU1 have detected VOC concentrations above screening criteria based on commercial land use, i.e., Valley Asphalt, Dryden Road businesses, and Jim City. Valley Asphalt has already implemented a VI mitigation program within their property, with USEPA oversight. The VI mitigation program implemented by the Respondents in 2013 addresses the Dryden Road business locations.

Jim City property was not included in the 2012 VI study conducted by the Respondents. The 2009 analytical results for GP07-09 did not indicate any exceedances of applicable criteria[8], which included comparison to residential criteria. Landfill gas/soil vapor probe GP07-09 could not be located in 2018, and was replaced with GP07-18. Unlike GP07-09, the soil vapor sample from GP07-18 contained benzene, toluene, ethylbenzene, xylenes (BTEX), hexane, and n-heptane at concentrations greater than USEPA VISLs for sub-slab from commercial structures; these compounds/contaminants are related to fuels and appear to be unrelated to the SDD site. GHD confirmed with the property owner that the building adjacent to GP07-18 (located on Parcel 3256) is used for equipment storage only.

Based on the above, GHD recommends the following:

- Regarding Parcel [redacted] property), inform the property owner of the findings based on the 2018 soil gas sampling results
- Regarding Parcel 3753 (Jim City property), inform the property owner of the findings based on the 2018 soil gas sampling results
- Complete the installation of the proposed soil gas probe within the East River Road property subject to obtaining property access or selection of a suitable alternate location
- Collect crawl space and outdoor ambient air samples from [redacted] structure) during the July VI sampling event, subject to property owner agreement.

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7 Vapor Intrusion Investigation Summary Report. CRA, December 2012 (38443 Report 17)

8 "Results of the Landfill Gas/Soil Vapor Investigation", Conestoga-Rovers & Associates (CRA, now GHD), January 11, 2010 (038443Cibu-69)

- Collect soil gas sample from GP08-19 and GP35-19 for analyses of VOCs during the July VI sampling event.
- Complete the soil gas data assessment in accordance with the RI/FS Work Plan

Should you have any questions on the above, please do not hesitate to contact us.

Sincerely,

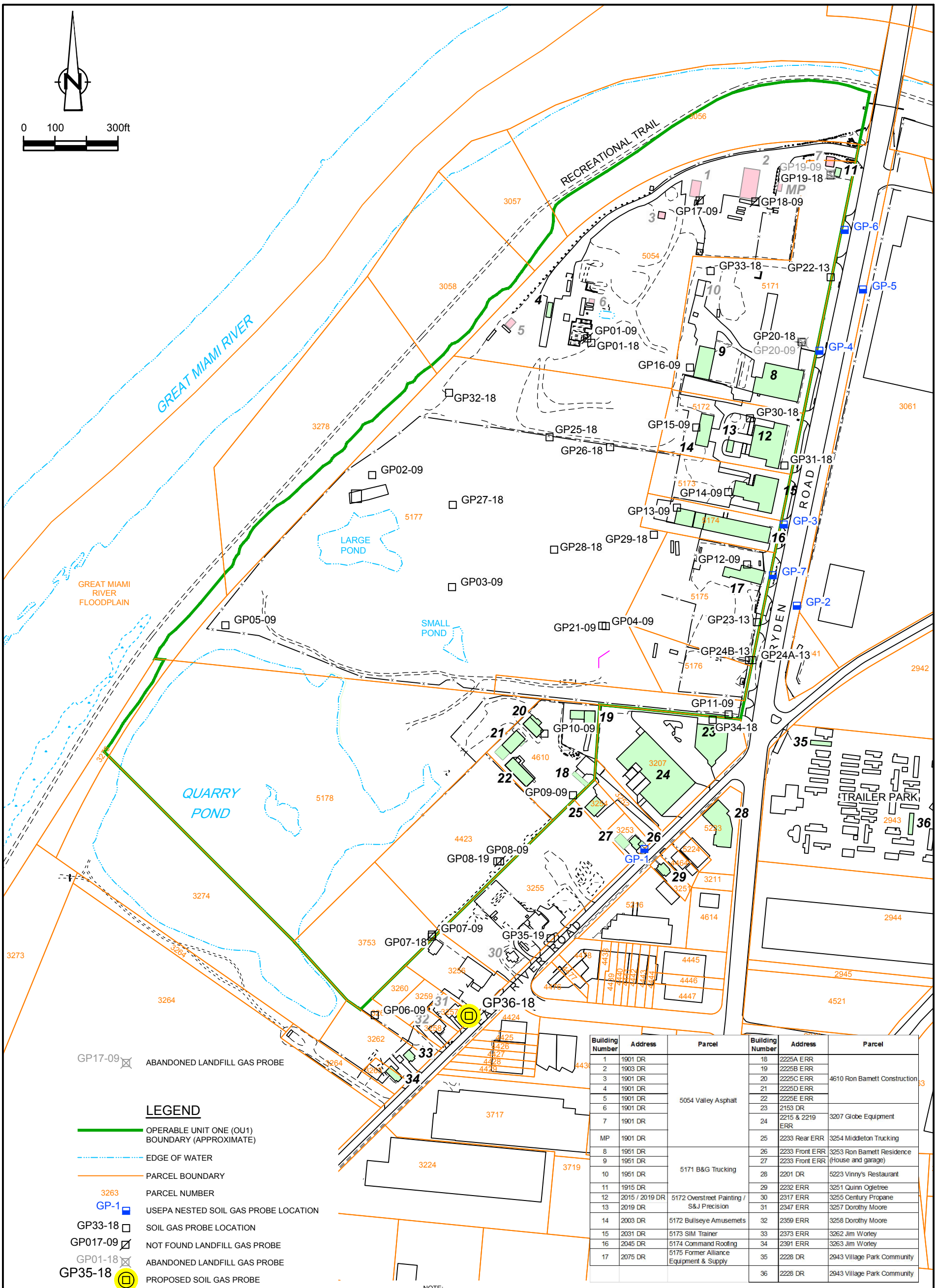
GHD

Julian Hayward

JH/kf/8

Encl.

cc: (all by pdf) Ken Brown, ITW
Bryan Heath, NCR
Wendell Barner, Barner Consulting
Jim Campbell, EMI
Andrew Dorn, ITW
Brett Fishwild, Jacobs
Valerie Chan, GHD



Building Number	Address	Parcel	Building Number	Address	Parcel
1	1901 DR	5054 Valley Asphalt	18	2225A ERR	4610 Ron Barnett Construction
2	1903 DR		19	2225B ERR	
3	1901 DR		20	2225C ERR	
4	1901 DR		21	2225D ERR	
5	1901 DR		22	2225E ERR	
6	1901 DR		23	2153 DR	
7	1901 DR		24	2215 & 2219 ERR	3207 Globe Equipment
MP	1901 DR		25	2233 Rear ERR	3254 Middleton Trucking
8	1951 DR	5171 B&G Trucking	26	2233 Front ERR	3253 Ron Barnett Residence (House and garage)
9	1951 DR		27	2233 Front ERR	
10	1951 DR		28	2201 DR	5223 Vinny's Restaurant
11	1915 DR		29	2232 ERR	3251 Quinn Ogletree
12	2015 / 2019 DR	5172 Overstreet Painting / S&J Precision	30	2317 ERR	3255 Century Propane
13	2019 DR		31	2347 ERR	3257 Dorothy Moore
14	2003 DR	5172 Bullseye Amusemets	32	2359 ERR	3258 Dorothy Moore
15	2031 DR	5173 SIM Trainer	33	2373 ERR	3262 Jim Worley
16	2045 DR	5174 Command Roofing	34	2391 ERR	3263 Jim Worley
17	2075 DR	5175 Former Alliance Equipment & Supply	35	2228 DR	2943 Village Park Community
			36	2228 DR	2943 Village Park Community

NOTE:
CRITERIA FOR METHANE IS 5%

figure 1

SOIL GAS PROBE LOCATIONS
SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

SOURCES:
THE PAYNE FIRM, INC., PROJECT 0279.44.05, FIGURE 1, DATED 9/12/05;
TETRA TECH EM INC., PROJECT L0312006-SOUTH DAYTON DUMP, FIGURE 2, SITE LAYOUT, 05/25/2004;
CITY OF MORAINE.
ABRAMS AERIAL SURVEY INC. PROJECT 38443, AASI 29610, 04/02/2008

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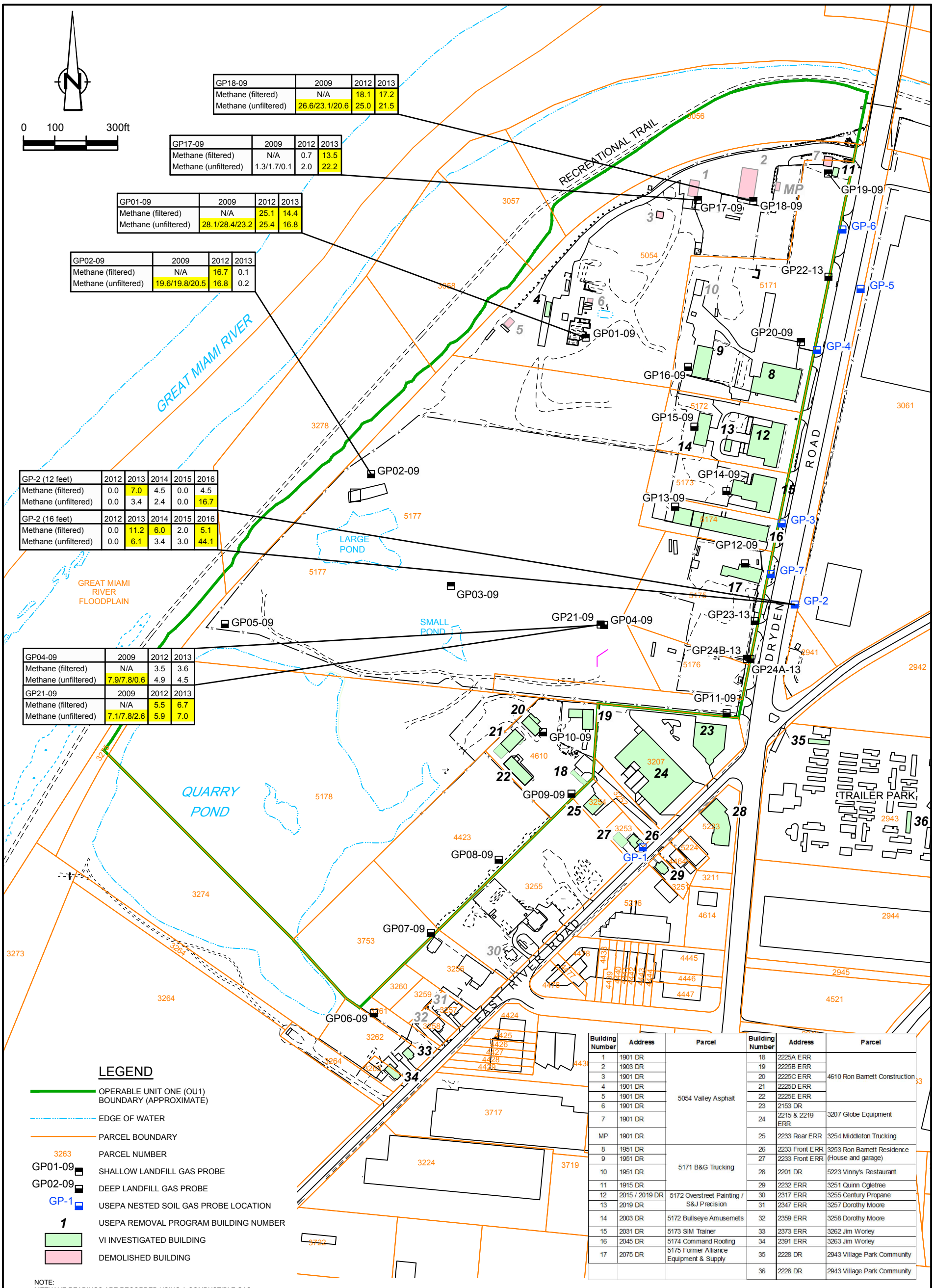

GP18-09	2009	2012	2013
Methane (filtered)	N/A	18.1	17.2
Methane (unfiltered)	26.6/23.1/20.6	25.0	21.5

GP17-09	2009	2012	2013
Methane (filtered)	N/A	0.7	13.5
Methane (unfiltered)	1.3/1.7/0.1	2.0	22.2

GP01-09	2009	2012	2013
Methane (filtered)	N/A	25.1	14.4
Methane (unfiltered)	28.1/28.4/23.2	25.4	16.8

GP02-09	2009	2012	2013
Methane (filtered)	N/A	16.7	0.1
Methane (unfiltered)	19.6/19.8/20.5	16.8	0.2

GP-2 (12 feet)	2012	2013	2014	2015	2016
Methane (filtered)	0.0	7.0	4.5	0.0	4.5
Methane (unfiltered)	0.0	3.4	2.4	0.0	16.7

GP-2 (16 feet)	2012	2013	2014	2015	2016
Methane (filtered)	0.0	11.2	6.0	2.0	5.1
Methane (unfiltered)	0.0	6.1	3.4	3.0	44.1

GP04-09	2009	2012	2013
Methane (filtered)	N/A	3.5	3.6
Methane (unfiltered)	7.9/7.8/0.6	4.9	4.5

GP21-09	2009	2012	2013
Methane (filtered)	N/A	5.5	6.7
Methane (unfiltered)	7.1/7.8/2.6	5.9	7.0

Building Number	Address	Parcel	Building Number	Address	Parcel
1	1901 DR	5054 Valley Asphalt	18	2225A ERR	4610 Ron Barnett Construction
2	1903 DR		19	2225B ERR	
3	1901 DR		20	2225C ERR	
4	1901 DR		21	2225D ERR	
5	1901 DR		22	2225E ERR	
6	1901 DR		23	2153 DR	3207 Globe Equipment
7	1901 DR		24	2215 & 2219 ERR	
MP	1901 DR		25	2233 Rear ERR	3254 Middleton Trucking
8	1951 DR	5171 B&G Trucking	26	2233 Front ERR	3253 Ron Barnett Residence (House and garage)
9	1951 DR		27	2233 Front ERR	
10	1951 DR		28	2201 DR	5223 Vinny's Restaurant
11	1915 DR		29	2232 ERR	3251 Quinn Ogletree
12	2015 / 2019 DR	5172 Overstreet Painting / S&J Precision	30	2317 ERR	3255 Century Propane
13	2019 DR		31	2347 ERR	3257 Dorothy Moore
14	2003 DR	5172 Bullseye Amusemets	32	2359 ERR	3258 Dorothy Moore
15	2031 DR	5173 SIM Trainer	33	2373 ERR	3262 Jim Worley
16	2045 DR	5174 Command Roofing	34	2391 ERR	3263 Jim Worley
17	2075 DR	5175 Former Alliance Equipment & Supply	35	2228 DR	2943 Village Park Community
			36	2228 DR	2943 Village Park Community

NOTE:
METHANE READINGS ARE RECORDED USING A COMBUSTIBLE GAS METER (LANDTEC GEM 2000) AND ARE POTENTIALLY AFFECTED BY OTHER EXPLOSIVE GASES, IF PRESENT. FOR PURPOSES OF THIS FIGURE THE INSTRUMENT READINGS GREATER THAN THE LOWER EXPLOSIVE LIMIT FOR METHANE (5%) ARE HIGHLIGHTED.

SOURCES:
THE PAYNE FIRM, INC., PROJECT 0279.44.05, FIGURE 1, DATED 9/12/05;
TETRA TECH EM INC., PROJECT L0312006-SOUTH DAYTON DUMP, FIGURE 2, SITE LAYOUT, 05/25/2004;
CITY OF MORAINE.
ABRAMS AERIAL SURVEY INC. PROJECT 38443, AASI 29610, 04/02/2008

figure 2

2009-2016 SOIL GAS RESULTS - METHANE >5%
SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

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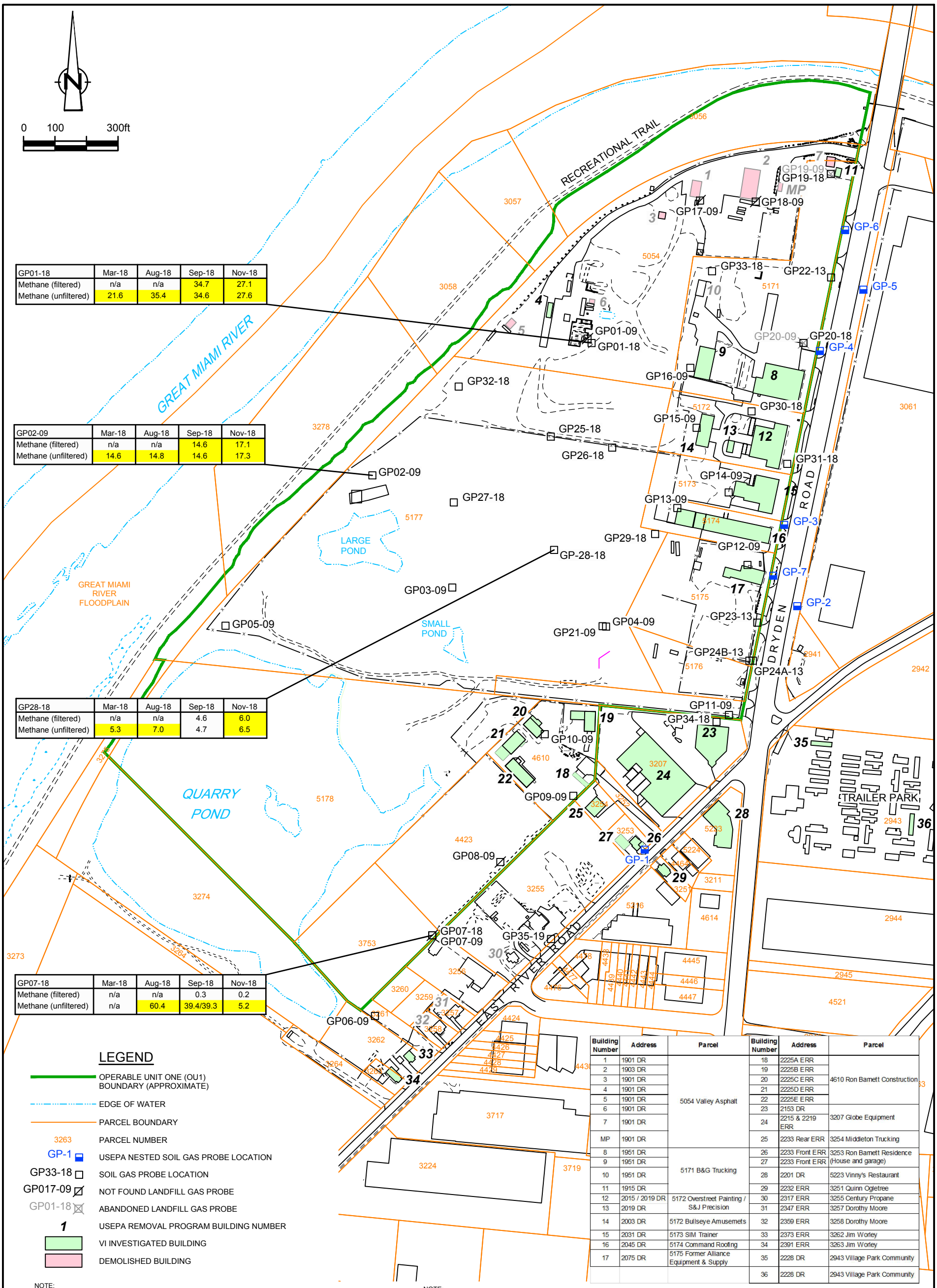

GP01-18	Mar-18	Aug-18	Sep-18	Nov-18
Methane (filtered)	n/a	n/a	34.7	27.1
Methane (unfiltered)	21.6	35.4	34.6	27.6

GP02-09	Mar-18	Aug-18	Sep-18	Nov-18
Methane (filtered)	n/a	n/a	14.6	17.1
Methane (unfiltered)	14.6	14.8	14.6	17.3

GP28-18	Mar-18	Aug-18	Sep-18	Nov-18
Methane (filtered)	n/a	n/a	4.6	6.0
Methane (unfiltered)	5.3	7.0	4.7	6.5

GP07-18	Mar-18	Aug-18	Sep-18	Nov-18
Methane (filtered)	n/a	n/a	0.3	0.2
Methane (unfiltered)	n/a	60.4	39.4/39.3	5.2

LEGEND

- OPERABLE UNIT ONE (OU1) BOUNDARY (APPROXIMATE)
- EDGE OF WATER
- PARCEL BOUNDARY
- 3263 PARCEL NUMBER
- GP-1 USEPA NESTED SOIL GAS PROBE LOCATION
- GP33-18 SOIL GAS PROBE LOCATION
- GP017-09 NOT FOUND LANDFILL GAS PROBE
- GP01-18 ABANDONED LANDFILL GAS PROBE
- 1 USEPA REMOVAL PROGRAM BUILDING NUMBER
- VI INVESTIGATED BUILDING
- DEMOLISHED BUILDING

Building Number	Address	Parcel	Building Number	Address	Parcel
1	1901 DR	5054 Valley Asphalt	18	2225A ERR	4610 Ron Barnett Construction
2	1903 DR		19	2225B ERR	
3	1901 DR		20	2225C ERR	
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			36	2228 DR	2943 Village Park Community

NOTE:
METHANE READINGS ARE RECORDED USING A COMBUSTIBLE GAS METER (LANDTEC GEM 2000) AND ARE POTENTIALLY AFFECTED BY OTHER EXPLOSIVE GASES, IF PRESENT. FOR PURPOSES OF THIS FIGURE THE INSTRUMENT READINGS GREATER THAN THE LOWER EXPLOSIVE LIMIT FOR METHANE (5%) ARE HIGHLIGHTED.

NOTE:
CRITERIA FOR METHANE IS 5%

figure 3

2018 SOIL GAS RESULTS - METHANE >5%
SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

GHD

SOURCES:
THE PAYNE FIRM, INC., PROJECT 0279.44.05, FIGURE 1, DATED 9/12/05;
TETRA TECH EM INC., PROJECT L0312006-SOUTH DAYTON DUMP, FIGURE 2, SITE LAYOUT, 05/25/2004;
CITY OF MORAINE.
ABRAMS AERIAL SURVEY INC. PROJECT 38443, AASI 29610, 04/02/2008

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Table 1

Investigative Location Completion Details
South Dayton Dump and Landfill Site
Moraine, Ohio

Location Identification	Type	Coordinates [1] Easting	Coordinates [1] Northing	Ground Surface Elevation [2] (ft AMSL)	Screened Interval ft bgs			Screened Interval ft AMSL			Bottom of Hole Depth ft bgs	Bottom of Hole Depth ft AMSL	Stratigraphy Description of Screened Interval	Notes
GP-1	gas probe	1485134.68	632491.37											USEPA soil gas probe. Construction details have been requested.
GP-2	gas probe	1485618.91	633264.65											USEPA soil gas probe. Construction details have been requested.
GP-3	gas probe	1485577.43	633522.98											USEPA soil gas probe. Construction details have been requested.
GP-4	gas probe	1485690.87	634075.08											USEPA soil gas probe. Construction details have been requested.
GP-5	gas probe	1485829.14	634269.86											USEPA soil gas probe. Construction details have been requested.
GP-6	gas probe	1485771.07	634459.12											USEPA soil gas probe. Construction details have been requested.
GP-7	gas probe	1485542.87	633361.35											USEPA soil gas probe. Construction details have been requested.
GP01-09	gas probe	1484953.26	634114.42	736.47	3	to	4	733.47	to	732.47	25	711.47	silt (fill), sand and gravel	
GP01-18	gas probe	1484966.01	634100.25	737.67	6	to	7	731.67	to	730.67	20	717.67	sandy clay (fill)	
GP02-09	gas probe	1484270.12	633680.04	723.81	7	to	8	716.81	to	715.81	20	703.81	fill, foundary sand	
GP03-09	gas probe	1484523.78	633323.95	714.95	4	to	5	710.95	to	709.95	15	699.95	sand	
GP04-09	gas probe	1485011.94	633199.83	727.42	12	to	13	715.42	to	714.42	20	707.42	sand	
GP05-09	gas probe	1483803.74	633202.65	725.84	7	to	8	718.84	to	717.84	20	705.84	sand and gravel (fill)	
GP06-09	gas probe	1484278.34	631963.21	723.77	9	to	10	714.77	to	713.77	20	703.77	sand and silt	
GP07-09	gas probe	1484460.29	632219.37	723.03	12	to	13	711.03	to	710.03	20	703.03	sand and gravel	Could not be located due to stockpiled material. Replaced as GP07-18.
GP07-18	gas probe	1484459.43	632213.10	723.86	12	to	13	711.86	to	710.86	16	707.86	sand and gravel (native)	
GP08-09	gas probe	1484676.27	632452.15	723.40	11.67	to	12.67	711.73	to	710.73	20	703.40	sand	
GP08-19*	gas probe	1484667.71	632452.15		11.67	to	12.67				20		sand and gravel	Replaced GP08-09, which appeared to be unusable
GP09-09	gas probe	1484908.15	632662.47	728.64	6.5	to	7.5	722.14	to	721.14	20	708.64	sand and silt	
GP10-09	gas probe	1484817.23	632858.08	730.49	17	to	18	713.49	to	712.49	25	705.49	sand and gravel	
GP11-09	gas probe	1485402.22	632919.18	730.48	8	to	9	722.48	to	721.48	25	705.48	sand and silt	
GP12-09	gas probe	1485461.15	633395.73	730.61	5	to	6	725.61	to	724.61	25	705.61	sand	
GP13-09	gas probe	1485238.28	633576.29	730.94	6	to	7	724.94	to	723.94	25	705.94	sand	
GP14-09	gas probe	1485401.19	633625.83	731.77	5	to	6	726.77	to	725.77	25	706.77	sand and gravel	
GP15-09	gas probe	1485299.60	633831.22	733.75	9	to	10	724.75	to	723.75	25	708.75	sand and silt	
GP16-09	gas probe	1485279.60	634021.76	735.17	7	to	8	728.17	to	727.17	25	710.17	sand and silt	
GP17-09	gas probe	1485310.58	634552.85	737.92	4	to	5	733.92	to	732.92	25	712.92	foundary sand (fill)	Could not be located due to reclaimed asphalt stockpiles
GP18-09	gas probe	1485487.25	634549.78	737.65	3	to	4	734.65	to	733.65	25	712.65	sand	Could not be located due to reclaimed asphalt stockpiles
GP19-09	gas probe	1485725.54	634637.49	734.23	4	to	5	730.23	to	729.23	25	709.23	sand (fill)	Removed on January 24, 2018 and replaced as GP19-18
GP19-18	gas probe	1485725.98	634632.68	734.19	11	to	12	723.19	to	722.19	20	714.19	silty sand (fill)	
GP20-09	gas probe	1485638.89	634100.78	731.51	4	to	5	727.51	to	726.51	25	706.51	sand (fill)	Removed on January 24, 2018 and replaced as GP20-18
GP20-18	gas probe	1485634.38	634103.24	731.84	11	to	12	720.84	to	719.84	20	711.84	sandy gravel (fill)	
GP21-09	gas probe	1485001.00	633201.06	727.43	3	to	4	724.43	to	723.43	5	722.43	sand, silt, gravel	
GP22-13	gas probe	n/a	n/a	n/a	19	to	20	n/a		n/a	20	n/a	silty, sand and gravel (native)	
GP23-13	gas probe	n/a	n/a	n/a	17.5	to	18.5	n/a		n/a	20	n/a	sand and gravel (fill)	
GP24A-13	gas probe	n/a	n/a	n/a	n/a		n/a	n/a		n/a	n/a	n/a	n/a	
GP24B-13	gas probe	n/a	n/a	n/a	n/a		n/a	n/a		n/a	n/a	n/a	n/a	
GP25-18	gas probe	1484833.55	633800.05	733.12	15	to	16	718.12	to	717.12	20	713.12	sand (fill)	
GP26-18	gas probe	1485025.84	633768.62	731.98	13.4	to	14.4	718.58	to	717.58	20	711.98	silty sand (fill)	
GP27-18	gas probe	1484526.08	633585.18	723.89	7	to	8	716.89	to	715.89	20	703.89	sand (fill)	
GP28-18	gas probe	1484848.10	633443.03	724.44	11	to	12	713.44	to	712.44	20	704.44	n/a	

Table 1

Investigative Location Completion Details
South Dayton Dump and Landfill Site
Moraine, Ohio

Location Identification	Type	Coordinates [1] Easting	Coordinates [1] Northing	Ground Surface Elevation [2] (ft AMSL)	Screened Interval ft bgs			Screened Interval ft AMSL			Bottom of Hole Depth ft bgs	Bottom of Hole Depth ft AMSL	Stratigraphy Description of Screened Interval	Notes
GP29-18	gas probe	1485165.16	633490.14	730.14	9	to	10	721.14	to	720.14	18.5	711.64	silty sand (fill)	
GP30-18	gas probe	1485470.09	633860.32	732.64	10.5	to	11.5	722.14	to	721.14	20	712.64	sand and gravel (native)	
GP31-18	gas probe	1485579.59	633710.41	731.77	8	to	9	723.77	to	722.77	20	711.77	sand (native)	
GP32-18	gas probe	1484514.28	633941.37	731.77	10	to	11	721.77	to	720.77	20	711.77	sand (fill)	
GP33-18	gas probe	1485345.08	634328.34	736.94	17.5	to	18.5	719.44	to	718.44	20	716.94	sandy gravel (native)	
GP34-18	gas probe	1485351.64	632901.71	730.93	10	to	11	720.93	to	719.93	24	706.93	sand and gravel (native)	
GP35-19*	gas probe	1484837.30	632207.77		10	to	11				20		sand and gravel	

Notes:

[1] - North American Datum of 1983 (NAD83), U.S. Survey feet
[2] - North American Vertical Datum of 1988 (NAVD88), U.S. Survey feet
N/A - Information not available.
mAMSL - metres above mean sea level.
mbgs - metres below ground surface.
* - Survey confirmation of coordinates is required

Table 2

Analytical Results Summary
Soil Sampling
South Dayton Dump and Landfill Site
Moraine, Ohio

Sample Location:		GP01-18	GP07-18	GP08-19	GP19-18	GP20-18	GP25-18	GP26-18	GP27-18	GP28-18	GP29-18	GP30-18	GP31-18	GP32-18	GP33-18	GP34-18	GP35-19
Sample ID:		S-38443-012518-JC-064	SO-38443-080118-JC-121	S-38443-011519-JC-154	S-38443-012418-JC-063	S-38443-012218-JC-060	S-38443-012918-JC-066	S-38443-012918-JC-065	S-38443-013018-JC-067	S-38443-013018-JC-068	S-38443-013018-JC-069	S-38443-011718-JC-049	S-38443-011918-JC-056	S-38443-011018-JC-037	S-38443-012218-JC-058	SO-38443-073118-JC-120	S-38443-011519-JC-153
Sample Date:		1/25/2018	8/1/2018	1/15/2019	1/24/2018	1/22/2018	1/29/2018	1/29/2018	1/30/2018	1/30/2018	1/30/2018	1/17/2018	1/19/2018	1/10/2018	1/22/2018	7/31/2018	1/15/2019
Sample Depth:		5.5-6.5 ft bgs	12-13 ft bgs	11.67-12.67 ft BGS	11-12 ft bgs	11-12 ft bgs	15-16 ft bgs	13.5-14.5 ft bgs	7-8 ft bgs	15-16 ft bgs	9-10 ft bgs	10.5-11.5 ft bgs	8-9 ft bgs	10-11 ft BGS	17.5-18.5 ft bgs	10-11 ft bgs	10-11 ft BGS
Parameters	**Units**																
Volatiles																	
1,1,1-Trichloroethane	µg/kg	530 U	26 U	0.82 U	0.37 U	0.21 U	53 UJ	0.25 U	41 U	13000 U	0.23 UJ	0.20 U	0.22 UJ	0.30 U	0.20 U	0.78 U	0.78 U
1,1,2,2-Tetrachloroethane	µg/kg	460 U	22 U	1.4 U	0.42 U	0.24 U	45 UJ	0.29 U	35 U	11000 U	0.26 U	0.23 U	0.25 U	0.34 U	0.23 U	1.4 U	1.4 U
1,1,2-Trichloroethane	µg/kg	440 U	21 U	1.1 U	0.64 U	0.36 U	43 UJ	0.43 U	33 U	11000 U	0.39 U	0.35 U	0.37 U	0.50 U	0.34 U	1.1 U	1.1 U
1,1-Dichloroethane	µg/kg	590 U	29 U	0.69 U	0.54 U	0.30 U	58 UJ	0.36 U	45 U	15000 U	0.33 U	0.29 U	0.32 U	0.43 U	0.29 U	0.66 U	0.66 U
1,1-Dichloroethene	µg/kg	680 U	33 U	0.90 U	0.88 U	0.50 U	68 UJ	0.60 U	52 U	17000 U	0.54 U	0.48 U	0.52 U	0.70 U	0.47 U	0.86 U	0.86 U
1,2,4-Trichlorobenzene	µg/kg	490 U	24 U	0.57 U	0.39 U	0.22 U	49 UJ	**0.98 J**	38 U	12000 U	0.24 U	0.21 U	0.23 U	0.31 U	0.21 U	0.54 U	0.55 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	910 U	44 U	3.6 U	1.1 U	0.63 U	90 UJ	0.75 U	69 U	23000 U	0.68 U	0.60 U	0.65 U	0.88 U	0.59 U	3.4 U	3.4 U
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	440 U	21 U	0.77 U	0.57 U	0.32 U	43 UJ	0.39 U	33 U	11000 U	0.35 U	0.31 U	0.34 U	0.45 U	0.31 U	0.73 U	0.73 U
1,2-Dichlorobenzene	µg/kg	340 U	17 U	1.1 U	0.36 U	0.20 U	34 UJ	0.24 U	**200 J**	8500 U	0.22 U	0.20 U	0.21 U	0.28 U	0.19 U	1.1 U	1.1 U
1,2-Dichloroethane	µg/kg	570 U	28 UJ	0.77 U	0.47 U	0.27 U	56 UJ	0.32 U	43 U	14000 U	0.29 U	0.26 U	0.28 U	0.38 U	0.25 U	0.73 U	0.74 U
1,2-Dichloropropane	µg/kg	570 U	28 U	0.85 U	0.50 U	0.28 U	56 UJ	0.34 U	43 U	14000 U	0.31 U	0.27 U	0.30 U	0.40 U	0.27 U	0.81 U	0.81 U
1,3-Dichlorobenzene	µg/kg	720 U	35 U	0.82 U	0.47 U	0.27 U	71 UJ	0.32 U	55 U	18000 U	0.29 U	0.26 U	0.28 U	0.38 U	0.25 U	0.78 U	0.78 U
1,4-Dichlorobenzene	µg/kg	510 U	25 U	0.88 U	0.57 U	0.32 U	51 UJ	0.39 U	**2900**	13000 U	0.35 U	0.31 U	0.34 U	0.45 U	0.31 U	0.84 U	0.84 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	950 U	46 U	3.6 U	2.1 U	1.2 U	94 UJ	**6.3 J**	**270 J**	24000 U	**12 J**	1.1 U	1.2 U	1.6 U	1.1 U	3.4 U	3.4 U
2-Hexanone	µg/kg	1600 U	79 U	4.1 U	0.94 U	0.53 U	160 UJ	0.64 U	120 U	40000 U	0.58 U	0.51 U	0.56 U	0.75 U	0.51 U	3.9 U	3.9 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	760 U	37 U	3.7 U	1.4 U	0.82 U	75 UJ	0.98 U	58 U	19000 U	0.88 U	0.79 U	0.85 U	1.2 U	0.78 U	3.5 U	3.5 U
Acetone	µg/kg	1800 U	130 U	21 U	20 U	2.8 U	180 UJ	**15 J**	**880 J**	46000 U	44 U	2.7 U	8.3 U	4.0 U	2.7 U	20 U	**120**
Benzene	µg/kg	460 U	22 U	0.70 U	0.52 U	0.29 U	45 UJ	0.35 U	35 U	11000 U	**0.36 J**	**0.43 J**	0.31 U	0.41 U	0.28 U	0.66 U	0.67 U
Bromodichloromethane	µg/kg	340 U	17 UJ	0.68 U	0.54 U	0.30 U	34 UJ	0.36 U	26 U	8500 U	0.33 U	0.29 U	0.32 U	0.43 U	0.29 U	0.65 U	0.65 U
Bromoform	µg/kg	440 U	21 U	2.4 U	0.65 U	0.37 U	43 UJ	0.44 U	33 U	11000 U	0.40 U	0.35 U	0.38 U	0.52 U	0.35 U	2.3 U	2.3 U
Bromomethane (Methyl bromide)	µg/kg	530 U	26 U	0.99 U	0.96 U	0.54 U	53 UJ	0.65 U	41 U	13000 U	0.59 U	0.52 U	0.57 U	0.76 U	0.51 U	0.94 U	0.94 U
Carbon disulfide	µg/kg	340 U	17 U	1.2 U	**1.3 J**	0.19 U	34 UJ	0.23 U	26 U	8500 U	0.21 U	0.19 U	0.20 U	0.27 U	0.18 U	1.1 U	1.1 U
Carbon tetrachloride	µg/kg	510 U	25 UJ	3.3 U	0.41 U	0.23 U	51 UJ	0.28 U	39 U	13000 U	0.25 U	0.22 U	0.24 U	0.32 U	0.22 U	3.1 U	3.1 U
Chlorobenzene	µg/kg	**100000**	28 U	0.92 U	0.54 U	0.30 U	**2000 J**	**5.4 J**	**1900**	14000 U	0.33 U	0.29 U	0.32 U	0.43 U	0.29 U	0.87 U	0.87 U
Chloroethane	µg/kg	530 U	26 U	1.2 U	0.62 U	0.35 U	53 UJ	0.42 U	41 U	13000 U	0.38 U	0.34 U	0.36 U	0.49 U	0.33 U	1.2 U	1.2 U
Chloroform (Trichloromethane)	µg/kg	460 U	22 U	0.79 U	0.37 U	0.21 U	45 UJ	0.25 U	35 U	11000 U	0.23 U	0.20 U	0.22 U	0.30 U	0.20 U	0.75 U	0.75 U
Chloromethane (Methyl chloride)	µg/kg	340 U	17 U	1.0 U	0.62 U	0.35 U	34 UJ	0.42 U	26 U	8500 U	0.38 U	0.34 U	0.36 U	0.49 U	0.33 U	0.99 U	0.99 U
cis-1,2-Dichloroethene	µg/kg	670 U	32 U	0.65 U	**17**	**1.8 J**	66 UJ	0.31 U	51 U	16000 U	**0.88 J**	0.25 U	0.27 U	0.36 U	0.24 U	0.62 U	0.62 U
cis-1,3-Dichloropropene	µg/kg	440 U	21 UJ	1.4 U	0.42 U	0.24 U	43 UJ	0.29 U	33 U	11000 U	0.26 U	0.23 U	0.25 U	0.34 U	0.23 U	1.4 U	1.4 U
Cyclohexane	µg/kg	570 U	28 U	1.4 U	0.34 U	0.19 U	56 UJ	0.23 U	43 U	14000 U	0.21 U	0.19 U	0.20 U	0.27 U	0.18 U	1.3 U	1.3 U
Dibromochloromethane	µg/kg	650 U	31 U	2.8 U	0.49 U	0.28 U	64 UJ	0.33 U	49 U	16000 U	0.30 U	0.27 U	0.29 U	0.39 U	0.26 U	2.6 U	2.7 U
Dichlorodifluoromethane (CFC-12)	µg/kg	420 U	20 U	0.94 U	0.57 U	0.32 U	41 UJ	0.39 U	32 U	10000 U	0.35 UJ	0.31 U	0.34 U	0.45 U	0.31 U	0.90 U	0.90 U
Ethylbenzene	µg/kg	670 U	**380**	1.0 U	0.44 U	0.25 U	66 UJ	0.30 U	51 U	**350000**	**0.44 J**	**0.52 J**	**0.35 J**	0.35 U	0.24 U	1.0 U	1.0 U
Isopropyl benzene	µg/kg	650 U	**140 J**	0.83 U	0.33 U	0.18 U	64 UJ	**0.65 J**	49 U	16000 U	**1.4 J**	0.18 U	0.19 U	0.26 U	0.17 U	0.79 U	0.79 U
Methyl acetate	µg/kg	1400 U	69 U	3.4 U	1.9 U	1.1 U	140 UJ	1.3 U	**260 J**	35000 U	1.2 U	1.0 U	1.1 U	1.5 U	1.0 U	3.2 U	3.2 U
Methyl cyclohexane	µg/kg	700 UJ	**77 J**	1.2 U	**2.3 J**	0.21 U	69 UJ	0.25 U	54 U	17000 U	0.23 U	0.20 U	**0.29 J**	0.30 U	0.20 U	1.2 U	1.2 U
Methyl tert butyl ether (MTBE)	µg/kg	490 U	24 U	0.82 U	0.44 U	0.25 U	49 UJ	0.30 U	38 U	12000 U	0.27 U	0.24 U	0.26 U	0.35 U	0.24 U	0.78 U	0.78 U
Methylene chloride	µg/kg	2500 U	60 U	12 U	9.7 U	5.0 U	150 UJ	1.7 U	240 U	33000 U	1.8 UJ	0.57 U	5.0 U	0.97 U	5.1 U	11 U	11 U
Styrene	µg/kg	190 U	9.2 U	1.2 U	0.44 U	0.25 U	19 UJ	0.30 U	14 U	4700 U	0.27 U	0.24 U	0.26 U	0.35 U	0.24 U	1.1 U	1.1 U
Tetrachloroethene	µg/kg	400 U	19 U	0.73 U	0.60 U	0.34 U	39 UJ	0.41 U	30 U	9900 U	0.37 U	**0.34 J**	0.35 U	0.48 U	0.32 U	0.69 U	0.70 U
Toluene	µg/kg	460 U	**430**	**1.0 J**	**3.8 J**	**0.59 J**	45 UJ	**0.56 J**	**46 J**	11000 U	**0.60 J**	**1.5 J**	**0.77 J**	**1.3 J**	**0.67 J**	0.73 U	0.74 U
trans-1,2-Dichloroethene	µg/kg	670 U	32 U	0.46 U	0.62 U	0.35 U	66 UJ	0.42 U	51 U	16000 U	0.38 U	0.34 U	0.36 U	0.49 U	0.33 U	0.44 U	0.44 U
trans-1,3-Dichloropropene	µg/kg	290 U	14 U	1.0 U	0.34 U	0.19 U	28 UJ	0.23 U	22 U	7100 U	0.21 U	0.19 U	0.20 U	0.27 U	0.18 U	0.98 U	0.99 U
Trichloroethene	µg/kg	700 U	34 UJ	0.63 U	0.67 U	**13**	69 UJ	0.45 U	54 U	17000 U	0.41 U	**2.7 J**	**5.6**	**1.5 J**	0.36 U	0.60 U	0.60 U
Trichlorofluoromethane (CFC-11)	µg/kg	650 U	31 U	1.1 U	0.39 U	0.22 UJ	64 UJ	0.27 U	49 U	16000 U	0.24 U	0.21 U	0.23 U	0.31 U	0.21 UJ	1.0 U	1.0 U
Trifluorotrichloroethane (CFC-113)	µg/kg	440 UJ	21 U	1.3 U	0.80 U	0.45 U	43 UJ	0.54 U	33 U	11000 U	0.49 U	0.43 U	0.47 U	0.63 U	0.43 U	1.2 U	1.2 U
Vinyl chloride	µg/kg	320 U	16 U	0.84 U	**1.9 J**	0.26 U	32 UJ	0.31 U	25 U	8000 U	0.28 U	0.25 U	0.27 U	0.36 U	0.24 U	0.80 U	0.80 U
Xylenes (total)	µg/kg	530 U	**2800**	1.6 U	**2.2 J**	0.37 U	53 UJ	0.44 U	**160 J**	**3000000**	**1.4 J**	**0.71 J**	**0.79 J**	0.52 U	0.35 U	1.5 U	1.5 U
Total VOCs	µg/kg	100000	3827	1	28.5	15.39	2000	28.89	6616	3350000	17.08	6.2	7.8	2.8	0.67	ND	120
Geotechnical																	
Coarse sand	%	10.7	15.4	6.9	3.7	15.2	8.5	5.0	18.3	2.8	5.0	9.4	8.0	14.2	11.8	11.8	13.1
Fine sand	%	19.1	7.4	20.2	11.4	8.0	25.4	10.5	21.5	41.9	56.9	9.4	4.3	15.7	10.4	20.5	13.3
Fines	%	11.8	7.7	14.4	35.3	11.7	34.1	50.3	18.4	9.9	12.0	11.8	6.4	10.6	9.3	14.3	15.1
Gravel	%	33.8	49.2	33.9	43.5	42.1	15.7	24.1	23.7	34.5	5.6	50.4	69.6	40.1	54.6	33.9	32.8
Medium sand	%	24.6	20.4	24.6	6.1	23.0	16.3	10.1	18.1	10.9	20.5	19.0	11.7	19.4	13.9	19.5	25.7
Sand	%	54.4	43.2	51.7	21.2	46.2	50.2	25.6	57.9	55.6	82.4	37.8	24.0	49.3	36.1	51.8	52.1
Sieve, #10	% passed	55.5	35.4	59.2	52.8	42.7	75.8	70.9	58.0	62.7	89.4	40.2	22.4	45.7	33.6	54.3	54.1
Sieve, #100	% passed	17.2	9.3	16.9	40.3	13.6	43.8	53.6	26.7	15.5	18.5	13.6	7.5	15.4	11.7	16.7	17.9
Sieve, #20	% passed	43.2	24.2	49.8	49.6	30.3	68.2	65.6	49.2	60.7	87.0	31.5	16.0	36.0	26.2	45.3	43.1
Sieve, #200	% passed	11.8	7.7	14.4	35.3	11.7	34.1	50.3	18.4	9.9	12.0	11.8	6.4	10.6	9.3	14.3	15.1
Sieve, #4	% passed	66.2	50.8	66.1	56.5	57.9	84.3	75.9	76.3	65.5	94.4	49.6	30.4	59.9	45.4	66.1	67.2
Sieve, #40	% passed	30.9	15.0	34.6	46.7	19.7	59.5	60.8	39.9	51.8	68.9	21.2	10.7	26.3	19.7	34.8	28.4
Sieve, #60	% passed	22.9	11.1	21.7	43.7	15.6	51.6	57.0	33.4	30.1	34.7	15.9	8.6	19.9	14.9	21.7	21.4
Sieve, #80	% passed	19.2	9.9	18.2	41.6	14.3	46.9	54.8	29.4	19.2	23.1	14.3	7.9	16.8	12.7	17.8	19.0
Sieve, 0.375 inch	% passed	78.4	64.0	71.8	60.4	75.0	94.6	80.0	87.6	69.4	97.6	61.3	38.7	81.3	61.7	80.8	80.7
Sieve, 0.75 inch	% passed	100.0	77.5	81.8	67.2	94.0	100.0	100.0	100.0	73.5	100.0	69.6	52.5	100.0	84.0	96.5	93.9
Sieve, 1 inch	% passed	100.0	100.0	100.0	67.2	100.0	100.0	100.0	100.0	84.6	100.0	74.2	60.8	100.0	100.0	100.0	100.0
Sieve, 1.5 inch	% passed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Sieve, 2 inch	% passed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Sieve, 3 inch	% passed	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
General Chemistry																	
Fraction organic carbon (FOC)	%	11.2	-	0.5	2.9	0.2	10.5	2.2	6.9	0.7	3.0	0.3	0.3	2.7	0.3	-	0.4

Notes:

J - Estimated concentration.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 3

Analytical Results Summary and Commercial Guidance Criteria
Soil Gas Sampling - August 2018
South Dayon Dump and Landfill Site
Moraine, Ohio

Sample Location:									GP01-18	GP01-18	GP02-09	GP03-09	GP04-09	GP05-09
Sample ID:									SVA-38443-082418-GL-036	SVA-38443-082418-GL-037	SVA-38443-081518-GL-011	SVA-38443-081418-GL-004	SVA-38443-081418-GL-002	SVA-38443-081418-GL-003
Sample Date:									8/24/2018	8/24/2018	8/15/2018	8/14/2018	8/14/2018	8/14/2018
										Duplicate				
Parameters	**Units**	**CAS#**	**Max**	**USEPA Subslab VISL Commerical**	**Accelerated Response Action Level Commerial (8 hours)**	**Urgent Response Action Level Commerial (8 hours)**	**Chronic Response Action Level Commercial**	**Removal Management Level Commercial**						
				a	**b**	**c**	**d**	**e**						
Volatiles														
1,1,1-Trichloroethane	µg/m^3	71-55-6	33	73000	-	-	-	-	32 U	34 U	2.2 U	33	2.1 J	2.4
1,1,2,2-Tetrachloroethane	µg/m^3	79-34-5	ND	7	-	-	-	-	83 U	87 U	5.7 U	0.42 U	4.2 U	0.42 U
1,1,2-Trichloroethane	µg/m^3	79-00-5	ND	3	-	-	-	-	58 U	61 U	4.0 U	0.29 U	2.9 U	0.29 U
1,1-Dichloroethane	µg/m^3	75-34-3	3200	256	-	-	-	-	21 U	22 U	1.6 J	4.7	29	0.11 U
1,1-Dichloroethene	µg/m^3	75-35-4	24	2920	-	-	-	-	27 U	28 U	1.8 U	0.13 U	1.3 U	0.13 U
1,2,4-Trichlorobenzene	µg/m^3	120-82-1	ND	29	-	-	-	-	140 U	150 U	9.9 UJ	0.73 UJ	7.3 UJ	0.73 UJ
1,2,4-Trimethylbenzene	µg/m^3	95-63-6	8400 J	876	-	-	-	-	61 U	64 U	15	17	19	16
1,2-Dibromoethane (Ethylene dibromide)	µg/m^3	106-93-4	ND	1	-	-	-	-	67 U	70 U	4.6 U	0.34 U	3.4 U	0.34 U
1,2-Dichlorobenzene	µg/m^3	95-50-1	ND	2920	-	-	-	-	83 U	87 U	5.7 U	0.42 U	4.2 U	0.42 U
1,2-Dichloroethane	µg/m^3	107-06-2	1	16	-	-	-	-	38 U	39 U	2.6 U	0.19 U	1.9 U	0.19 U
1,2-Dichloropropane	µg/m^3	78-87-5	ND	58	-	-	-	-	48 U	50 U	3.3 U	0.24 U	2.4 U	0.24 U
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m^3	76-14-2	310	-	-	-	-	-	110 J	120 J	310	0.22 U	2.2 U	0.22 J
1,3,5-Trimethylbenzene	µg/m^3	108-67-8	52 J	876	-	-	-	-	63 U	66 U	4.3 U	4.8	5.7 J	4.4
1,3-Butadiene	µg/m^3	106-99-0	ND	14	-	-	-	-	28 U	29 U	1.9 U	0.14 U	1.4 U	0.14 U
1,3-Dichlorobenzene	µg/m^3	541-73-1	6.9	-	-	-	-	-	77 U	81 U	5.3 U	0.39 U	3.9 U	0.39 U
1,3-Dichloropropene	µg/m^3	542-75-6	ND	102	-	-	-	-	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	µg/m^3	106-46-7	74 J	37	-	-	-	-	76 U	80 U	5.2 U	0.38 U	3.8 U	0.38 U
1,4-Dioxane	µg/m^3	123-91-1	0.73 J	82	-	-	-	-	57 U	60 U	3.9 U	0.29 U	2.9 U	0.29 U
2,2,4-Trimethylpentane	µg/m^3	540-84-1	1800000	-	-	-	-	-	3500	3600	2.5 U	0.18 U	26	0.18 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m^3	78-93-3	35 J	73000	-	-	-	-	120 U	120 U	8.0 U	9.8	24 J	10
2-Chlorotoluene	µg/m^3	95-49-8	1.5 J	-	-	-	-	-	65 U	67 U	4.4 U	0.33 U	3.3 U	0.33 U
2-Hexanone	µg/m^3	591-78-6	8.9 J	438	-	-	-	-	47 U	49 U	8.9 J	1.9 J	2.4 U	1.5 J
2-Phenylbutane (sec-Butylbenzene)	µg/m^3	135-98-8	47 J	-	-	-	-	-	70 U	73 U	4.8 U	0.35 U	3.5 U	0.35 U
4-Ethyl toluene	µg/m^3	622-96-8	72 J	-	-	-	-	-	64 U	67 U	4.5 J	5.7	6.5 J	5.3
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/m^3	108-10-1	4.3	43800	-	-	-	-	160 U	170 U	11 U	0.86 J	8.0 U	1.4 J
Acetone	µg/m^3	67-64-1	460	451000	-	-	-	-	660 U	690 U	58 J	100	460	78
Allyl chloride	µg/m^3	107-05-1	ND	15	-	-	-	-	30 U	31 U	2.0 U	0.15 U	1.5 U	0.15 U
Benzene	µg/m^3	71-43-2	110000	52	-	-	-	-	**2200[a]**	**2100[a]**	9.6	0.57 J	3.0 J	0.41 J
Benzyl chloride	µg/m^3	100-44-7	ND	8	-	-	-	-	80 U	84 U	5.5 U	0.40 U	4.0 U	0.40 U
Bromodichloromethane	µg/m^3	75-27-4	ND	11	-	-	-	-	58 U	61 U	4.0 U	0.29 U	2.9 U	0.29 U
Bromoform	µg/m^3	75-25-2	ND	372	-	-	-	-	98 U	100 U	6.7 U	0.50 U	5.0 U	0.50 U
Bromomethane (Methyl bromide)	µg/m^3	74-83-9	0.98 J	73	-	-	-	-	25 U	26 U	1.7 U	0.35 J	1.2 U	0.19 J
Butane	µg/m^3	106-97-8	8100	-	-	-	-	-	4000	3800	740	0.81 J	610	0.74 J
Carbon disulfide	µg/m^3	75-15-0	270 J	10200	-	-	-	-	58 J	54 J	15 J	26	66	15
Carbon tetrachloride	µg/m^3	56-23-5	36	68	-	-	680	6800	47 U	49 U	3.3 U	0.24 U	2.4 U	0.24 U
Chlorobenzene	µg/m^3	108-90-7	110000	730	-	-	-	-	**110000[a]**	**110000[a]**	3.1 U	0.23 U	2.3 U	0.23 U
Chlorodifluoromethane	µg/m^3	75-45-6	580	730000	-	-	-	-	580	540	470	0.52 J	32	1.1
Chloroethane	µg/m^3	75-00-3	550	146000	-	-	-	-	95 J	73 J	4.6 J	0.53	3.1 J	0.27 J
Chloroform (Trichloromethane)	µg/m^3	67-66-3	110 J	18	-	-	180	1800	37 U	38 U	2.5 U	18	1.9 U	0.19 U
Chloromethane (Methyl chloride)	µg/m^3	74-87-3	3.5	1310	-	-	-	-	65 U	68 U	4.5 U	1.2	3.3 U	0.45 J
cis-1,2-Dichloroethene	µg/m^3	156-59-2	1700	-	-	-	-	-	130 J	140 J	10 J	0.93	2.4 U	0.24 U
cis-1,3-Dichloropropene	µg/m^3	10061-01-5	ND	-	-	-	-	-	67 U	69 U	4.6 U	0.34 U	3.4 U	0.34 U
Cyclohexane	µg/m^3	110-82-7	230000	87600	-	-	-	-	1800	1900	310	0.68 J	8.2 J	0.41 J
Cymene (p-Isopropyltoluene)	µg/m^3	99-87-6	0.46 J	-	-	-	-	-	62 U	65 U	4.3 U	0.46 J	3.1 U	0.44 J
Dibromochloromethane	µg/m^3	124-48-1	ND	-	-	-	-	-	71 U	74 U	4.9 U	0.36 U	3.6 U	0.36 U
Dichlorodifluoromethane (CFC-12)	µg/m^3	75-71-8	570	1460	-	-	-	-	67 U	70 U	330	1.1	9.8	570
Ethylbenzene	µg/m^3	100-41-4	140000	164	-	-	-	-	**500[a]**	**500[a]**	4.2 J	3.2	24	2.9
Hexachlorobutadiene	µg/m^3	87-68-3	ND	19	-	-	-	-	160 U	170 U	11 UJ	0.83 UJ	8.3 UJ	0.83 UJ

Table 3

Analytical Results Summary and Commercial Guidance Criteria
Soil Gas Sampling - August 2018
South Dayon Dump and Landfill Site
Moraine, Ohio

Sample Location:									GP01-18	GP01-18	GP02-09	GP03-09	GP04-09	GP05-09
Sample ID:									SVA-38443-082418-GL-036	SVA-38443-082418-GL-037	SVA-38443-081518-GL-011	SVA-38443-081418-GL-004	SVA-38443-081418-GL-002	SVA-38443-081418-GL-003
Sample Date:									8/24/2018	8/24/2018	8/15/2018	8/14/2018	8/14/2018	8/14/2018
										Duplicate				
Parameters	**Units**	**CAS#**	**Max**	**USEPA Subslab VISL Commerical**	**Accelerated Response Action Level Commerial (8 hours)**	**Urgent Response Action Level Commerial (8 hours)**	**Chronic Response Action Level Commercial**	**Removal Management Level Commercial**						
				a	**b**	**c**	**d**	**e**						
Hexane	µg/m^3	110-54-3	630000	10200	-	-	-	-	1300	1200	220	0.92 J	22	0.94 J
Isopropyl alcohol	µg/m^3	67-63-0	160	2920	-	-	-	-	46 U	48 U	14 J	2.3 J	8.1 J	4.6 J
Isopropyl benzene	µg/m^3	98-82-8	9800 J	5840	-	-	-	-	58 U	61 U	4.0 U	0.29 U	2.9 U	0.29 U
m&p-Xylenes	µg/m^3	M/P-XYLENE	590000	-	-	-	-	-	290	290	16	15	84	13
Methyl methacrylate	µg/m^3	80-62-6	1.4 J	10200	-	-	-	-	64 U	67 U	4.4 U	0.32 U	3.2 U	0.32 U
Methyl tert butyl ether (MTBE)	µg/m^3	1634-04-4	ND	1570	-	-	-	-	120 U	130 U	8.3 U	0.61 U	6.1 U	0.61 U
Methylene chloride	µg/m^3	75-09-2	40	8760	-	-	-	-	220 U	230 U	15 U	1.2 J	11 U	1.1 J
Naphthalene	µg/m^3	91-20-3	1.5 J	12	-	-	120	1200	93 U	98 U	6.4 UJ	1.1 J	4.7 UJ	1.1 J
N-Butylbenzene	µg/m^3	104-51-8	16 J	-	-	-	-	-	50 U	52 U	3.8 J	3.5	2.8 J	3.3
N-Heptane	µg/m^3	142-82-5	1100000	5840	-	-	-	-	1600	1600	130	0.57 J	5.0 J	0.54 J
N-Propylbenzene	µg/m^3	103-65-1	95 J	14600	-	-	-	-	55 U	57 U	3.7 U	3.0	5.0 J	2.7
o-Xylene	µg/m^3	95-47-6	180000	1460	-	-	-	-	52 U	55 U	6.8 J	6.0	28	5.4
Styrene	µg/m^3	100-42-5	3.5	14600	-	-	-	-	49 U	51 U	3.4 U	3.5	2.5 U	3.2
tert-Butyl alcohol	µg/m^3	75-65-0	11 J	-	-	-	-	-	23 U	24 U	6.2 J	2.3 J	8.0 J	7.4
tert-Butylbenzene	µg/m^3	98-06-6	5.7 J	-	-	-	-	-	72 U	75 U	5.7 J	0.36 U	3.6 U	0.36 U
Tetrachloroethene	µg/m^3	127-18-4	550	584	-	-	5800	18000	54 U	56 U	3.7 U	550	2.7 U	7.0
Tetrahydrofuran	µg/m^3	109-99-9	4.7 J	29200	-	-	-	-	37 U	38 U	2.5 U	1.3 J	1.9 U	1.2 J
Toluene	µg/m^3	108-88-3	1700000	73000	-	-	-	-	160	170	12	15	65	13
trans-1,2-Dichloroethene	µg/m^3	156-60-5	330	-	-	-	-	-	39 U	41 U	2.7 U	0.20 U	2.0 U	0.20 U
trans-1,3-Dichloropropene	µg/m^3	10061-02-6	ND	-	-	-	-	-	43 U	45 U	3.0 U	0.22 U	2.2 U	0.22 U
Trichloroethene	µg/m^3	79-01-6	27000	29	290	880	-	-	38 U	40 U	2.6 U	**120**[a]	1.9 U	0.19 U
Trichlorofluoromethane (CFC-11)	µg/m^3	75-69-4	8.7	-	-	-	-	-	27 U	28 U	1.8 U	2.6	1.3 U	4.6
Trifluorotrichloroethane (CFC-113)	µg/m^3	76-13-1	6.6	73000	-	-	-	-	47 U	49 U	3.2 U	0.72 J	2.4 U	0.60 J
Vinyl bromide (Bromoethene)	µg/m^3	593-60-2	ND	13	-	-	-	-	30 U	32 U	2.1 U	0.15 U	1.5 U	0.15 U
Vinyl chloride	µg/m^3	75-01-4	2500	93	-	-	930	9300	**1000**[ad]	**960**[ad]	65	0.18 U	1.8 U	0.18 U
Xylenes (total)	µg/m^3	1330-20-7	770000	1460	-	-	-	-	290	290	22.8	21	112	18.4
Total VOCs	µg/m^3	-		-	-	-	-	-	127613	127337	2793.7	982.12	1668.3	799.21

Notes:

J - Estimated concentration.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
1 - USEPA sub slab or exterior soil gas concentration Vapor Intrusion Screening Levels (VISLs) based on cancer risk 1E 06 and hazard quotient (HQ)=0.1
2 - Ohio EPA accelerated and urgent response action levels and chronic response action level and removal management levels, from the Ohio EPA Guidance Document titled "Recommendations Regarding Response Action Levels and Timeframes for Common Contaminants of Concern at Vapor Intrusion Sites in Ohio", dated August 2016.
- Concentration was greater than applicable criteria.

Table 3

Analytical Results Summary and Commercial Guidance Criteria
Soil Gas Sampling - August 2018
South Dayon Dump and Landfill Site
Moraine, Ohio

Sample Location:									GP06-09	GP07-18	GP09-09	GP10-09	GP11-09	GP12-09
Sample ID:									SVA-38443-082118-GL-019	SVA-38443-082118-GL-018	SVA-38443-082118-GL-021	SVA-38443-082118-GL-020	SVA-38443-081518-GL-012	SVA-38443-082018-GL-013
Sample Date:									8/21/2018	8/21/2018	8/21/2018	8/21/2018	8/15/2018	8/20/2018
Parameters	**Units**	**CAS#**	**Max**	**USEPA Subslab VISL Commerical**	**Accelerated Response Action Level Commerial (8 hours)**	**Urgent Response Action Level Commerial (8 hours)**	**Chronic Response Action Level Commercial**	**Removal Management Level Commercial**						
				a	**b**	**c**	**d**	**e**						
Volatiles														
1,1,1-Trichloroethane	µg/m^3	71-55-6	33	73000	-	-	-	-	0.49 J	3700 U	4.1 J	4.5	2.6	1.6 U
1,1,2,2-Tetrachloroethane	µg/m^3	79-34-5	ND	7	-	-	-	-	0.42 U	9500 U	4.2 U	1.0 U	0.42 U	4.2 U
1,1,2-Trichloroethane	µg/m^3	79-00-5	ND	3	-	-	-	-	0.29 U	6700 U	2.9 U	0.74 U	0.29 U	2.9 U
1,1-Dichloroethane	µg/m^3	75-34-3	3200	256	-	-	-	-	0.11 U	2400 U	1.1 U	2.9	0.11 U	1.1 U
1,1-Dichloroethene	µg/m^3	75-35-4	24	2920	-	-	-	-	0.13 U	3000 U	1.3 U	0.34 U	0.13 U	1.3 U
1,2,4-Trichlorobenzene	µg/m^3	120-82-1	ND	29	-	-	-	-	0.73 UJ	16000 UJ	7.3 UJ	1.8 UJ	0.73 UJ	7.3 UJ
1,2,4-Trimethylbenzene	µg/m^3	95-63-6	8400 J	876	-	-	-	-	8.9	**8400 J[a]**	12	11	13	7.8 J
1,2-Dibromoethane (Ethylene dibromide)	µg/m^3	106-93-4	ND	1	-	-	-	-	0.34 U	7600 U	3.4 U	0.85 U	0.34 U	3.4 U
1,2-Dichlorobenzene	µg/m^3	95-50-1	ND	2920	-	-	-	-	0.42 U	9500 U	4.2 U	1.1 U	0.42 U	4.2 U
1,2-Dichloroethane	µg/m^3	107-06-2	1	16	-	-	-	-	0.89	4300 U	1.9 U	0.48 U	0.19 U	1.9 U
1,2-Dichloropropane	µg/m^3	78-87-5	ND	58	-	-	-	-	0.24 U	5400 U	2.4 U	0.60 U	0.24 U	2.4 U
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m^3	76-14-2	310	-	-	-	-	-	0.22 U	5100 U	2.2 U	0.99 J	0.22 U	2.2 U
1,3,5-Trimethylbenzene	µg/m^3	108-67-8	52 J	876	-	-	-	-	2.5	7200 U	4.5 J	2.9	3.7	3.2 U
1,3-Butadiene	µg/m^3	106-99-0	ND	14	-	-	-	-	0.14 U	3200 U	1.4 U	0.35 U	0.14 U	1.4 U
1,3-Dichlorobenzene	µg/m^3	541-73-1	6.9	-	-	-	-	-	0.63 J	8800 U	3.9 U	4.2	0.39 U	3.9 U
1,3-Dichloropropene	µg/m^3	542-75-6	ND	102	-	-	-	-	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	µg/m^3	106-46-7	74 J	37	-	-	-	-	0.38 U	8700 U	3.8 U	0.96 U	0.38 U	3.8 U
1,4-Dioxane	µg/m^3	123-91-1	0.73 J	82	-	-	-	-	0.29 U	6500 U	2.9 U	0.72 U	0.29 U	2.9 U
2,2,4-Trimethylpentane	µg/m^3	540-84-1	1800000	-	-	-	-	-	17	1800000	20 J	2.1 J	0.18 U	1.8 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m^3	78-93-3	35 J	73000	-	-	-	-	11	13000 U	13 J	12	4.7	7.8 J
2-Chlorotoluene	µg/m^3	95-49-8	1.5 J	-	-	-	-	-	0.33 U	7400 U	3.3 U	1.5 J	0.33 U	3.3 U
2-Hexanone	µg/m^3	591-78-6	8.9 J	438	-	-	-	-	2.1	5400 U	2.4 U	1.7 J	0.61 J	4.1 J
2-Phenylbutane (sec-Butylbenzene)	µg/m^3	135-98-8	47 J	-	-	-	-	-	0.35 U	7900 U	3.5 U	0.88 U	0.35 U	3.5 U
4-Ethyl toluene	µg/m^3	622-96-8	72 J	-	-	-	-	-	2.1	7300 U	4.0 J	2.6 J	3.4	3.2 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/m^3	108-10-1	4.3	43800	-	-	-	-	1.8 J	18000 U	8.0 U	2.0 U	2.7	8.0 U
Acetone	µg/m^3	67-64-1	460	451000	-	-	-	-	69 J	75000 UJ	95 J	96	41	130
Allyl chloride	µg/m^3	107-05-1	ND	15	-	-	-	-	0.15 U	3400 U	1.5 U	0.38 U	0.15 U	1.5 U
Benzene	µg/m^3	71-43-2	110000	52	-	-	-	-	1.8	**110000[a]**	2.5 J	1.7	0.39 J	1.8 U
Benzyl chloride	µg/m^3	100-44-7	ND	8	-	-	-	-	0.40 U	9100 U	4.0 U	1.0 U	0.40 U	4.0 U
Bromodichloromethane	µg/m^3	75-27-4	ND	11	-	-	-	-	0.29 U	6700 U	2.9 U	0.74 U	0.29 U	2.9 U
Bromoform	µg/m^3	75-25-2	ND	372	-	-	-	-	0.50 U	11000 U	5.0 U	1.2 U	0.50 U	5.0 U
Bromomethane (Methyl bromide)	µg/m^3	74-83-9	0.98 J	73	-	-	-	-	0.14 J	2800 U	1.2 U	0.31 U	0.20 J	1.2 U
Butane	µg/m^3	106-97-8	8100	-	-	-	-	-	0.72 J	6200 J	1.8 J	3.1	1.2	1.7 U
Carbon disulfide	µg/m^3	75-15-0	270 J	10200	-	-	-	-	13	2200 U	34	4.7	36	31
Carbon tetrachloride	µg/m^3	56-23-5	36	68	-	-	680	6800	0.24 U	5400 U	2.4 U	0.60 U	0.24 U	2.4 U
Chlorobenzene	µg/m^3	108-90-7	110000	730	-	-	-	-	0.23 U	5100 U	2.3 U	0.56 U	0.23 U	2.3 U
Chlorodifluoromethane	µg/m^3	75-45-6	580	730000	-	-	-	-	5.6	3000 U	4.1 J	5.3	2.0	6.0 J
Chloroethane	µg/m^3	75-00-3	550	146000	-	-	-	-	0.092 U	2100 U	0.92 U	0.23 U	0.46 J	0.96 J
Chloroform (Trichloromethane)	µg/m^3	67-66-3	110 J	18	-	-	180	1800	0.38 J	4200 U	1.9 U	0.46 U	0.19 U	1.9 U
Chloromethane (Methyl chloride)	µg/m^3	74-87-3	3.5	1310	-	-	-	-	0.55 J	7500 U	3.3 U	0.83 U	3.4	3.3 J
cis-1,2-Dichloroethene	µg/m^3	156-59-2	1700	-	-	-	-	-	0.24 U	5400 U	2.4 U	3.2	0.24 U	2.4 U
cis-1,3-Dichloropropene	µg/m^3	10061-01-5	ND	-	-	-	-	-	0.34 U	7600 U	3.4 U	0.84 U	0.34 U	3.4 U
Cyclohexane	µg/m^3	110-82-7	230000	87600	-	-	-	-	2.5	**230000[a]**	2.5 J	1.1 J	0.67 J	1.4 U
Cymene (p-Isopropyltoluene)	µg/m^3	99-87-6	0.46 J	-	-	-	-	-	0.40 J	7100 U	3.1 U	0.78 U	0.39 J	3.1 U
Dibromochloromethane	µg/m^3	124-48-1	ND	-	-	-	-	-	0.36 U	8100 U	3.6 U	0.89 U	0.36 U	3.6 U
Dichlorodifluoromethane (CFC-12)	µg/m^3	75-71-8	570	1460	-	-	-	-	1.2	7600 U	3.6 J	9.0	1.2	3.7 J
Ethylbenzene	µg/m^3	100-41-4	140000	164	-	-	-	-	2.8	**140000[a]**	11	3.4	2.4	3.0 U
Hexachlorobutadiene	µg/m^3	87-68-3	ND	19	-	-	-	-	0.83 UJ	19000 UJ	8.3 UJ	2.1 UJ	0.83 UJ	8.3 UJ

Table 3

Analytical Results Summary and Commercial Guidance Criteria
Soil Gas Sampling - August 2018
South Dayon Dump and Landfill Site
Moraine, Ohio

Sample Location:									GP06-09	GP07-18	GP09-09	GP10-09	GP11-09	GP12-09
Sample ID:									SVA-38443-082118-GL-019	SVA-38443-082118-GL-018	SVA-38443-082118-GL-021	SVA-38443-082118-GL-020	SVA-38443-081518-GL-012	SVA-38443-082018-GL-013
Sample Date:									8/21/2018	8/21/2018	8/21/2018	8/21/2018	8/15/2018	8/20/2018
Parameters	**Units**	**CAS#**	**Max**	**USEPA Subslab VISL Commerical**	**Accelerated Response Action Level Commerial (8 hours)**	**Urgent Response Action Level Commerial (8 hours)**	**Chronic Response Action Level Commercial**	**Removal Management Level Commercial**						
				a	**b**	**c**	**d**	**e**						
Hexane	µg/m^3	110-54-3	630000	10200	-	-	-	-	15	**630000[a]**	3.5 J	1.7 J	1.1 J	1.1 U
Isopropyl alcohol	µg/m^3	67-63-0	160	2920	-	-	-	-	57	5200 U	140	160	2.5 J	27 J
Isopropyl benzene	µg/m^3	98-82-8	9800 J	5840	-	-	-	-	1.4 J	**9800 J[a]**	4.4 J	2.6 J	0.68 J	2.9 U
m&p-Xylenes	µg/m^3	M/P-XYLENE	590000	-	-	-	-	-	12	590000	47	13	11	7.4 J
Methyl methacrylate	µg/m^3	80-62-6	1.4 J	10200	-	-	-	-	0.32 U	7300 U	3.2 U	0.81 U	1.4 J	3.2 U
Methyl tert butyl ether (MTBE)	µg/m^3	1634-04-4	ND	1570	-	-	-	-	0.61 U	14000 U	6.1 U	1.5 U	0.61 U	6.1 U
Methylene chloride	µg/m^3	75-09-2	40	8760	-	-	-	-	7.0	25000 U	14 J	3.6 J	2.3	11 U
Naphthalene	µg/m^3	91-20-3	1.5 J	12	-	-	120	1200	0.79 J	11000 UJ	4.7 UJ	1.5 J	1.0 J	4.7 UJ
N-Butylbenzene	µg/m^3	104-51-8	16 J	-	-	-	-	-	1.8 J	5700 U	2.5 U	2.4 J	2.7	2.5 U
N-Heptane	µg/m^3	142-82-5	1100000	5840	-	-	-	-	12	**1100000[a]**	14 J	3.4 J	0.50 J	1.9 U
N-Propylbenzene	µg/m^3	103-65-1	95 J	14600	-	-	-	-	1.2 J	6200 U	2.8 U	1.5 J	2.2	2.8 U
o-Xylene	µg/m^3	95-47-6	180000	1460	-	-	-	-	4.9	**180000[a]**	20	5.5	4.5	2.9 J
Styrene	µg/m^3	100-42-5	3.5	14600	-	-	-	-	1.2	5600 U	2.5 U	1.7 J	2.2	2.5 U
tert-Butyl alcohol	µg/m^3	75-65-0	11 J	-	-	-	-	-	3.3 J	2600 U	5.1 J	8.5 J	1.1 J	11 J
tert-Butylbenzene	µg/m^3	98-06-6	5.7 J	-	-	-	-	-	0.36 U	8200 U	3.6 U	0.91 U	0.36 U	3.6 U
Tetrachloroethene	µg/m^3	127-18-4	550	584	-	-	5800	18000	22	6100 U	26	13	1.1 J	92
Tetrahydrofuran	µg/m^3	109-99-9	4.7 J	29200	-	-	-	-	0.19 U	4200 U	4.7 J	3.7 J	0.88 J	1.9 U
Toluene	µg/m^3	108-88-3	1700000	73000	-	-	-	-	23	**1700000[a]**	38	13	9.8	4.5 U
trans-1,2-Dichloroethene	µg/m^3	156-60-5	330	-	-	-	-	-	0.59 J	4500 U	2.2 J	1.4 J	0.20 U	2.0 U
trans-1,3-Dichloropropene	µg/m^3	10061-02-6	ND	-	-	-	-	-	0.22 U	4900 U	2.2 U	0.54 U	0.22 U	2.2 U
Trichloroethene	µg/m^3	79-01-6	27000	29	290	880	-	-	0.28 J	4400 U	**690[ab]**	**34[a]**	0.19 U	**690[ab]**
Trichlorofluoromethane (CFC-11)	µg/m^3	75-69-4	8.7	-	-	-	-	-	8.7	3100 U	2.9 J	0.76 J	2.4	2.0 J
Trifluorotrichloroethane (CFC-113)	µg/m^3	76-13-1	6.6	73000	-	-	-	-	0.60 J	5400 U	2.4 U	1.5 J	0.62 J	2.4 U
Vinyl bromide (Bromoethene)	µg/m^3	593-60-2	ND	13	-	-	-	-	0.15 U	3500 U	1.5 U	0.38 U	0.15 U	1.5 U
Vinyl chloride	µg/m^3	75-01-4	2500	93	-	-	930	9300	0.18 U	4100 U	1.8 U	1.7	0.61	1.8 U
Xylenes (total)	µg/m^3	1330-20-7	770000	1460	-	-	-	-	16.9	**770000[a]**	67	18.5	15.5	10.3
Total VOCs	µg/m^3	-		-	-	-	-	-	335.16	7274400	1290.9	466.85	184.11	1037.26

Notes:

J - Estimated concentration.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
1 - USEPA sub slab or exterior soil gas concentration Vapor Intrusion Screening Levels (VISLs) based on cancer risk 1E 06 and hazard quotient (HQ)=0.1
2 - Ohio EPA accelerated and urgent response action levels and chronic response action level and removal management levels, from the Ohio EPA Guidance Document titled "Recommendations Regarding Response Action Levels and Timeframes for Common Contaminants of Concern at Vapor Intrusion Sites in Ohio", dated August 2016.
- Concentration was greater than applicable criteria.

Table 3

Analytical Results Summary and Commercial Guidance Criteria
Soil Gas Sampling - August 2018
South Dayon Dump and Landfill Site
Moraine, Ohio

Sample Location:									GP13-09	GP14-09	GP14-09	GP15-09	GP16-09	GP19-18
Sample ID:									SVA-38443-082018-GL-014	SVA-38443-082018-GL-015	SVA-38443-082018-GL-016	SVA-38443-082018-GL-017	SVA-38443-082318-GL-028	SVA-38443-082318-GL-034
Sample Date:									8/20/2018	8/20/2018	8/20/2018	8/20/2018	8/23/2018	8/23/2018
											Duplicate			
Parameters	**Units**	**CAS#**	**Max**	**USEPA Subslab VISL Commerical**	**Accelerated Response Action Level Commerial (8 hours)**	**Urgent Response Action Level Commerial (8 hours)**	**Chronic Response Action Level Commercial**	**Removal Management Level Commercial**						
				a	**b**	**c**	**d**	**e**						
Volatiles														
1,1,1-Trichloroethane	µg/m^3	71-55-6	33	73000	-	-	-	-	14	1.3 J	1.3 J	8.5 J	17 U	4.8 U
1,1,2,2-Tetrachloroethane	µg/m^3	79-34-5	ND	7	-	-	-	-	0.42 U	1.7 U	1.7 U	12 U	43 U	12 U
1,1,2-Trichloroethane	µg/m^3	79-00-5	ND	3	-	-	-	-	0.29 U	1.2 U	1.2 U	8.7 U	30 U	8.7 U
1,1-Dichloroethane	µg/m^3	75-34-3	3200	256	-	-	-	-	**310[a]**	1.5 J	1.7 J	**3200[a]**	55 J	3.1 U
1,1-Dichloroethene	µg/m^3	75-35-4	24	2920	-	-	-	-	0.32 J	0.54 U	0.54 U	6.7 J	14 U	11 J
1,2,4-Trichlorobenzene	µg/m^3	120-82-1	ND	29	-	-	-	-	0.73 UJ	2.9 UJ	2.9 UJ	22 UJ	75 UJ	22 U
1,2,4-Trimethylbenzene	µg/m^3	95-63-6	8400 J	876	-	-	-	-	8.4	5.1	5.0	11 J	32 U	9.2 U
1,2-Dibromoethane (Ethylene dibromide)	µg/m^3	106-93-4	ND	1	-	-	-	-	0.34 U	1.4 U	1.4 U	10 U	35 U	10 U
1,2-Dichlorobenzene	µg/m^3	95-50-1	ND	2920	-	-	-	-	0.42 U	1.7 U	1.7 U	12 U	43 U	12 U
1,2-Dichloroethane	µg/m^3	107-06-2	1	16	-	-	-	-	0.19 U	0.76 U	0.76 U	5.6 U	20 U	5.6 U
1,2-Dichloropropane	µg/m^3	78-87-5	ND	58	-	-	-	-	0.24 U	0.96 U	0.96 U	7.1 U	25 U	7.1 U
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m^3	76-14-2	310	-	-	-	-	-	8.6	0.89 U	0.89 U	6.6 U	23 U	6.6 U
1,3,5-Trimethylbenzene	µg/m^3	108-67-8	52 J	876	-	-	-	-	2.2	1.4 J	1.3 J	9.5 U	33 U	9.5 U
1,3-Butadiene	µg/m^3	106-99-0	ND	14	-	-	-	-	0.14 U	0.57 U	0.57 U	4.2 U	15 U	4.2 U
1,3-Dichlorobenzene	µg/m^3	541-73-1	6.9	-	-	-	-	-	0.39 U	1.6 U	1.6 U	12 U	40 U	12 U
1,3-Dichloropropene	µg/m^3	542-75-6	ND	102	-	-	-	-	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	µg/m^3	106-46-7	74 J	37	-	-	-	-	0.38 U	1.5 U	1.5 U	11 U	40 U	11 U
1,4-Dioxane	µg/m^3	123-91-1	0.73 J	82	-	-	-	-	0.29 U	1.2 U	1.2 U	8.5 U	30 U	8.5 U
2,2,4-Trimethylpentane	µg/m^3	540-84-1	1800000	-	-	-	-	-	0.44 J	0.73 U	0.73 U	5.4 U	3600	190
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m^3	78-93-3	35 J	73000	-	-	-	-	5.9	5.9 J	2.6 J	17 U	61 U	35 J
2-Chlorotoluene	µg/m^3	95-49-8	1.5 J	-	-	-	-	-	0.33 U	1.3 U	1.3 U	9.7 U	34 U	9.7 U
2-Hexanone	µg/m^3	591-78-6	8.9 J	438	-	-	-	-	0.97 J	0.95 U	0.95 U	7.0 U	24 U	7.0 U
2-Phenylbutane (sec-Butylbenzene)	µg/m^3	135-98-8	47 J	-	-	-	-	-	0.35 U	1.4 U	1.4 U	10 U	36 U	10 U
4-Ethyl toluene	µg/m^3	622-96-8	72 J	-	-	-	-	-	1.9 J	1.3 U	1.3 U	9.6 U	33 U	9.6 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/m^3	108-10-1	4.3	43800	-	-	-	-	1.1 J	3.2 U	3.2 U	24 U	82 U	24 U
Acetone	µg/m^3	67-64-1	460	451000	-	-	-	-	58	54 J	28 J	98 U	340 U	340 J
Allyl chloride	µg/m^3	107-05-1	ND	15	-	-	-	-	0.15 U	0.60 U	0.60 U	4.4 U	15 U	4.4 U
Benzene	µg/m^3	71-43-2	110000	52	-	-	-	-	0.32 J	0.72 U	0.72 U	5.3 U	18 U	45
Benzyl chloride	µg/m^3	100-44-7	ND	8	-	-	-	-	0.40 U	1.6 U	1.6 U	12 U	42 U	12 U
Bromodichloromethane	µg/m^3	75-27-4	ND	11	-	-	-	-	0.29 U	1.2 U	1.2 U	8.7 U	30 U	8.7 U
Bromoform	µg/m^3	75-25-2	ND	372	-	-	-	-	0.50 U	2.0 U	2.0 U	15 U	51 U	15 U
Bromomethane (Methyl bromide)	µg/m^3	74-83-9	0.98 J	73	-	-	-	-	0.12 U	0.50 U	0.50 U	3.7 U	13 U	3.7 U
Butane	µg/m^3	106-97-8	8100	-	-	-	-	-	13	1.1 J	0.69 U	5.1 U	6800	940
Carbon disulfide	µg/m^3	75-15-0	270 J	10200	-	-	-	-	14	5.9 J	4.2 J	26 J	11 J	40 J
Carbon tetrachloride	µg/m^3	56-23-5	36	68	-	-	680	6800	0.24 U	0.96 U	0.96 U	9.2 J	25 U	7.1 U
Chlorobenzene	µg/m^3	108-90-7	110000	730	-	-	-	-	0.23 U	0.90 U	0.90 U	6.7 U	23 U	6.7 U
Chlorodifluoromethane	µg/m^3	75-45-6	580	730000	-	-	-	-	0.94	7.3	5.4	7.7 J	110	3.9 U
Chloroethane	µg/m^3	75-00-3	550	146000	-	-	-	-	0.97	0.37 U	0.37 U	12 J	9.5 U	9.2 J
Chloroform (Trichloromethane)	µg/m^3	67-66-3	110 J	18	-	-	180	1800	3.6	7.6	7.4	17 J	19 U	5.5 U
Chloromethane (Methyl chloride)	µg/m^3	74-87-3	3.5	1310	-	-	-	-	0.46 J	1.3 U	1.3 U	9.8 U	34 U	9.8 U
cis-1,2-Dichloroethene	µg/m^3	156-59-2	1700	-	-	-	-	-	0.24 U	3.5	3.1 J	1400	24 U	1700
cis-1,3-Dichloropropene	µg/m^3	10061-01-5	ND	-	-	-	-	-	0.34 U	1.3 U	1.3 U	9.9 U	35 U	9.9 U
Cyclohexane	µg/m^3	110-82-7	230000	87600	-	-	-	-	3.7	0.55 U	0.55 U	4.1 U	49 J	160
Cymene (p-Isopropyltoluene)	µg/m^3	99-87-6	0.46 J	-	-	-	-	-	0.31 U	1.3 U	1.3 U	9.3 U	32 U	9.3 U
Dibromochloromethane	µg/m^3	124-48-1	ND	-	-	-	-	-	0.36 U	1.4 U	1.4 U	11 U	37 U	11 U
Dichlorodifluoromethane (CFC-12)	µg/m^3	75-71-8	570	1460	-	-	-	-	10	2.3 J	2.3 J	10 U	35 U	10 U
Ethylbenzene	µg/m^3	100-41-4	140000	164	-	-	-	-	1.2	1.2 U	1.2 U	8.7 U	30 U	14 J
Hexachlorobutadiene	µg/m^3	87-68-3	ND	19	-	-	-	-	0.83 UJ	3.3 UJ	3.3 UJ	25 UJ	86 UJ	25 U

Table 3

Analytical Results Summary and Commercial Guidance Criteria
Soil Gas Sampling - August 2018
South Dayon Dump and Landfill Site
Moraine, Ohio

Sample Location:									GP13-09	GP14-09	GP14-09	GP15-09	GP16-09	GP19-18
Sample ID:									SVA-38443-082018-GL-014	SVA-38443-082018-GL-015	SVA-38443-082018-GL-016	SVA-38443-082018-GL-017	SVA-38443-082318-GL-028	SVA-38443-082318-GL-034
Sample Date:									8/20/2018	8/20/2018	8/20/2018	8/20/2018	8/23/2018	8/23/2018
											Duplicate			
Parameters	**Units**	**CAS#**	**Max**	**USEPA Subslab VISL Commerical**	**Accelerated Response Action Level Commerial (8 hours)**	**Urgent Response Action Level Commerial (8 hours)**	**Chronic Response Action Level Commercial**	**Removal Management Level Commercial**						
				a	**b**	**c**	**d**	**e**						
Hexane	µg/m^3	110-54-3	630000	10200	-	-	-	-	1.1 J	0.45 U	0.73 J	3.3 U	210	340
Isopropyl alcohol	µg/m^3	67-63-0	160	2920	-	-	-	-	1.6 J	4.2 J	2.5 J	6.8 U	24 U	76 J
Isopropyl benzene	µg/m^3	98-82-8	9800 J	5840	-	-	-	-	0.29 U	1.2 U	1.2 U	8.7 U	30 U	8.7 U
m&p-Xylenes	µg/m^3	M/P-XYLENE	590000	-	-	-	-	-	5.1	3.0 J	2.8 J	15 U	54 U	47
Methyl methacrylate	µg/m^3	80-62-6	1.4 J	10200	-	-	-	-	0.32 U	1.3 U	1.3 U	9.6 U	33 U	9.6 U
Methyl tert butyl ether (MTBE)	µg/m^3	1634-04-4	ND	1570	-	-	-	-	0.61 U	2.5 U	2.5 U	18 U	63 U	18 U
Methylene chloride	µg/m^3	75-09-2	40	8760	-	-	-	-	2.4	4.4 U	5.0 J	33 U	110 U	33 U
Naphthalene	µg/m^3	91-20-3	1.5 J	12	-	-	120	1200	1.0 J	1.9 UJ	1.9 UJ	14 UJ	49 UJ	14 U
N-Butylbenzene	µg/m^3	104-51-8	16 J	-	-	-	-	-	2.0 J	1.3 J	1.3 J	7.5 U	26 U	7.5 U
N-Heptane	µg/m^3	142-82-5	1100000	5840	-	-	-	-	0.44 J	0.77 U	0.77 U	5.7 U	20 U	330
N-Propylbenzene	µg/m^3	103-65-1	95 J	14600	-	-	-	-	1.1 J	1.1 U	1.1 U	8.1 U	28 U	8.1 U
o-Xylene	µg/m^3	95-47-6	180000	1460	-	-	-	-	2.6	1.5 J	1.6 J	7.8 U	27 U	18 J
Styrene	µg/m^3	100-42-5	3.5	14600	-	-	-	-	0.82 J	0.99 U	0.99 U	7.3 U	25 U	7.3 U
tert-Butyl alcohol	µg/m^3	75-65-0	11 J	-	-	-	-	-	4.4 J	2.6 J	0.64 J	5.3 J	12 U	8.3 J
tert-Butylbenzene	µg/m^3	98-06-6	5.7 J	-	-	-	-	-	0.36 U	1.4 U	1.4 U	11 U	37 U	11 U
Tetrachloroethene	µg/m^3	127-18-4	550	584	-	-	5800	18000	1.3 J	330	370	25 J	28 U	8.0 U
Tetrahydrofuran	µg/m^3	109-99-9	4.7 J	29200	-	-	-	-	0.57 J	0.74 U	1.0 J	5.5 U	19 U	5.5 U
Toluene	µg/m^3	108-88-3	1700000	73000	-	-	-	-	4.8	1.9 J	1.9 J	13 U	47 U	71
trans-1,2-Dichloroethene	µg/m^3	156-60-5	330	-	-	-	-	-	0.20 U	1.0 J	1.0 J	57	20 U	30
trans-1,3-Dichloropropene	µg/m^3	10061-02-6	ND	-	-	-	-	-	0.22 U	0.87 U	0.87 U	6.4 U	22 U	6.4 U
Trichloroethene	µg/m^3	79-01-6	27000	29	290	880	-	-	1.3	**520[ab]**	**510[ab]**	**3400[abc]**	20 U	13 J
Trichlorofluoromethane (CFC-11)	µg/m^3	75-69-4	8.7	-	-	-	-	-	0.88 J	1.6 J	1.7 J	4.0 U	14 U	4.0 U
Trifluorotrichloroethane (CFC-113)	µg/m^3	76-13-1	6.6	73000	-	-	-	-	6.6	0.95 U	0.95 U	7.0 U	24 U	7.0 U
Vinyl bromide (Bromoethene)	µg/m^3	593-60-2	ND	13	-	-	-	-	0.15 U	0.61 U	0.61 U	4.5 U	16 U	4.5 U
Vinyl chloride	µg/m^3	75-01-4	2500	93	-	-	930	9300	3.1	0.73 U	0.73 U	14 J	**370[a]**	**2500[ad]**
Xylenes (total)	µg/m^3	1330-20-7	770000	1460	-	-	-	-	7.7	4.5	4.4	ND	ND	65
Total VOCs	µg/m^3	-		-	-	-	-	-	508.83	968.5	966.87	8199.4	11205	6982.5

Notes:

J - Estimated concentration.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
1 - USEPA sub slab or exterior soil gas concentration Vapor Intrusion Screening Levels (VISLs) based on cancer risk 1E 06 and hazard quotient (HQ)=0.1
2 - Ohio EPA accelerated and urgent response action levels and chronic response action level and removal management levels, from the Ohio EPA Guidance Document titled "Recommendations Regarding Response Action Levels and Timeframes for Common Contaminants of Concern at Vapor Intrusion Sites in Ohio", dated August 2016.
- Concentration was greater than applicable criteria.

Table 3

Analytical Results Summary and Commercial Guidance Criteria
Soil Gas Sampling - August 2018
South Dayon Dump and Landfill Site
Moraine, Ohio

Sample Location:									Outdoor Ambient Air near GP19	GP20-18	GP21-09	GP22-13	GP22-13	GP23-13
Sample ID:									SVA-38443-082318-GL-033	SVA-38443-082318-GL-030	SVA-38443-081418-GL-001	SVA-38443-082318-GL-031	SVA-38443-082318-GL-032	SVA-38443-082218-GL-025
Sample Date:									8/23/2018	8/23/2018	8/14/2018	8/23/2018	8/23/2018	8/22/2018
													Duplicate	
Parameters	**Units**	**CAS#**	**Max**	**USEPA Subslab VISL Commerical**	**Accelerated Response Action Level Commerial (8 hours)**	**Urgent Response Action Level Commerial (8 hours)**	**Chronic Response Action Level Commercial**	**Removal Management Level Commercial**						
				a	**b**	**c**	**d**	**e**						
Volatiles														
1,1,1-Trichloroethane	µg/m^3	71-55-6	33	73000	-	-	-	-	0.16 U	22 U	3.3 U	0.27 J	0.26 J	1.6 J
1,1,2,2-Tetrachloroethane	µg/m^3	79-34-5	ND	7	-	-	-	-	0.42 U	57 U	8.4 U	0.42 U	0.42 U	1.7 U
1,1,2-Trichloroethane	µg/m^3	79-00-5	ND	3	-	-	-	-	0.29 U	40 U	5.9 U	0.29 U	0.29 U	1.2 U
1,1-Dichloroethane	µg/m^3	75-34-3	3200	256	-	-	-	-	0.11 U	14 U	4.3 J	1.7	1.7	0.42 U
1,1-Dichloroethene	µg/m^3	75-35-4	24	2920	-	-	-	-	0.13 U	18 U	2.7 U	1.7	1.7	0.54 U
1,2,4-Trichlorobenzene	µg/m^3	120-82-1	ND	29	-	-	-	-	0.73 U	99 U	15 UJ	0.73 U	0.73 U	2.9 U
1,2,4-Trimethylbenzene	µg/m^3	95-63-6	8400 J	876	-	-	-	-	0.31 U	42 U	6.2 U	1.6	1.5	3.0 J
1,2-Dibromoethane (Ethylene dibromide)	µg/m^3	106-93-4	ND	1	-	-	-	-	0.34 U	46 U	6.8 U	0.34 U	0.34 U	1.4 U
1,2-Dichlorobenzene	µg/m^3	95-50-1	ND	2920	-	-	-	-	0.42 U	57 U	8.4 U	0.42 U	0.42 U	1.7 U
1,2-Dichloroethane	µg/m^3	107-06-2	1	16	-	-	-	-	0.19 U	26 U	3.8 U	1.0	0.95	0.76 U
1,2-Dichloropropane	µg/m^3	78-87-5	ND	58	-	-	-	-	0.24 U	33 U	4.8 U	0.24 U	0.24 U	0.96 U
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m^3	76-14-2	310	-	-	-	-	-	0.22 U	30 U	4.5 U	0.22 U	0.22 U	0.89 U
1,3,5-Trimethylbenzene	µg/m^3	108-67-8	52 J	876	-	-	-	-	0.32 U	43 U	6.4 U	0.37 J	0.37 J	1.3 U
1,3-Butadiene	µg/m^3	106-99-0	ND	14	-	-	-	-	0.14 U	19 U	2.8 U	0.14 U	0.14 U	0.57 U
1,3-Dichlorobenzene	µg/m^3	541-73-1	6.9	-	-	-	-	-	0.39 U	53 U	7.8 U	0.58 J	0.64 J	1.6 U
1,3-Dichloropropene	µg/m^3	542-75-6	ND	102	-	-	-	-	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	µg/m^3	106-46-7	74 J	37	-	-	-	-	0.38 U	52 U	7.7 U	0.38 U	0.38 U	1.5 U
1,4-Dioxane	µg/m^3	123-91-1	0.73 J	82	-	-	-	-	0.73 J	39 U	5.8 U	0.29 U	0.29 U	1.2 U
2,2,4-Trimethylpentane	µg/m^3	540-84-1	1800000	-	-	-	-	-	0.18 U	25 U	33 J	0.18 U	0.18 U	1.2 J
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m^3	78-93-3	35 J	73000	-	-	-	-	1.2 J	80 U	12 U	13	12	17
2-Chlorotoluene	µg/m^3	95-49-8	1.5 J	-	-	-	-	-	0.33 U	44 U	6.5 U	0.33 U	0.33 U	1.3 U
2-Hexanone	µg/m^3	591-78-6	8.9 J	438	-	-	-	-	0.24 U	32 U	4.8 U	2.9	2.7	2.6 J
2-Phenylbutane (sec-Butylbenzene)	µg/m^3	135-98-8	47 J	-	-	-	-	-	0.35 U	48 U	7.0 U	0.35 U	0.35 U	1.4 U
4-Ethyl toluene	µg/m^3	622-96-8	72 J	-	-	-	-	-	0.32 U	44 U	6.5 U	0.32 U	0.32 J	1.3 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/m^3	108-10-1	4.3	43800	-	-	-	-	4.3	110 U	16 U	3.8	0.80 U	3.2 U
Acetone	µg/m^3	67-64-1	460	451000	-	-	-	-	12	450 U	67 U	66	56	77
Allyl chloride	µg/m^3	107-05-1	ND	15	-	-	-	-	0.15 U	20 U	3.0 U	0.15 U	0.15 U	0.60 U
Benzene	µg/m^3	71-43-2	110000	52	-	-	-	-	0.45 J	24 U	15	0.83	0.89	0.84 J
Benzyl chloride	µg/m^3	100-44-7	ND	8	-	-	-	-	0.40 U	55 U	8.1 U	0.40 U	0.40 U	1.6 U
Bromodichloromethane	µg/m^3	75-27-4	ND	11	-	-	-	-	0.29 U	40 U	5.9 U	0.29 U	0.29 U	1.2 U
Bromoform	µg/m^3	75-25-2	ND	372	-	-	-	-	0.50 U	67 U	9.9 U	0.50 U	0.50 U	2.0 U
Bromomethane (Methyl bromide)	µg/m^3	74-83-9	0.98 J	73	-	-	-	-	0.12 U	17 U	2.5 U	0.12 U	0.30 J	0.98 J
Butane	µg/m^3	106-97-8	8100	-	-	-	-	-	1.0	24 U	1700	73	67	3.1 J
Carbon disulfide	µg/m^3	75-15-0	270 J	10200	-	-	-	-	0.26 J	13 U	13 J	7.6	8.5	14
Carbon tetrachloride	µg/m^3	56-23-5	36	68	-	-	680	6800	0.44 J	32 U	4.8 U	0.24 U	0.24 U	0.96 U
Chlorobenzene	µg/m^3	108-90-7	110000	730	-	-	-	-	0.23 U	31 U	4.5 U	0.37 J	0.38 J	0.90 U
Chlorodifluoromethane	µg/m^3	75-45-6	580	730000	-	-	-	-	1.7	18 U	84	1.5 J	7.2 J	1.8 J
Chloroethane	µg/m^3	75-00-3	550	146000	-	-	-	-	0.092 U	13 U	1.8 U	0.42 J	0.36 J	0.37 U
Chloroform (Trichloromethane)	µg/m^3	67-66-3	110 J	18	-	-	180	1800	0.19 U	25 U	3.7 U	0.37 J	0.36 J	1.8 J
Chloromethane (Methyl chloride)	µg/m^3	74-87-3	3.5	1310	-	-	-	-	1.1	45 U	6.6 U	0.33 U	0.33 U	1.8 J
cis-1,2-Dichloroethene	µg/m^3	156-59-2	1700	-	-	-	-	-	0.24 U	770	16	22	23	0.95 U
cis-1,3-Dichloropropene	µg/m^3	10061-01-5	ND	-	-	-	-	-	0.34 U	46 U	6.7 U	0.34 U	0.34 U	1.3 U
Cyclohexane	µg/m^3	110-82-7	230000	87600	-	-	-	-	0.14 U	19 U	35	10	10	0.55 U
Cymene (p-Isopropyltoluene)	µg/m^3	99-87-6	0.46 J	-	-	-	-	-	0.31 U	43 U	6.3 U	0.31 U	0.31 U	1.3 U
Dibromochloromethane	µg/m^3	124-48-1	ND	-	-	-	-	-	0.36 U	49 U	7.2 U	0.36 U	0.36 U	1.4 U
Dichlorodifluoromethane (CFC-12)	µg/m^3	75-71-8	570	1460	-	-	-	-	1.3	46 U	6.7 U	1.2	1.1	2.6 J
Ethylbenzene	µg/m^3	100-41-4	140000	164	-	-	-	-	0.30 U	40 U	5.9 U	1.0	1.1	2.7 J
Hexachlorobutadiene	µg/m^3	87-68-3	ND	19	-	-	-	-	0.83 U	110 U	17 UJ	0.83 U	0.83 U	3.3 U

Table 3

Analytical Results Summary and Commercial Guidance Criteria
Soil Gas Sampling - August 2018
South Dayon Dump and Landfill Site
Moraine, Ohio

Sample Location:									Outdoor Ambient Air near GP19	GP20-18	GP21-09	GP22-13	GP22-13	GP23-13
Sample ID:									SVA-38443-082318-GL-033	SVA-38443-082318-GL-030	SVA-38443-081418-GL-001	SVA-38443-082318-GL-031	SVA-38443-082318-GL-032	SVA-38443-082218-GL-025
Sample Date:									8/23/2018	8/23/2018	8/14/2018	8/23/2018	8/23/2018	8/22/2018
													Duplicate	
Parameters	**Units**	**CAS#**	**Max**	**USEPA Subslab VISL Commerical**	**Accelerated Response Action Level Commerial (8 hours)**	**Urgent Response Action Level Commerial (8 hours)**	**Chronic Response Action Level Commercial**	**Removal Management Level Commercial**						
				a	**b**	**c**	**d**	**e**						
Hexane	µg/m^3	110-54-3	630000	10200	-	-	-	-	0.72 J	15 U	52	6.4	7.5	1.2 J
Isopropyl alcohol	µg/m^3	67-63-0	160	2920	-	-	-	-	0.62 J	82 J	14 J	1.9 J	3.1 J	3.6 J
Isopropyl benzene	µg/m^3	98-82-8	9800 J	5840	-	-	-	-	0.29 U	40 U	5.9 U	0.29 U	0.29 U	1.2 U
m&p-Xylenes	µg/m^3	M/P-XYLENE	590000	-	-	-	-	-	0.52 U	71 U	10 U	4.4	4.7	14
Methyl methacrylate	µg/m^3	80-62-6	1.4 J	10200	-	-	-	-	0.32 U	44 U	6.5 U	0.32 U	0.32 U	1.3 U
Methyl tert butyl ether (MTBE)	µg/m^3	1634-04-4	ND	1570	-	-	-	-	0.61 U	83 U	12 U	0.61 U	0.61 U	2.5 U
Methylene chloride	µg/m^3	75-09-2	40	8760	-	-	-	-	1.6 J	150 U	22 U	1.2 J	4.1 J	4.4 U
Naphthalene	µg/m^3	91-20-3	1.5 J	12	-	-	120	1200	0.47 U	64 U	9.4 UJ	0.47 U	0.79 J	1.9 U
N-Butylbenzene	µg/m^3	104-51-8	16 J	-	-	-	-	-	0.25 U	34 U	5.1 U	0.49 J	0.40 J	1.0 U
N-Heptane	µg/m^3	142-82-5	1100000	5840	-	-	-	-	0.22 J	26 U	4.0 J	1.9 J	2.3	1.5 J
N-Propylbenzene	µg/m^3	103-65-1	95 J	14600	-	-	-	-	0.28 U	37 U	5.5 U	0.28 U	0.28 U	1.1 U
o-Xylene	µg/m^3	95-47-6	180000	1460	-	-	-	-	0.26 U	36 U	5.3 U	1.3	1.2	5.1
Styrene	µg/m^3	100-42-5	3.5	14600	-	-	-	-	0.25 U	34 U	4.9 U	0.25 J	0.27 J	0.99 U
tert-Butyl alcohol	µg/m^3	75-65-0	11 J	-	-	-	-	-	0.12 U	16 U	2.3 U	2.3 J	1.9 J	4.1 J
tert-Butylbenzene	µg/m^3	98-06-6	5.7 J	-	-	-	-	-	0.36 U	49 U	7.2 U	1.8 J	1.7 J	1.4 U
Tetrachloroethene	µg/m^3	127-18-4	550	584	-	-	5800	18000	0.78 J	37 U	5.4 U	1.9	1.3 J	1.1 U
Tetrahydrofuran	µg/m^3	109-99-9	4.7 J	29200	-	-	-	-	0.19 U	25 U	3.7 U	0.19 U	0.19 U	0.74 U
Toluene	µg/m^3	108-88-3	1700000	73000	-	-	-	-	0.70 J	61 U	9.0 U	1.3	1.7	7.8
trans-1,2-Dichloroethene	µg/m^3	156-60-5	330	-	-	-	-	-	0.20 U	37 J	4.0 U	3.5	3.5	1.8 J
trans-1,3-Dichloropropene	µg/m^3	10061-02-6	ND	-	-	-	-	-	0.22 U	30 U	4.4 U	0.22 U	0.22 U	0.87 U
Trichloroethene	µg/m^3	79-01-6	27000	29	290	880	-	-	0.19 U	**6700^{abc}**	3.9 U	2.7	2.3	**600^{ab}**
Trichlorofluoromethane (CFC-11)	µg/m^3	75-69-4	8.7	-	-	-	-	-	1.2	18 U	2.7 U	0.13 U	0.36 J	7.3
Trifluorotrichloroethane (CFC-113)	µg/m^3	76-13-1	6.6	73000	-	-	-	-	0.52 J	32 U	4.8 U	0.24 U	0.24 U	0.95 U
Vinyl bromide (Bromoethene)	µg/m^3	593-60-2	ND	13	-	-	-	-	0.15 U	21 U	3.1 U	0.15 U	0.15 U	0.61 U
Vinyl chloride	µg/m^3	75-01-4	2500	93	-	-	930	9300	0.18 U	25 U	3.6 U	42	38	0.73 U
Xylenes (total)	µg/m^3	1330-20-7	770000	1460	-	-	-	-	ND	ND	ND	5.7	5.9	19.1
Total VOCs	µg/m^3	-		-	-	-	-	-	30.84	7589	1970.3	290.25	279.35	797.52

Notes:

J - Estimated concentration.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
1 - USEPA sub slab or exterior soil gas concentration Vapor Intrusion Screening Levels (VISLs) based on cancer risk 1E 06 and hazard quotient (HQ)=0.1
2 - Ohio EPA accelerated and urgent response action levels and chronic response action level and removal management levels, from the Ohio EPA Guidance Document titled "Recommendations Regarding Response Action Levels and Timeframes for Common Contaminants of Concern at Vapor Intrusion Sites in Ohio", dated August 2016.
- Concentration was greater than applicable criteria.

Table 3

Analytical Results Summary and Commercial Guidance Criteria
Soil Gas Sampling - August 2018
South Dayon Dump and Landfill Site
Moraine, Ohio

Sample Location:									GP24A-13	GP24B-13	GP25-18	GP26-18	GP27-18	GP28-18
Sample ID:									SVA-38443-082218-GL-024	SVA-38443-082218-GL-023	SVA-38443-081418-GL-006	SVA-38443-081418-GL-005	SVA-38443-081518-GL-010	SVA-38443-081518-GL-007
Sample Date:									8/22/2018	8/22/2018	8/14/2018	8/14/2018	8/15/2018	8/15/2018
Parameters	**Units**	**CAS#**	**Max**	**USEPA Subslab VISL Commerical**	**Accelerated Response Action Level Commerial (8 hours)**	**Urgent Response Action Level Commerial (8 hours)**	**Chronic Response Action Level Commercial**	**Removal Management Level Commercial**						
				a	**b**	**c**	**d**	**e**						
Volatiles														
1,1,1-Trichloroethane	µg/m^3	71-55-6	33	73000	-	-	-	-	2.2	0.69 J	3.8 J	7.3 U	19 U	7.4 U
1,1,2,2-Tetrachloroethane	µg/m^3	79-34-5	ND	7	-	-	-	-	0.42 U	0.42 U	8.4 U	19 U	48 U	19 U
1,1,2-Trichloroethane	µg/m^3	79-00-5	ND	3	-	-	-	-	0.29 U	0.29 U	5.9 U	13 U	34 U	13 U
1,1-Dichloroethane	µg/m^3	75-34-3	3200	256	-	-	-	-	0.11 U	0.11 U	29	30 J	41 J	19 J
1,1-Dichloroethene	µg/m^3	75-35-4	24	2920	-	-	-	-	0.13 U	0.13 U	24	6.1 U	15 U	6.1 U
1,2,4-Trichlorobenzene	µg/m^3	120-82-1	ND	29	-	-	-	-	0.73 U	0.73 UJ	15 UJ	33 UJ	83 UJ	33 UJ
1,2,4-Trimethylbenzene	µg/m^3	95-63-6	8400 J	876	-	-	-	-	2.6	1.6	12 J	22 J	120	14 U
1,2-Dibromoethane (Ethylene dibromide)	µg/m^3	106-93-4	ND	1	-	-	-	-	0.34 U	0.34 U	6.8 U	15 U	38 U	15 U
1,2-Dichlorobenzene	µg/m^3	95-50-1	ND	2920	-	-	-	-	0.42 U	0.42 U	8.4 U	19 U	48 U	19 U
1,2-Dichloroethane	µg/m^3	107-06-2	1	16	-	-	-	-	0.19 U	0.19 U	3.8 U	8.5 U	22 U	8.7 U
1,2-Dichloropropane	µg/m^3	78-87-5	ND	58	-	-	-	-	0.24 U	0.24 U	4.8 U	11 U	27 U	11 U
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m^3	76-14-2	310	-	-	-	-	-	0.22 U	0.22 U	28	32 J	25 U	10 U
1,3,5-Trimethylbenzene	µg/m^3	108-67-8	52 J	876	-	-	-	-	0.58 J	0.46 J	6.4 U	14 U	52 J	15 U
1,3-Butadiene	µg/m^3	106-99-0	ND	14	-	-	-	-	0.14 U	0.14 U	2.8 U	6.4 U	16 U	6.4 U
1,3-Dichlorobenzene	µg/m^3	541-73-1	6.9	-	-	-	-	-	2.7	0.39 U	7.8 U	18 U	44 U	18 U
1,3-Dichloropropene	µg/m^3	542-75-6	ND	102	-	-	-	-	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	µg/m^3	106-46-7	74 J	37	-	-	-	-	0.38 U	0.38 U	7.7 U	17 U	**74 J[a]**	18 U
1,4-Dioxane	µg/m^3	123-91-1	0.73 J	82	-	-	-	-	0.29 U	0.29 U	5.8 U	13 U	33 U	13 U
2,2,4-Trimethylpentane	µg/m^3	540-84-1	1800000	-	-	-	-	-	0.41 J	1.2 J	10 J	16 J	21 U	8.3 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m^3	78-93-3	35 J	73000	-	-	-	-	18	5.3	12 U	26 U	67 U	27 U
2-Chlorotoluene	µg/m^3	95-49-8	1.5 J	-	-	-	-	-	0.33 U	0.33 U	6.5 U	15 U	37 U	15 U
2-Hexanone	µg/m^3	591-78-6	8.9 J	438	-	-	-	-	2.8	0.90 J	4.8 U	11 U	27 U	11 U
2-Phenylbutane (sec-Butylbenzene)	µg/m^3	135-98-8	47 J	-	-	-	-	-	0.35 U	0.35 U	7.0 U	16 U	40 U	38 J
4-Ethyl toluene	µg/m^3	622-96-8	72 J	-	-	-	-	-	0.59 J	0.52 J	6.5 U	15 U	72 J	15 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/m^3	108-10-1	4.3	43800	-	-	-	-	3.9	1.1 J	16 U	36 U	91 U	36 U
Acetone	µg/m^3	67-64-1	460	451000	-	-	-	-	75	22	67 U	150 U	380 U	150 U
Allyl chloride	µg/m^3	107-05-1	ND	15	-	-	-	-	0.15 U	0.15 U	3.0 U	6.7 U	17 U	6.8 U
Benzene	µg/m^3	71-43-2	110000	52	-	-	-	-	1.2	0.43 J	3.6 U	52	**410[a]**	**87[a]**
Benzyl chloride	µg/m^3	100-44-7	ND	8	-	-	-	-	0.40 U	0.40 U	8.1 U	18 U	46 U	18 U
Bromodichloromethane	µg/m^3	75-27-4	ND	11	-	-	-	-	0.29 U	0.29 U	5.9 U	13 U	34 U	13 U
Bromoform	µg/m^3	75-25-2	ND	372	-	-	-	-	0.50 U	0.50 U	9.9 U	22 U	56 U	23 U
Bromomethane (Methyl bromide)	µg/m^3	74-83-9	0.98 J	73	-	-	-	-	0.18 J	0.12 U	2.5 U	5.6 U	14 U	5.7 U
Butane	µg/m^3	106-97-8	8100	-	-	-	-	-	0.96	2.3	720	1800	8100	3000
Carbon disulfide	µg/m^3	75-15-0	270 J	10200	-	-	-	-	14	12	28 J	240	92 J	27 J
Carbon tetrachloride	µg/m^3	56-23-5	36	68	-	-	680	6800	36	0.34 J	4.8 U	11 U	27 U	11 U
Chlorobenzene	µg/m^3	108-90-7	110000	730	-	-	-	-	0.23 J	0.23 U	4.7 J	22 J	**9200[a]**	**1700[a]**
Chlorodifluoromethane	µg/m^3	75-45-6	580	730000	-	-	-	-	1.8	17	45	48	15 U	12 J
Chloroethane	µg/m^3	75-00-3	550	146000	-	-	-	-	0.14 J	0.092 U	1.8 U	550	41 J	43
Chloroform (Trichloromethane)	µg/m^3	67-66-3	110 J	18	-	-	180	1800	0.29 J	0.19 U	3.7 U	8.3 U	21 U	8.4 U
Chloromethane (Methyl chloride)	µg/m^3	74-87-3	3.5	1310	-	-	-	-	0.67 J	0.47 J	6.6 U	15 U	38 U	15 U
cis-1,2-Dichloroethene	µg/m^3	156-59-2	1700	-	-	-	-	-	0.24 U	0.24 U	4.8 U	13 J	27 U	30 J
cis-1,3-Dichloropropene	µg/m^3	10061-01-5	ND	-	-	-	-	-	0.34 U	0.34 U	6.7 U	15 U	38 U	15 U
Cyclohexane	µg/m^3	110-82-7	230000	87600	-	-	-	-	0.14 U	0.53 J	24 J	72 J	350 J	150
Cymene (p-Isopropyltoluene)	µg/m^3	99-87-6	0.46 J	-	-	-	-	-	0.31 U	0.31 U	6.3 U	14 U	36 U	14 U
Dibromochloromethane	µg/m^3	124-48-1	ND	-	-	-	-	-	0.36 U	0.36 U	7.2 U	16 U	41 U	16 U
Dichlorodifluoromethane (CFC-12)	µg/m^3	75-71-8	570	1460	-	-	-	-	1.5	1.2	12 J	15 U	38 U	15 U
Ethylbenzene	µg/m^3	100-41-4	140000	164	-	-	-	-	2.0	1.9	5.9 U	13 U	150	13 U
Hexachlorobutadiene	µg/m^3	87-68-3	ND	19	-	-	-	-	0.83 U	0.83 UJ	17 UJ	37 UJ	95 UJ	38 UJ

Table 3

Analytical Results Summary and Commercial Guidance Criteria
Soil Gas Sampling - August 2018
South Dayon Dump and Landfill Site
Moraine, Ohio

Sample Location:									GP24A-13	GP24B-13	GP25-18	GP26-18	GP27-18	GP28-18
Sample ID:									SVA-38443-082218-GL-024	SVA-38443-082218-GL-023	SVA-38443-081418-GL-006	SVA-38443-081418-GL-005	SVA-38443-081518-GL-010	SVA-38443-081518-GL-007
Sample Date:									8/22/2018	8/22/2018	8/14/2018	8/14/2018	8/15/2018	8/15/2018
Parameters	**Units**	**CAS#**	**Max**	**USEPA Subslab VISL Commerical**	**Accelerated Response Action Level Commerial (8 hours)**	**Urgent Response Action Level Commerial (8 hours)**	**Chronic Response Action Level Commercial**	**Removal Management Level Commercial**						
				a	**b**	**c**	**d**	**e**						
Hexane	µg/m^3	110-54-3	630000	10200	-	-	-	-	0.76 J	4.7	38	140	3100	1100
Isopropyl alcohol	µg/m^3	67-63-0	160	2920	-	-	-	-	81	3.2 J	6.7 J	10 U	26 U	11 U
Isopropyl benzene	µg/m^3	98-82-8	9800 J	5840	-	-	-	-	1.4 J	0.29 U	5.9 U	13 U	34 U	71 J
m&p-Xylenes	µg/m^3	M/P-XYLENE	590000	-	-	-	-	-	8.6	8.9	13 J	54	350	67
Methyl methacrylate	µg/m^3	80-62-6	1.4 J	10200	-	-	-	-	0.32 U	0.32 U	6.5 U	15 U	37 U	15 U
Methyl tert butyl ether (MTBE)	µg/m^3	1634-04-4	ND	1570	-	-	-	-	0.61 U	0.61 U	12 U	28 U	70 U	28 U
Methylene chloride	µg/m^3	75-09-2	40	8760	-	-	-	-	1.1 U	21	40	50 U	130 U	51 U
Naphthalene	µg/m^3	91-20-3	1.5 J	12	-	-	120	1200	0.47 U	0.47 UJ	9.4 UJ	21 UJ	54 UJ	21 UJ
N-Butylbenzene	µg/m^3	104-51-8	16 J	-	-	-	-	-	0.31 J	0.25 U	5.1 U	11 U	29 U	13 J
N-Heptane	µg/m^3	142-82-5	1100000	5840	-	-	-	-	1.1 J	1.5 J	7.7 J	50 J	1800	390
N-Propylbenzene	µg/m^3	103-65-1	95 J	14600	-	-	-	-	0.40 J	0.29 J	5.5 U	12 U	95 J	13 U
o-Xylene	µg/m^3	95-47-6	180000	1460	-	-	-	-	2.9	3.1	6.1 J	18 J	310	12 U
Styrene	µg/m^3	100-42-5	3.5	14600	-	-	-	-	0.64 J	0.25 U	4.9 U	11 U	28 U	11 U
tert-Butyl alcohol	µg/m^3	75-65-0	11 J	-	-	-	-	-	4.5 J	1.4 J	2.3 U	7.5 J	13 U	5.2 U
tert-Butylbenzene	µg/m^3	98-06-6	5.7 J	-	-	-	-	-	0.36 U	0.36 U	7.2 U	16 U	41 U	16 U
Tetrachloroethene	µg/m^3	127-18-4	550	584	-	-	5800	18000	0.27 U	1.9	5.4 U	12 U	31 U	12 U
Tetrahydrofuran	µg/m^3	109-99-9	4.7 J	29200	-	-	-	-	2.3 J	0.19 U	3.7 U	8.3 U	21 U	8.5 U
Toluene	µg/m^3	108-88-3	1700000	73000	-	-	-	-	4.3	8.0	15	34	540	25 J
trans-1,2-Dichloroethene	µg/m^3	156-60-5	330	-	-	-	-	-	2.3	1.1	4.0 U	8.9 U	23 U	21 J
trans-1,3-Dichloropropene	µg/m^3	10061-02-6	ND	-	-	-	-	-	0.22 U	0.22 U	4.4 U	9.8 U	25 U	9.9 U
Trichloroethene	µg/m^3	79-01-6	27000	29	290	880	-	-	0.75 J	0.19 U	3.9 U	**110**[a]	22 U	11 J
Trichlorofluoromethane (CFC-11)	µg/m^3	75-69-4	8.7	-	-	-	-	-	7.1	3.4	5.0 J	6.1 U	15 U	6.1 U
Trifluorotrichloroethane (CFC-113)	µg/m^3	76-13-1	6.6	73000	-	-	-	-	0.66 J	0.59 J	4.8 U	11 U	27 U	11 U
Vinyl bromide (Bromoethene)	µg/m^3	593-60-2	ND	13	-	-	-	-	0.15 U	0.15 U	3.1 U	6.9 U	17 U	7.0 U
Vinyl chloride	µg/m^3	75-01-4	2500	93	-	-	930	9300	0.30 J	0.18 U	75	77	21 U	**160**[a]
Xylenes (total)	µg/m^3	1330-20-7	770000	1460	-	-	-	-	11.5	12	19.1	72	660	67
Total VOCs	µg/m^3	-		-	-	-	-	-	298.57	141.02	1166.1	3459.5	25557	7031

Notes:

J - Estimated concentration.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
1 - USEPA sub slab or exterior soil gas concentration Vapor Intrusion Screening Levels (VISLs) based on cancer risk 1E 06 and hazard quotient (HQ)=0.1
2 - Ohio EPA accelerated and urgent response action levels and chronic response action level and removal management levels, from the Ohio EPA Guidance Document titled "Recommendations Regarding Response Action Levels and Timeframes for Common Contaminants of Concern at Vapor Intrusion Sites in Ohio", dated August 2016.
- Concentration was greater than applicable criteria.

Table 3

Analytical Results Summary and Commercial Guidance Criteria
Soil Gas Sampling - August 2018
South Dayon Dump and Landfill Site
Moraine, Ohio

Sample Location:									GP28-18	GP29-18	GP30-18	GP31-18	GP32-18	GP33-18
Sample ID:									SVA-38443-081518-GL-008	SVA-38443-081518-GL-009	SVA-38443-082218-GL-027	SVA-38443-082218-GL-026	SVA-38443-082418-GL-035	SVA-38443-082318-GL-029
Sample Date:									8/15/2018	8/15/2018	8/22/2018	8/22/2018	8/24/2018	8/23/2018
									Duplicate					
Parameters	**Units**	**CAS#**	**Max**	**USEPA Subslab VISL Commerical**	**Accelerated Response Action Level Commerial (8 hours)**	**Urgent Response Action Level Commerial (8 hours)**	**Chronic Response Action Level Commercial**	**Removal Management Level Commercial**						
				a	b	c	d	e						
Volatiles														
1,1,1-Trichloroethane	µg/m^3	71-55-6	33	73000	-	-	-	-	6.4 U	7.8 J	0.16 U	44 U	15	0.16 U
1,1,2,2-Tetrachloroethane	µg/m^3	79-34-5	ND	7	-	-	-	-	16 U	8.4 U	0.42 U	110 U	4.2 U	0.42 U
1,1,2-Trichloroethane	µg/m^3	79-00-5	ND	3	-	-	-	-	11 U	5.9 U	0.29 U	79 U	2.9 U	0.29 U
1,1-Dichloroethane	µg/m^3	75-34-3	3200	256	-	-	-	-	20 J	4.7 J	0.11 U	28 U	1.5 J	0.11 U
1,1-Dichloroethene	µg/m^3	75-35-4	24	2920	-	-	-	-	5.2 U	2.7 U	0.13 U	36 U	1.3 U	0.13 U
1,2,4-Trichlorobenzene	µg/m^3	120-82-1	ND	29	-	-	-	-	28 UJ	15 UJ	0.73 U	190 U	7.3 U	0.73 UJ
1,2,4-Trimethylbenzene	µg/m^3	95-63-6	8400 J	876	-	-	-	-	12 U	14 J	3.2	83 U	3.1 U	1.7
1,2-Dibromoethane (Ethylene dibromide)	µg/m^3	106-93-4	ND	1	-	-	-	-	13 U	6.8 U	0.34 U	91 U	3.4 U	0.34 U
1,2-Dichlorobenzene	µg/m^3	95-50-1	ND	2920	-	-	-	-	16 U	8.4 U	0.42 U	110 U	4.2 U	0.42 U
1,2-Dichloroethane	µg/m^3	107-06-2	1	16	-	-	-	-	7.4 U	3.8 U	0.19 U	51 U	1.9 U	0.19 U
1,2-Dichloropropane	µg/m^3	78-87-5	ND	58	-	-	-	-	9.3 U	4.8 U	0.24 U	64 U	2.4 U	0.24 U
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m^3	76-14-2	310	-	-	-	-	-	8.7 U	92	0.22 U	60 U	11 J	0.22 U
1,3,5-Trimethylbenzene	µg/m^3	108-67-8	52 J	876	-	-	-	-	12 U	7.6 J	0.85 J	86 U	3.2 U	0.37 J
1,3-Butadiene	µg/m^3	106-99-0	ND	14	-	-	-	-	5.5 U	2.8 U	0.14 U	38 U	1.4 U	0.14 U
1,3-Dichlorobenzene	µg/m^3	541-73-1	6.9	-	-	-	-	-	15 U	7.8 U	6.9	100 U	3.9 U	2.0
1,3-Dichloropropene	µg/m^3	542-75-6	ND	102	-	-	-	-	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	µg/m^3	106-46-7	74 J	37	-	-	-	-	15 U	7.7 U	0.38 U	100 U	3.8 U	0.38 U
1,4-Dioxane	µg/m^3	123-91-1	0.73 J	82	-	-	-	-	11 U	5.8 U	0.43 J	77 U	2.9 U	0.29 U
2,2,4-Trimethylpentane	µg/m^3	540-84-1	1800000	-	-	-	-	-	7.1 U	3.6 U	0.90 J	49 U	1.8 U	1.9 J
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m^3	78-93-3	35 J	73000	-	-	-	-	23 U	12 U	12	160 U	5.9 U	5.4
2-Chlorotoluene	µg/m^3	95-49-8	1.5 J	-	-	-	-	-	13 U	6.5 U	0.33 U	87 U	3.3 U	0.33 U
2-Hexanone	µg/m^3	591-78-6	8.9 J	438	-	-	-	-	9.2 U	4.8 U	1.7 J	64 U	2.4 U	0.91 J
2-Phenylbutane (sec-Butylbenzene)	µg/m^3	135-98-8	47 J	-	-	-	-	-	47 J	30 J	0.35 U	94 U	3.5 U	0.35 U
4-Ethyl toluene	µg/m^3	622-96-8	72 J	-	-	-	-	-	13 U	11 J	0.75 J	87 U	3.2 U	0.39 J
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/m^3	108-10-1	4.3	43800	-	-	-	-	31 U	16 U	1.1 J	210 U	8.0 U	1.0 J
Acetone	µg/m^3	67-64-1	460	451000	-	-	-	-	130 U	67 U	120	890 U	37 J	28
Allyl chloride	µg/m^3	107-05-1	ND	15	-	-	-	-	5.8 U	3.0 U	0.15 U	40 U	1.5 U	0.15 U
Benzene	µg/m^3	71-43-2	110000	52	-	-	-	-	**120[a]**	40	1.5	48 U	3.6 J	0.67
Benzyl chloride	µg/m^3	100-44-7	ND	8	-	-	-	-	16 U	8.1 U	0.40 U	110 U	4.0 U	0.40 U
Bromodichloromethane	µg/m^3	75-27-4	ND	11	-	-	-	-	11 U	5.9 U	0.29 U	79 U	2.9 U	0.29 U
Bromoform	µg/m^3	75-25-2	ND	372	-	-	-	-	19 U	9.9 U	0.50 U	130 U	5.0 U	0.50 U
Bromomethane (Methyl bromide)	µg/m^3	74-83-9	0.98 J	73	-	-	-	-	4.8 U	2.5 U	0.12 U	33 U	1.2 U	0.12 U
Butane	µg/m^3	106-97-8	8100	-	-	-	-	-	3700	4800	1.4	46 U	5.1 J	1.5
Carbon disulfide	µg/m^3	75-15-0	270 J	10200	-	-	-	-	38 J	17 J	65	270 J	69	1.6
Carbon tetrachloride	µg/m^3	56-23-5	36	68	-	-	680	6800	9.3 U	4.8 U	0.27 J	64 U	2.4 U	0.39 J
Chlorobenzene	µg/m^3	108-90-7	110000	730	-	-	-	-	**2200[a]**	4.5 U	0.23 U	60 U	2.3 U	0.23 U
Chlorodifluoromethane	µg/m^3	75-45-6	580	730000	-	-	-	-	17 J	14 J	3.0	35 U	4.7 J	7.8
Chloroethane	µg/m^3	75-00-3	550	146000	-	-	-	-	44	3.8 J	0.27 J	25 U	0.92 U	0.092 U
Chloroform (Trichloromethane)	µg/m^3	67-66-3	110 J	18	-	-	180	1800	7.2 U	3.7 U	0.19 U	**110 J[a]**	8.0 J	0.96
Chloromethane (Methyl chloride)	µg/m^3	74-87-3	3.5	1310	-	-	-	-	13 U	6.6 U	3.5	89 U	3.3 U	0.89 J
cis-1,2-Dichloroethene	µg/m^3	156-59-2	1700	-	-	-	-	-	34	95	0.24 U	1000	4.7 J	0.24 U
cis-1,3-Dichloropropene	µg/m^3	10061-01-5	ND	-	-	-	-	-	13 U	6.7 U	0.34 U	90 U	3.4 U	0.34 U
Cyclohexane	µg/m^3	110-82-7	230000	87600	-	-	-	-	210	36	0.14 U	37 U	1.4 U	0.14 U
Cymene (p-Isopropyltoluene)	µg/m^3	99-87-6	0.46 J	-	-	-	-	-	12 U	6.3 U	0.31 U	84 U	3.1 U	0.31 U
Dibromochloromethane	µg/m^3	124-48-1	ND	-	-	-	-	-	14 U	7.2 U	0.36 U	96 U	3.6 U	0.36 U
Dichlorodifluoromethane (CFC-12)	µg/m^3	75-71-8	570	1460	-	-	-	-	13 U	51	0.46 J	90 U	29	1.3
Ethylbenzene	µg/m^3	100-41-4	140000	164	-	-	-	-	13 J	14 J	2.7	79 U	3.0 U	1.1
Hexachlorobutadiene	µg/m^3	87-68-3	ND	19	-	-	-	-	32 UJ	17 UJ	0.83 U	220 U	8.3 U	0.83 UJ

Table 3

Analytical Results Summary and Commercial Guidance Criteria
Soil Gas Sampling - August 2018
South Dayon Dump and Landfill Site
Moraine, Ohio

Sample Location:									GP28-18	GP29-18	GP30-18	GP31-18	GP32-18	GP33-18
Sample ID:									SVA-38443-081518-GL-008	SVA-38443-081518-GL-009	SVA-38443-082218-GL-027	SVA-38443-082218-GL-026	SVA-38443-082418-GL-035	SVA-38443-082318-GL-029
Sample Date:									8/15/2018	8/15/2018	8/22/2018	8/22/2018	8/24/2018	8/23/2018
									Duplicate					
Parameters	**Units**	**CAS#**	**Max**	**USEPA Subslab VISL Commerical**	**Accelerated Response Action Level Commerial (8 hours)**	**Urgent Response Action Level Commerial (8 hours)**	**Chronic Response Action Level Commercial**	**Removal Management Level Commercial**						
				a	**b**	**c**	**d**	**e**						
Hexane	µg/m^3	110-54-3	630000	10200	-	-	-	-	1400	790	1.1 J	30 U	2.1 J	1.0 J
Isopropyl alcohol	µg/m^3	67-63-0	160	2920	-	-	-	-	9.0 U	5.1 J	90	120 J	46 J	27
Isopropyl benzene	µg/m^3	98-82-8	9800 J	5840	-	-	-	-	92	74	2.3	79 U	2.9 U	0.81 J
m&p-Xylenes	µg/m^3	M/P-XYLENE	590000	-	-	-	-	-	92	15 J	11	140 U	5.2 U	4.9
Methyl methacrylate	µg/m^3	80-62-6	1.4 J	10200	-	-	-	-	13 U	6.5 U	0.32 U	87 U	3.2 U	0.32 U
Methyl tert butyl ether (MTBE)	µg/m^3	1634-04-4	ND	1570	-	-	-	-	24 U	12 U	0.61 U	160 U	6.1 U	0.61 U
Methylene chloride	µg/m^3	75-09-2	40	8760	-	-	-	-	43 U	22 U	1.6 J	300 U	11 U	3.0
Naphthalene	µg/m^3	91-20-3	1.5 J	12	-	-	120	1200	18 UJ	9.4 UJ	0.47 U	130 U	4.7 U	0.47 UJ
N-Butylbenzene	µg/m^3	104-51-8	16 J	-	-	-	-	-	16 J	12 J	0.39 J	68 U	2.5 U	0.25 U
N-Heptane	µg/m^3	142-82-5	1100000	5840	-	-	-	-	520	400	1.6 J	52 U	1.9 U	0.93 J
N-Propylbenzene	µg/m^3	103-65-1	95 J	14600	-	-	-	-	11 U	66	0.50 J	74 U	2.8 U	0.28 U
o-Xylene	µg/m^3	95-47-6	180000	1460	-	-	-	-	15 J	13 J	4.1	71 U	2.6 U	1.7
Styrene	µg/m^3	100-42-5	3.5	14600	-	-	-	-	9.6 U	4.9 U	0.94	66 U	2.5 U	0.32 J
tert-Butyl alcohol	µg/m^3	75-65-0	11 J	-	-	-	-	-	4.5 U	3.6 J	4.3 J	31 U	6.0 J	2.2 J
tert-Butylbenzene	µg/m^3	98-06-6	5.7 J	-	-	-	-	-	14 U	7.2 U	0.36 U	97 U	3.6 U	0.36 U
Tetrachloroethene	µg/m^3	127-18-4	550	584	-	-	5800	18000	11 U	68	0.27 U	73 U	2.7 U	2.2
Tetrahydrofuran	µg/m^3	109-99-9	4.7 J	29200	-	-	-	-	7.2 U	3.7 U	2.7 J	50 U	3.0 J	0.96 J
Toluene	µg/m^3	108-88-3	1700000	73000	-	-	-	-	31	23	7.2	120 U	4.5 U	2.8
trans-1,2-Dichloroethene	µg/m^3	156-60-5	330	-	-	-	-	-	28 J	5.8 J	4.1	330	2.9 J	2.6
trans-1,3-Dichloropropene	µg/m^3	10061-02-6	ND	-	-	-	-	-	8.5 U	4.4 U	0.22 U	58 U	2.2 U	0.22 U
Trichloroethene	µg/m^3	79-01-6	27000	29	290	880	-	-	7.5 U	17 J	2.1	**27000[abc]**	**590[ab]**	15
Trichlorofluoromethane (CFC-11)	µg/m^3	75-69-4	8.7	-	-	-	-	-	5.2 U	2.7 U	0.56 J	36 U	3.1 J	1.1
Trifluorotrichloroethane (CFC-113)	µg/m^3	76-13-1	6.6	73000	-	-	-	-	9.2 U	4.8 U	0.24 U	64 U	2.4 U	0.45 J
Vinyl bromide (Bromoethene)	µg/m^3	593-60-2	ND	13	-	-	-	-	5.9 U	3.1 U	0.15 U	41 U	1.5 U	0.15 U
Vinyl chloride	µg/m^3	75-01-4	2500	93	-	-	930	9300	**200[a]**	53	0.18 U	49 U	1.8 U	0.18 U
Xylenes (total)	µg/m^3	1330-20-7	770000	1460	-	-	-	-	107	28	15.1	ND	ND	6.6
Total VOCs	µg/m^3	-		-	-	-	-	-	8944	6811.4	375.52	28830	841.7	131.45

Notes:

J - Estimated concentration.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
1 - USEPA sub slab or exterior soil gas concentration Vapor Intrusion Screening Levels (VISLs) based on cancer risk 1E 06 and hazard quotient (HQ)=0.1
2 - Ohio EPA accelerated and urgent response action levels and chronic response action level and removal management levels, from the Ohio EPA Guidance Document titled "Recommendations Regarding Response Action Levels and Timeframes for Common Contaminants of Concern at Vapor Intrusion Sites in Ohio", dated August 2016.
- Concentration was greater than applicable criteria.

Table 3

Analytical Results Summary and Commercial Guidance Criteria
Soil Gas Sampling - August 2018
South Dayon Dump and Landfill Site
Moraine, Ohio

Sample Location:									GP34-18	Trip Blank
Sample ID:									SVA-38443-082218-GL-022	TB-38443-082318-GL-001
Sample Date:									8/22/2018	8/23/2018
Parameters	**Units**	**CAS#**	**Max**	**USEPA Subslab VISL Commerical**	**Accelerated Response Action Level Commerial (8 hours)**	**Urgent Response Action Level Commerial (8 hours)**	**Chronic Response Action Level Commercial**	**Removal Management Level Commercial**		
				a	**b**	**c**	**d**	**e**		
Volatiles										
1,1,1-Trichloroethane	µg/m^3	71-55-6	33	73000	-	-	-	-	1.8	0.16 U
1,1,2,2-Tetrachloroethane	µg/m^3	79-34-5	ND	7	-	-	-	-	0.42 U	0.42 U
1,1,2-Trichloroethane	µg/m^3	79-00-5	ND	3	-	-	-	-	0.29 U	0.29 U
1,1-Dichloroethane	µg/m^3	75-34-3	3200	256	-	-	-	-	0.11 U	0.11 U
1,1-Dichloroethene	µg/m^3	75-35-4	24	2920	-	-	-	-	0.13 U	0.13 U
1,2,4-Trichlorobenzene	µg/m^3	120-82-1	ND	29	-	-	-	-	0.73 UJ	0.73 U
1,2,4-Trimethylbenzene	µg/m^3	95-63-6	8400 J	876	-	-	-	-	1.8	0.31 U
1,2-Dibromoethane (Ethylene dibromide)	µg/m^3	106-93-4	ND	1	-	-	-	-	0.34 U	0.34 U
1,2-Dichlorobenzene	µg/m^3	95-50-1	ND	2920	-	-	-	-	0.42 U	0.42 U
1,2-Dichloroethane	µg/m^3	107-06-2	1	16	-	-	-	-	0.19 U	0.19 U
1,2-Dichloropropane	µg/m^3	78-87-5	ND	58	-	-	-	-	0.24 U	0.24 U
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m^3	76-14-2	310	-	-	-	-	-	0.22 U	0.22 U
1,3,5-Trimethylbenzene	µg/m^3	108-67-8	52 J	876	-	-	-	-	0.39 J	0.32 U
1,3-Butadiene	µg/m^3	106-99-0	ND	14	-	-	-	-	0.14 U	0.14 U
1,3-Dichlorobenzene	µg/m^3	541-73-1	6.9	-	-	-	-	-	2.3	0.39 U
1,3-Dichloropropene	µg/m^3	542-75-6	ND	102	-	-	-	-	ND	-
1,4-Dichlorobenzene	µg/m^3	106-46-7	74 J	37	-	-	-	-	0.38 U	0.38 U
1,4-Dioxane	µg/m^3	123-91-1	0.73 J	82	-	-	-	-	0.29 U	0.29 U
2,2,4-Trimethylpentane	µg/m^3	540-84-1	1800000	-	-	-	-	-	0.88 J	0.18 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m^3	78-93-3	35 J	73000	-	-	-	-	7.8	0.59 U
2-Chlorotoluene	µg/m^3	95-49-8	1.5 J	-	-	-	-	-	0.33 U	0.33 U
2-Hexanone	µg/m^3	591-78-6	8.9 J	438	-	-	-	-	1.3 J	0.24 U
2-Phenylbutane (sec-Butylbenzene)	µg/m^3	135-98-8	47 J	-	-	-	-	-	0.35 U	0.35 U
4-Ethyl toluene	µg/m^3	622-96-8	72 J	-	-	-	-	-	0.46 J	0.32 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/m^3	108-10-1	4.3	43800	-	-	-	-	0.90 J	0.80 U
Acetone	µg/m^3	67-64-1	460	451000	-	-	-	-	35	3.3 U
Allyl chloride	µg/m^3	107-05-1	ND	15	-	-	-	-	0.15 U	0.15 U
Benzene	µg/m^3	71-43-2	110000	52	-	-	-	-	0.81	0.18 U
Benzyl chloride	µg/m^3	100-44-7	ND	8	-	-	-	-	0.40 U	0.40 U
Bromodichloromethane	µg/m^3	75-27-4	ND	11	-	-	-	-	0.29 U	0.29 U
Bromoform	µg/m^3	75-25-2	ND	372	-	-	-	-	0.50 U	0.50 U
Bromomethane (Methyl bromide)	µg/m^3	74-83-9	0.98 J	73	-	-	-	-	0.12 U	0.12 U
Butane	µg/m^3	106-97-8	8100	-	-	-	-	-	0.82 J	0.17 U
Carbon disulfide	µg/m^3	75-15-0	270 J	10200	-	-	-	-	21	0.097 U
Carbon tetrachloride	µg/m^3	56-23-5	36	68	-	-	680	6800	0.24 U	0.24 U
Chlorobenzene	µg/m^3	108-90-7	110000	730	-	-	-	-	0.23 U	0.23 U
Chlorodifluoromethane	µg/m^3	75-45-6	580	730000	-	-	-	-	4.6	0.29 J
Chloroethane	µg/m^3	75-00-3	550	146000	-	-	-	-	0.092 U	0.092 U
Chloroform (Trichloromethane)	µg/m^3	67-66-3	110 J	18	-	-	180	1800	0.24 J	0.19 U
Chloromethane (Methyl chloride)	µg/m^3	74-87-3	3.5	1310	-	-	-	-	1.5	0.33 U
cis-1,2-Dichloroethene	µg/m^3	156-59-2	1700	-	-	-	-	-	0.24 U	0.24 U
cis-1,3-Dichloropropene	µg/m^3	10061-01-5	ND	-	-	-	-	-	0.34 U	0.34 U
Cyclohexane	µg/m^3	110-82-7	230000	87600	-	-	-	-	0.20 J	0.14 U
Cymene (p-Isopropyltoluene)	µg/m^3	99-87-6	0.46 J	-	-	-	-	-	0.31 U	0.31 U
Dibromochloromethane	µg/m^3	124-48-1	ND	-	-	-	-	-	0.36 U	0.36 U
Dichlorodifluoromethane (CFC-12)	µg/m^3	75-71-8	570	1460	-	-	-	-	1.8	0.34 U
Ethylbenzene	µg/m^3	100-41-4	140000	164	-	-	-	-	1.6	0.30 U
Hexachlorobutadiene	µg/m^3	87-68-3	ND	19	-	-	-	-	0.83 UJ	0.83 U

Table 3

Analytical Results Summary and Commercial Guidance Criteria
Soil Gas Sampling - August 2018
South Dayon Dump and Landfill Site
Moraine, Ohio

Sample Location:									**GP34-18**	**Trip Blank**
Sample ID:									**SVA-38443-082218-GL-022**	**TB-38443-082318-GL-001**
Sample Date:									**8/22/2018**	**8/23/2018**
Parameters	**Units**	**CAS#**	**Max**	**USEPA Subslab VISL Commerical**	**Accelerated Response Action Level Commerial (8 hours)**	**Urgent Response Action Level Commerial (8 hours)**	**Chronic Response Action Level Commercial**	**Removal Management Level Commercial**		
				a	**b**	**c**	**d**	**e**		
Hexane	µg/m^3	110-54-3	630000	10200	-	-	-	-	0.93 J	0.11 U
Isopropyl alcohol	µg/m^3	67-63-0	160	2920	-	-	-	-	43	0.23 U
Isopropyl benzene	µg/m^3	98-82-8	9800 J	5840	-	-	-	-	1.2 J	0.29 U
m&p-Xylenes	µg/m^3	M/P-XYLENE	590000	-	-	-	-	-	6.7	0.52 U
Methyl methacrylate	µg/m^3	80-62-6	1.4 J	10200	-	-	-	-	0.32 U	0.32 U
Methyl tert butyl ether (MTBE)	µg/m^3	1634-04-4	ND	1570	-	-	-	-	0.61 U	0.61 U
Methylene chloride	µg/m^3	75-09-2	40	8760	-	-	-	-	1.2 J	1.1 U
Naphthalene	µg/m^3	91-20-3	1.5 J	12	-	-	120	1200	0.47 UJ	0.47 U
N-Butylbenzene	µg/m^3	104-51-8	16 J	-	-	-	-	-	0.25 U	0.25 U
N-Heptane	µg/m^3	142-82-5	1100000	5840	-	-	-	-	1.3 J	0.19 U
N-Propylbenzene	µg/m^3	103-65-1	95 J	14600	-	-	-	-	0.28 J	0.28 U
o-Xylene	µg/m^3	95-47-6	180000	1460	-	-	-	-	2.2	0.26 U
Styrene	µg/m^3	100-42-5	3.5	14600	-	-	-	-	0.53 J	0.25 U
tert-Butyl alcohol	µg/m^3	75-65-0	11 J	-	-	-	-	-	2.2 J	0.12 J
tert-Butylbenzene	µg/m^3	98-06-6	5.7 J	-	-	-	-	-	0.36 U	0.36 U
Tetrachloroethene	µg/m^3	127-18-4	550	584	-	-	5800	18000	66	0.27 U
Tetrahydrofuran	µg/m^3	109-99-9	4.7 J	29200	-	-	-	-	1.7 J	0.19 U
Toluene	µg/m^3	108-88-3	1700000	73000	-	-	-	-	4.5	0.45 U
trans-1,2-Dichloroethene	µg/m^3	156-60-5	330	-	-	-	-	-	1.3	0.20 U
trans-1,3-Dichloropropene	µg/m^3	10061-02-6	ND	-	-	-	-	-	0.22 U	0.22 U
Trichloroethene	µg/m^3	79-01-6	27000	29	290	880	-	-	0.19 U	0.19 U
Trichlorofluoromethane (CFC-11)	µg/m^3	75-69-4	8.7	-	-	-	-	-	4.8	0.13 U
Trifluorotrichloroethane (CFC-113)	µg/m^3	76-13-1	6.6	73000	-	-	-	-	0.93 J	0.24 U
Vinyl bromide (Bromoethene)	µg/m^3	593-60-2	ND	13	-	-	-	-	0.15 U	0.15 U
Vinyl chloride	µg/m^3	75-01-4	2500	93	-	-	930	9300	0.21 J	0.18 U
Xylenes (total)	µg/m^3	1330-20-7	770000	1460	-	-	-	-	8.9	-
Total VOCs	µg/m^3	-		-	-	-	-	-	233.08	0.41

Notes:

J - Estimated concentration.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
1 - USEPA sub slab or exterior soil gas concentration Vapor Intrusion Screening Levels (VISLs) based on cancer risk 1E 06 and hazard quotient (HQ)=0.1
2 - Ohio EPA accelerated and urgent response action levels and chronic response action level and removal management levels, from the Ohio EPA Guidance Document titled "Recommendations Regarding Response Action Levels and Timeframes for Common Contaminants of Concern at Vapor Intrusion Sites in Ohio", dated August 2016.
- Concentration was greater than applicable criteria.

Table 4

Analytical Results Summary and Residential Guidance Criteria
Soil Gas Sampling - August 2018
South Dayon Dump and Landfill Site
Moraine, Ohio

Sample Location:									GP01-18	GP01-18	GP02-09	GP03-09	GP04-09	GP05-09
Sample ID:									SVA-38443-082418-GL-036	SVA-38443-082418-GL-037	SVA-38443-081518-GL-011	SVA-38443-081418-GL-004	SVA-38443-081418-GL-002	SVA-38443-081418-GL-003
Sample Date:									8/24/2018	8/24/2018	8/15/2018	8/14/2018	8/14/2018	8/14/2018
										Duplicate				
Parameters	**Units**	**CAS#**	**Max**	**USEPA Subslab VISL Residential**	**Accelerated Response Action Level Residential (24 hours)**	**Urgent Response Action Level Residential (24 hours)**	**Chronic Response Action Level Residential**	**Removal Management Level Residential**						
				a	**b**	**c**	**d**	**e**						
Volatiles														
1,1,1-Trichloroethane	µg/m^3	71-55-6	33	17400	-	-	-	-	32 U	34 U	2.2 U	33	2.1 J	2.4
1,1,2,2-Tetrachloroethane	µg/m^3	79-34-5	ND	2	-	-	-	-	83 U	87 U	5.7 U	0.42 U	4.2 U	0.42 U
1,1,2-Trichloroethane	µg/m^3	79-00-5	ND	1	-	-	-	-	58 U	61 U	4.0 U	0.29 U	2.9 U	0.29 U
1,1-Dichloroethane	µg/m^3	75-34-3	3200	59	-	-	-	-	21 U	22 U	1.6 J	4.7	29	0.11 U
1,1-Dichloroethene	µg/m^3	75-35-4	24	695	-	-	-	-	27 U	28 U	1.8 U	0.13 U	1.3 U	0.13 U
1,2,4-Trichlorobenzene	µg/m^3	120-82-1	ND	7	-	-	-	-	140 U	150 U	9.9 UJ	0.73 UJ	7.3 UJ	0.73 UJ
1,2,4-Trimethylbenzene	µg/m^3	95-63-6	8400 J	209	-	-	-	-	61 U	64 U	15	17	19	16
1,2-Dibromoethane (Ethylene dibromide)	µg/m^3	106-93-4	ND	0	-	-	-	-	67 U	70 U	4.6 U	0.34 U	3.4 U	0.34 U
1,2-Dichlorobenzene	µg/m^3	95-50-1	ND	695	-	-	-	-	83 U	87 U	5.7 U	0.42 U	4.2 U	0.42 U
1,2-Dichloroethane	µg/m^3	107-06-2	1	4	-	-	-	-	38 U	39 U	2.6 U	0.19 U	1.9 U	0.19 U
1,2-Dichloropropane	µg/m^3	78-87-5	ND	14	-	-	-	-	48 U	50 U	3.3 U	0.24 U	2.4 U	0.24 U
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m^3	76-14-2	310	-	-	-	-	-	110 J	120 J	310	0.22 U	2.2 U	0.22 J
1,3,5-Trimethylbenzene	µg/m^3	108-67-8	52 J	209	-	-	-	-	63 U	66 U	4.3 U	4.8	5.7 J	4.4
1,3-Butadiene	µg/m^3	106-99-0	ND	3	-	-	-	-	28 U	29 U	1.9 U	0.14 U	1.4 U	0.14 U
1,3-Dichlorobenzene	µg/m^3	541-73-1	6.9	-	-	-	-	-	77 U	81 U	5.3 U	0.39 U	3.9 U	0.39 U
1,3-Dichloropropene	µg/m^3	542-75-6	ND	23	-	-	-	-	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	µg/m^3	106-46-7	74 J	9	-	-	-	-	76 U	80 U	5.2 U	0.38 U	3.8 U	0.38 U
1,4-Dioxane	µg/m^3	123-91-1	0.73 J	19	-	-	-	-	57 U	60 U	3.9 U	0.29 U	2.9 U	0.29 U
2,2,4-Trimethylpentane	µg/m^3	540-84-1	1800000	-	-	-	-	-	3500	3600	2.5 U	0.18 U	26	0.18 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m^3	78-93-3	35 J	17400	-	-	-	-	120 U	120 U	8.0 U	9.8	24 J	10
2-Chlorotoluene	µg/m^3	95-49-8	1.5 J	-	-	-	-	-	65 U	67 U	4.4 U	0.33 U	3.3 U	0.33 U
2-Hexanone	µg/m^3	591-78-6	8.9 J	104	-	-	-	-	47 U	49 U	8.9 J	1.9 J	2.4 U	1.5 J
2-Phenylbutane (sec-Butylbenzene)	µg/m^3	135-98-8	47 J	-	-	-	-	-	70 U	73 U	4.8 U	0.35 U	3.5 U	0.35 U
4-Ethyl toluene	µg/m^3	622-96-8	72 J	-	-	-	-	-	64 U	67 U	4.5 J	5.7	6.5 J	5.3
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/m^3	108-10-1	4.3	10400	-	-	-	-	160 U	170 U	11 U	0.86 J	8.0 U	1.4 J
Acetone	µg/m^3	67-64-1	460	107000	-	-	-	-	660 U	690 U	58 J	100	460	78
Allyl chloride	µg/m^3	107-05-1	ND	3	-	-	-	-	30 U	31 U	2.0 U	0.15 U	1.5 U	0.15 U
Benzene	µg/m^3	71-43-2	110000	12	-	-	-	-	**2200[a]**	**2100[a]**	9.6	0.57 J	3.0 J	0.41 J
Benzyl chloride	µg/m^3	100-44-7	ND	2	-	-	-	-	80 U	84 U	5.5 U	0.40 U	4.0 U	0.40 U
Bromodichloromethane	µg/m^3	75-27-4	ND	3	-	-	-	-	58 U	61 U	4.0 U	0.29 U	2.9 U	0.29 U
Bromoform	µg/m^3	75-25-2	ND	85	-	-	-	-	98 U	100 U	6.7 U	0.50 U	5.0 U	0.50 U
Bromomethane (Methyl bromide)	µg/m^3	74-83-9	0.98 J	17	-	-	-	-	25 U	26 U	1.7 U	0.35 J	1.2 U	0.19 J
Butane	µg/m^3	106-97-8	8100	-	-	-	-	-	4000	3800	740	0.81 J	610	0.74 J
Carbon disulfide	µg/m^3	75-15-0	270 J	2430	-	-	-	-	58 J	54 J	15 J	26	66	15
Carbon tetrachloride	µg/m^3	56-23-5	36	16	-	-	160	1600	47 U	49 U	3.3 U	0.24 U	2.4 U	0.24 U
Chlorobenzene	µg/m^3	108-90-7	110000	174	-	-	-	-	**110000[a]**	**110000[a]**	3.1 U	0.23 U	2.3 U	0.23 U
Chlorodifluoromethane	µg/m^3	75-45-6	580	174000	-	-	-	-	580	540	470	0.52 J	32	1.1
Chloroethane	µg/m^3	75-00-3	550	34800	-	-	-	-	95 J	73 J	4.6 J	0.53	3.1 J	0.27 J
Chloroform (Trichloromethane)	µg/m^3	67-66-3	110 J	4	-	-	41	410	37 U	38 U	2.5 U	**18[a]**	1.9 U	0.19 U
Chloromethane (Methyl chloride)	µg/m^3	74-87-3	3.5	313	-	-	-	-	65 U	68 U	4.5 U	1.2	3.3 U	0.45 J
cis-1,2-Dichloroethene	µg/m^3	156-59-2	1700	-	-	-	-	-	130 J	140 J	10 J	0.93	2.4 U	0.24 U
cis-1,3-Dichloropropene	µg/m^3	10061-01-5	ND	-	-	-	-	-	67 U	69 U	4.6 U	0.34 U	3.4 U	0.34 U
Cyclohexane	µg/m^3	110-82-7	230000	20900	-	-	-	-	1800	1900	310	0.68 J	8.2 J	0.41 J
Cymene (p-Isopropyltoluene)	µg/m^3	99-87-6	0.46 J	-	-	-	-	-	62 U	65 U	4.3 U	0.46 J	3.1 U	0.44 J
Dibromochloromethane	µg/m^3	124-48-1	ND	-	-	-	-	-	71 U	74 U	4.9 U	0.36 U	3.6 U	0.36 U
Dichlorodifluoromethane (CFC-12)	µg/m^3	75-71-8	570	348	-	-	-	-	67 U	70 U	330	1.1	9.8	**570[a]**
Ethylbenzene	µg/m^3	100-41-4	140000	37	-	-	-	-	**500[a]**	**500[a]**	4.2 J	3.2	24	2.9
Hexachlorobutadiene	µg/m^3	87-68-3	ND	4	-	-	-	-	160 U	170 U	11 UJ	0.83 UJ	8.3 UJ	0.83 UJ

Table 4

Analytical Results Summary and Residential Guidance Criteria
Soil Gas Sampling - August 2018
South Dayon Dump and Landfill Site
Moraine, Ohio

Sample Location:									GP01-18	GP01-18	GP02-09	GP03-09	GP04-09	GP05-09
Sample ID:									SVA-38443-082418-GL-036	SVA-38443-082418-GL-037	SVA-38443-081518-GL-011	SVA-38443-081418-GL-004	SVA-38443-081418-GL-002	SVA-38443-081418-GL-003
Sample Date:									8/24/2018	8/24/2018	8/15/2018	8/14/2018	8/14/2018	8/14/2018
										Duplicate				
Parameters	**Units**	**CAS#**	**Max**	**USEPA Subslab VISL Residential**	**Accelerated Response Action Level Residential (24 hours)**	**Urgent Response Action Level Residential (24 hours)**	**Chronic Response Action Level Residential**	**Removal Management Level Residential**						
				a	**b**	**c**	**d**	**e**						
Hexane	µg/m^3	110-54-3	630000	2430	-	-	-	-	1300	1200	220	0.92 J	22	0.94 J
Isopropyl alcohol	µg/m^3	67-63-0	160	695	-	-	-	-	46 U	48 U	14 J	2.3 J	8.1 J	4.6 J
Isopropyl benzene	µg/m^3	98-82-8	9800 J	1390	-	-	-	-	58 U	61 U	4.0 U	0.29 U	2.9 U	0.29 U
m&p-Xylenes	µg/m^3	M/P-XYLENE	590000	-	-	-	-	-	290	290	16	15	84	13
Methyl methacrylate	µg/m^3	80-62-6	1.4 J	2430	-	-	-	-	64 U	67 U	4.4 U	0.32 U	3.2 U	0.32 U
Methyl tert butyl ether (MTBE)	µg/m^3	1634-04-4	ND	360	-	-	-	-	120 U	130 U	8.3 U	0.61 U	6.1 U	0.61 U
Methylene chloride	µg/m^3	75-09-2	40	2090	-	-	-	-	220 U	230 U	15 U	1.2 J	11 U	1.1 J
Naphthalene	µg/m^3	91-20-3	1.5 J	3	-	-	28	280	93 U	98 U	6.4 UJ	1.1 J	4.7 UJ	1.1 J
N-Butylbenzene	µg/m^3	104-51-8	16 J	-	-	-	-	-	50 U	52 U	3.8 J	3.5	2.8 J	3.3
N-Heptane	µg/m^3	142-82-5	1100000	1390	-	-	-	-	**1600[a]**	**1600[a]**	130	0.57 J	5.0 J	0.54 J
N-Propylbenzene	µg/m^3	103-65-1	95 J	3480	-	-	-	-	55 U	57 U	3.7 U	3.0	5.0 J	2.7
o-Xylene	µg/m^3	95-47-6	180000	348	-	-	-	-	52 U	55 U	6.8 J	6.0	28	5.4
Styrene	µg/m^3	100-42-5	3.5	3480	-	-	-	-	49 U	51 U	3.4 U	3.5	2.5 U	3.2
tert-Butyl alcohol	µg/m^3	75-65-0	11 J	-	-	-	-	-	23 U	24 U	6.2 J	2.3 J	8.0 J	7.4
tert-Butylbenzene	µg/m^3	98-06-6	5.7 J	-	-	-	-	-	72 U	75 U	5.7 J	0.36 U	3.6 U	0.36 U
Tetrachloroethene	µg/m^3	127-18-4	550	139	-	-	1400	4200	54 U	56 U	3.7 U	**550[a]**	2.7 U	7.0
Tetrahydrofuran	µg/m^3	109-99-9	4.7 J	6950	-	-	-	-	37 U	38 U	2.5 U	1.3 J	1.9 U	1.2 J
Toluene	µg/m^3	108-88-3	1700000	17400	-	-	-	-	160	170	12	15	65	13
trans-1,2-Dichloroethene	µg/m^3	156-60-5	330	-	-	-	-	-	39 U	41 U	2.7 U	0.20 U	2.0 U	0.20 U
trans-1,3-Dichloropropene	µg/m^3	10061-02-6	ND	-	-	-	-	-	43 U	45 U	3.0 U	0.22 U	2.2 U	0.22 U
Trichloroethene	µg/m^3	79-01-6	27000	7	70	210	-	-	38 U	40 U	2.6 U	**120[ab]**	1.9 U	0.19 U
Trichlorofluoromethane (CFC-11)	µg/m^3	75-69-4	8.7	-	-	-	-	-	27 U	28 U	1.8 U	2.6	1.3 U	4.6
Trifluorotrichloroethane (CFC-113)	µg/m^3	76-13-1	6.6	17400	-	-	-	-	47 U	49 U	3.2 U	0.72 J	2.4 U	0.60 J
Vinyl bromide (Bromoethene)	µg/m^3	593-60-2	ND	3	-	-	-	-	30 U	32 U	2.1 U	0.15 U	1.5 U	0.15 U
Vinyl chloride	µg/m^3	75-01-4	2500	6	-	-	56	560	**1000[ade]**	**960[ade]**	**65[ad]**	0.18 U	1.8 U	0.18 U
Xylenes (total)	µg/m^3	1330-20-7	770000	348	-	-	-	-	290	290	22.8	21	112	18.4
Total VOCs	µg/m^3	-	-	-	-	-	-	-	127613	127337	2793.7	982.12	1668.3	799.21

Notes:

J - Estimated concentration.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
1 - USEPA sub slab or exterior soil gas concentration Vapor Intrusion Screening Levels (VISLs) based on cancer risk 1E 06 and hazard quotient (HQ)=0.1
2 - Ohio EPA accelerated and urgent response action levels and chronic response action level and removal management levels, from the Ohio EPA Guidance Document titled "Recommendations Regarding Response Action Levels and Timeframes for Common Contaminants of Concern at Vapor Intrusion Sites in Ohio", dated August 2016.
- Concentration was greater than applicable criteria.

Table 4

Analytical Results Summary and Residential Guidance Criteria
Soil Gas Sampling - August 2018
South Dayon Dump and Landfill Site
Moraine, Ohio

Sample Location:									GP06-09	GP07-18	GP09-09	GP10-09	GP11-09	GP12-09
Sample ID:									SVA-38443-082118-GL-019	SVA-38443-082118-GL-018	SVA-38443-082118-GL-021	SVA-38443-082118-GL-020	SVA-38443-081518-GL-012	SVA-38443-082018-GL-013
Sample Date:									8/21/2018	8/21/2018	8/21/2018	8/21/2018	8/15/2018	8/20/2018
Parameters	**Units**	**CAS#**	**Max**	**USEPA Subslab VISL Residential**	**Accelerated Response Action Level Residential (24 hours)**	**Urgent Response Action Level Residential (24 hours)**	**Chronic Response Action Level Residential**	**Removal Management Level Residential**						
				a	b	c	d	e						
Volatiles														
1,1,1-Trichloroethane	µg/m^3	71-55-6	33	17400	-	-	-	-	0.49 J	3700 U	4.1 J	4.5	2.6	1.6 U
1,1,2,2-Tetrachloroethane	µg/m^3	79-34-5	ND	2	-	-	-	-	0.42 U	9500 U	4.2 U	1.0 U	0.42 U	4.2 U
1,1,2-Trichloroethane	µg/m^3	79-00-5	ND	1	-	-	-	-	0.29 U	6700 U	2.9 U	0.74 U	0.29 U	2.9 U
1,1-Dichloroethane	µg/m^3	75-34-3	3200	59	-	-	-	-	0.11 U	2400 U	1.1 U	2.9	0.11 U	1.1 U
1,1-Dichloroethene	µg/m^3	75-35-4	24	695	-	-	-	-	0.13 U	3000 U	1.3 U	0.34 U	0.13 U	1.3 U
1,2,4-Trichlorobenzene	µg/m^3	120-82-1	ND	7	-	-	-	-	0.73 UJ	16000 UJ	7.3 UJ	1.8 UJ	0.73 UJ	7.3 UJ
1,2,4-Trimethylbenzene	µg/m^3	95-63-6	8400 J	209	-	-	-	-	8.9	**8400 J[a]**	12	11	13	7.8 J
1,2-Dibromoethane (Ethylene dibromide)	µg/m^3	106-93-4	ND	0	-	-	-	-	0.34 U	7600 U	3.4 U	0.85 U	0.34 U	3.4 U
1,2-Dichlorobenzene	µg/m^3	95-50-1	ND	695	-	-	-	-	0.42 U	9500 U	4.2 U	1.1 U	0.42 U	4.2 U
1,2-Dichloroethane	µg/m^3	107-06-2	1	4	-	-	-	-	0.89	4300 U	1.9 U	0.48 U	0.19 U	1.9 U
1,2-Dichloropropane	µg/m^3	78-87-5	ND	14	-	-	-	-	0.24 U	5400 U	2.4 U	0.60 U	0.24 U	2.4 U
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m^3	76-14-2	310	-	-	-	-	-	0.22 U	5100 U	2.2 U	0.99 J	0.22 U	2.2 U
1,3,5-Trimethylbenzene	µg/m^3	108-67-8	52 J	209	-	-	-	-	2.5	7200 U	4.5 J	2.9	3.7	3.2 U
1,3-Butadiene	µg/m^3	106-99-0	ND	3	-	-	-	-	0.14 U	3200 U	1.4 U	0.35 U	0.14 U	1.4 U
1,3-Dichlorobenzene	µg/m^3	541-73-1	6.9	-	-	-	-	-	0.63 J	8800 U	3.9 U	4.2	0.39 U	3.9 U
1,3-Dichloropropene	µg/m^3	542-75-6	ND	23	-	-	-	-	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	µg/m^3	106-46-7	74 J	9	-	-	-	-	0.38 U	8700 U	3.8 U	0.96 U	0.38 U	3.8 U
1,4-Dioxane	µg/m^3	123-91-1	0.73 J	19	-	-	-	-	0.29 U	6500 U	2.9 U	0.72 U	0.29 U	2.9 U
2,2,4-Trimethylpentane	µg/m^3	540-84-1	1800000	-	-	-	-	-	17	1800000	20 J	2.1 J	0.18 U	1.8 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m^3	78-93-3	35 J	17400	-	-	-	-	11	13000 U	13 J	12	4.7	7.8 J
2-Chlorotoluene	µg/m^3	95-49-8	1.5 J	-	-	-	-	-	0.33 U	7400 U	3.3 U	1.5 J	0.33 U	3.3 U
2-Hexanone	µg/m^3	591-78-6	8.9 J	104	-	-	-	-	2.1	5400 U	2.4 U	1.7 J	0.61 J	4.1 J
2-Phenylbutane (sec-Butylbenzene)	µg/m^3	135-98-8	47 J	-	-	-	-	-	0.35 U	7900 U	3.5 U	0.88 U	0.35 U	3.5 U
4-Ethyl toluene	µg/m^3	622-96-8	72 J	-	-	-	-	-	2.1	7300 U	4.0 J	2.6 J	3.4	3.2 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/m^3	108-10-1	4.3	10400	-	-	-	-	1.8 J	18000 U	8.0 U	2.0 U	2.7	8.0 U
Acetone	µg/m^3	67-64-1	460	107000	-	-	-	-	69 J	75000 UJ	95 J	96	41	130
Allyl chloride	µg/m^3	107-05-1	ND	3	-	-	-	-	0.15 U	3400 U	1.5 U	0.38 U	0.15 U	1.5 U
Benzene	µg/m^3	71-43-2	110000	12	-	-	-	-	1.8	**110000[a]**	2.5 J	1.7	0.39 J	1.8 U
Benzyl chloride	µg/m^3	100-44-7	ND	2	-	-	-	-	0.40 U	9100 U	4.0 U	1.0 U	0.40 U	4.0 U
Bromodichloromethane	µg/m^3	75-27-4	ND	3	-	-	-	-	0.29 U	6700 U	2.9 U	0.74 U	0.29 U	2.9 U
Bromoform	µg/m^3	75-25-2	ND	85	-	-	-	-	0.50 U	11000 U	5.0 U	1.2 U	0.50 U	5.0 U
Bromomethane (Methyl bromide)	µg/m^3	74-83-9	0.98 J	17	-	-	-	-	0.14 J	2800 U	1.2 U	0.31 U	0.20 J	1.2 U
Butane	µg/m^3	106-97-8	8100	-	-	-	-	-	0.72 J	6200 J	1.8 J	3.1	1.2	1.7 U
Carbon disulfide	µg/m^3	75-15-0	270 J	2430	-	-	-	-	13	2200 U	34	4.7	36	31
Carbon tetrachloride	µg/m^3	56-23-5	36	16	-	-	160	1600	0.24 U	5400 U	2.4 U	0.60 U	0.24 U	2.4 U
Chlorobenzene	µg/m^3	108-90-7	110000	174	-	-	-	-	0.23 U	5100 U	2.3 U	0.56 U	0.23 U	2.3 U
Chlorodifluoromethane	µg/m^3	75-45-6	580	174000	-	-	-	-	5.6	3000 U	4.1 J	5.3	2.0	6.0 J
Chloroethane	µg/m^3	75-00-3	550	34800	-	-	-	-	0.092 U	2100 U	0.92 U	0.23 U	0.46 J	0.96 J
Chloroform (Trichloromethane)	µg/m^3	67-66-3	110 J	4	-	-	41	410	0.38 J	4200 U	1.9 U	0.46 U	0.19 U	1.9 U
Chloromethane (Methyl chloride)	µg/m^3	74-87-3	3.5	313	-	-	-	-	0.55 J	7500 U	3.3 U	0.83 U	3.4	3.3 J
cis-1,2-Dichloroethene	µg/m^3	156-59-2	1700	-	-	-	-	-	0.24 U	5400 U	2.4 U	3.2	0.24 U	2.4 U
cis-1,3-Dichloropropene	µg/m^3	10061-01-5	ND	-	-	-	-	-	0.34 U	7600 U	3.4 U	0.84 U	0.34 U	3.4 U
Cyclohexane	µg/m^3	110-82-7	230000	20900	-	-	-	-	2.5	**230000[a]**	2.5 J	1.1 J	0.67 J	1.4 U
Cymene (p-Isopropyltoluene)	µg/m^3	99-87-6	0.46 J	-	-	-	-	-	0.40 J	7100 U	3.1 U	0.78 U	0.39 J	3.1 U
Dibromochloromethane	µg/m^3	124-48-1	ND	-	-	-	-	-	0.36 U	8100 U	3.6 U	0.89 U	0.36 U	3.6 U
Dichlorodifluoromethane (CFC-12)	µg/m^3	75-71-8	570	348	-	-	-	-	1.2	7600 U	3.6 J	9.0	1.2	3.7 J
Ethylbenzene	µg/m^3	100-41-4	140000	37	-	-	-	-	2.8	**140000[a]**	11	3.4	2.4	3.0 U
Hexachlorobutadiene	µg/m^3	87-68-3	ND	4	-	-	-	-	0.83 UJ	19000 UJ	8.3 UJ	2.1 UJ	0.83 UJ	8.3 UJ

Table 4

Analytical Results Summary and Residential Guidance Criteria
Soil Gas Sampling - August 2018
South Dayon Dump and Landfill Site
Moraine, Ohio

Sample Location:									GP06-09	GP07-18	GP09-09	GP10-09	GP11-09	GP12-09
Sample ID:									SVA-38443-082118-GL-019	SVA-38443-082118-GL-018	SVA-38443-082118-GL-021	SVA-38443-082118-GL-020	SVA-38443-081518-GL-012	SVA-38443-082018-GL-013
Sample Date:									8/21/2018	8/21/2018	8/21/2018	8/21/2018	8/15/2018	8/20/2018
Parameters	**Units**	**CAS#**	**Max**	**USEPA Subslab VISL Residential**	**Accelerated Response Action Level Residential (24 hours)**	**Urgent Response Action Level Residential (24 hours)**	**Chronic Response Action Level Residential**	**Removal Management Level Residential**						
				a	**b**	**c**	**d**	**e**						
Hexane	µg/m^3	110-54-3	630000	2430	-	-	-	-	15	**630000[a]**	3.5 J	1.7 J	1.1 J	1.1 U
Isopropyl alcohol	µg/m^3	67-63-0	160	695	-	-	-	-	57	5200 U	140	160	2.5 J	27 J
Isopropyl benzene	µg/m^3	98-82-8	9800 J	1390	-	-	-	-	1.4 J	**9800 J[a]**	4.4 J	2.6 J	0.68 J	2.9 U
m&p-Xylenes	µg/m^3	M/P-XYLENE	590000	-	-	-	-	-	12	590000	47	13	11	7.4 J
Methyl methacrylate	µg/m^3	80-62-6	1.4 J	2430	-	-	-	-	0.32 U	7300 U	3.2 U	0.81 U	1.4 J	3.2 U
Methyl tert butyl ether (MTBE)	µg/m^3	1634-04-4	ND	360	-	-	-	-	0.61 U	14000 U	6.1 U	1.5 U	0.61 U	6.1 U
Methylene chloride	µg/m^3	75-09-2	40	2090	-	-	-	-	7.0	25000 U	14 J	3.6 J	2.3	11 U
Naphthalene	µg/m^3	91-20-3	1.5 J	3	-	-	28	280	0.79 J	11000 UJ	4.7 UJ	1.5 J	1.0 J	4.7 UJ
N-Butylbenzene	µg/m^3	104-51-8	16 J	-	-	-	-	-	1.8 J	5700 U	2.5 U	2.4 J	2.7	2.5 U
N-Heptane	µg/m^3	142-82-5	1100000	1390	-	-	-	-	12	**1100000[a]**	14 J	3.4 J	0.50 J	1.9 U
N-Propylbenzene	µg/m^3	103-65-1	95 J	3480	-	-	-	-	1.2 J	6200 U	2.8 U	1.5 J	2.2	2.8 U
o-Xylene	µg/m^3	95-47-6	180000	348	-	-	-	-	4.9	**180000[a]**	20	5.5	4.5	2.9 J
Styrene	µg/m^3	100-42-5	3.5	3480	-	-	-	-	1.2	5600 U	2.5 U	1.7 J	2.2	2.5 U
tert-Butyl alcohol	µg/m^3	75-65-0	11 J	-	-	-	-	-	3.3 J	2600 U	5.1 J	8.5 J	1.1 J	11 J
tert-Butylbenzene	µg/m^3	98-06-6	5.7 J	-	-	-	-	-	0.36 U	8200 U	3.6 U	0.91 U	0.36 U	3.6 U
Tetrachloroethene	µg/m^3	127-18-4	550	139	-	-	1400	4200	22	6100 U	26	13	1.1 J	92
Tetrahydrofuran	µg/m^3	109-99-9	4.7 J	6950	-	-	-	-	0.19 U	4200 U	4.7 J	3.7 J	0.88 J	1.9 U
Toluene	µg/m^3	108-88-3	1700000	17400	-	-	-	-	23	**1700000[a]**	38	13	9.8	4.5 U
trans-1,2-Dichloroethene	µg/m^3	156-60-5	330	-	-	-	-	-	0.59 J	4500 U	2.2 J	1.4 J	0.20 U	2.0 U
trans-1,3-Dichloropropene	µg/m^3	10061-02-6	ND	-	-	-	-	-	0.22 U	4900 U	2.2 U	0.54 U	0.22 U	2.2 U
Trichloroethene	µg/m^3	79-01-6	27000	7	70	210	-	-	0.28 J	4400 U	**690[abc]**	**34[a]**	0.19 U	**690[abc]**
Trichlorofluoromethane (CFC-11)	µg/m^3	75-69-4	8.7	-	-	-	-	-	8.7	3100 U	2.9 J	0.76 J	2.4	2.0 J
Trifluorotrichloroethane (CFC-113)	µg/m^3	76-13-1	6.6	17400	-	-	-	-	0.60 J	5400 U	2.4 U	1.5 J	0.62 J	2.4 U
Vinyl bromide (Bromoethene)	µg/m^3	593-60-2	ND	3	-	-	-	-	0.15 U	3500 U	1.5 U	0.38 U	0.15 U	1.5 U
Vinyl chloride	µg/m^3	75-01-4	2500	6	-	-	56	560	0.18 U	4100 U	1.8 U	1.7	0.61	1.8 U
Xylenes (total)	µg/m^3	1330-20-7	770000	348	-	-	-	-	16.9	**770000[a]**	67	18.5	15.5	10.3
Total VOCs	µg/m^3	-	-	-	-	-	-	-	335.16	7274400	1290.9	466.85	184.11	1037.26

Notes:

J - Estimated concentration.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
1 - USEPA sub slab or exterior soil gas concentration Vapor Intrusion Screening Levels (VISLs) based on cancer risk 1E 06 and hazard quotient (HQ)=0.1
2 - Ohio EPA accelerated and urgent response action levels and chronic response action level and removal management levels, from the Ohio EPA Guidance Document titled "Recommendations Regarding Response Action Levels and Timeframes for Common Contaminants of Concern at Vapor Intrusion Sites in Ohio", dated August 2016.
- Concentration was greater than applicable criteria.

Table 4

Analytical Results Summary and Residential Guidance Criteria
Soil Gas Sampling - August 2018
South Dayon Dump and Landfill Site
Moraine, Ohio

Sample Location:									GP13-09	GP14-09	GP14-09	GP15-09	GP16-09	GP19-18
Sample ID:									SVA-38443-082018-GL-014	SVA-38443-082018-GL-015	SVA-38443-082018-GL-016	SVA-38443-082018-GL-017	SVA-38443-082318-GL-028	SVA-38443-082318-GL-034
Sample Date:									8/20/2018	8/20/2018	8/20/2018	8/20/2018	8/23/2018	8/23/2018
											Duplicate			
Parameters	**Units**	**CAS#**	**Max**	**USEPA Subslab VISL Residential**	**Accelerated Response Action Level Residential (24 hours)**	**Urgent Response Action Level Residential (24 hours)**	**Chronic Response Action Level Residential**	**Removal Management Level Residential**						
				a	**b**	**c**	**d**	**e**						
Volatiles														
1,1,1-Trichloroethane	µg/m^3	71-55-6	33	17400	-	-	-	-	14	1.3 J	1.3 J	8.5 J	17 U	4.8 U
1,1,2,2-Tetrachloroethane	µg/m^3	79-34-5	ND	2	-	-	-	-	0.42 U	1.7 U	1.7 U	12 U	43 U	12 U
1,1,2-Trichloroethane	µg/m^3	79-00-5	ND	1	-	-	-	-	0.29 U	1.2 U	1.2 U	8.7 U	30 U	8.7 U
1,1-Dichloroethane	µg/m^3	75-34-3	3200	59	-	-	-	-	**310[a]**	1.5 J	1.7 J	**3200[a]**	55 J	3.1 U
1,1-Dichloroethene	µg/m^3	75-35-4	24	695	-	-	-	-	0.32 J	0.54 U	0.54 U	6.7 J	14 U	11 J
1,2,4-Trichlorobenzene	µg/m^3	120-82-1	ND	7	-	-	-	-	0.73 UJ	2.9 UJ	2.9 UJ	22 UJ	75 UJ	22 U
1,2,4-Trimethylbenzene	µg/m^3	95-63-6	8400 J	209	-	-	-	-	8.4	5.1	5.0	11 J	32 U	9.2 U
1,2-Dibromoethane (Ethylene dibromide)	µg/m^3	106-93-4	ND	0	-	-	-	-	0.34 U	1.4 U	1.4 U	10 U	35 U	10 U
1,2-Dichlorobenzene	µg/m^3	95-50-1	ND	695	-	-	-	-	0.42 U	1.7 U	1.7 U	12 U	43 U	12 U
1,2-Dichloroethane	µg/m^3	107-06-2	1	4	-	-	-	-	0.19 U	0.76 U	0.76 U	5.6 U	20 U	5.6 U
1,2-Dichloropropane	µg/m^3	78-87-5	ND	14	-	-	-	-	0.24 U	0.96 U	0.96 U	7.1 U	25 U	7.1 U
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m^3	76-14-2	310	-	-	-	-	-	8.6	0.89 U	0.89 U	6.6 U	23 U	6.6 U
1,3,5-Trimethylbenzene	µg/m^3	108-67-8	52 J	209	-	-	-	-	2.2	1.4 J	1.3 J	9.5 U	33 U	9.5 U
1,3-Butadiene	µg/m^3	106-99-0	ND	3	-	-	-	-	0.14 U	0.57 U	0.57 U	4.2 U	15 U	4.2 U
1,3-Dichlorobenzene	µg/m^3	541-73-1	6.9	-	-	-	-	-	0.39 U	1.6 U	1.6 U	12 U	40 U	12 U
1,3-Dichloropropene	µg/m^3	542-75-6	ND	23	-	-	-	-	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	µg/m^3	106-46-7	74 J	9	-	-	-	-	0.38 U	1.5 U	1.5 U	11 U	40 U	11 U
1,4-Dioxane	µg/m^3	123-91-1	0.73 J	19	-	-	-	-	0.29 U	1.2 U	1.2 U	8.5 U	30 U	8.5 U
2,2,4-Trimethylpentane	µg/m^3	540-84-1	1800000	-	-	-	-	-	0.44 J	0.73 U	0.73 U	5.4 U	3600	190
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m^3	78-93-3	35 J	17400	-	-	-	-	5.9	5.9 J	2.6 J	17 U	61 U	35 J
2-Chlorotoluene	µg/m^3	95-49-8	1.5 J	-	-	-	-	-	0.33 U	1.3 U	1.3 U	9.7 U	34 U	9.7 U
2-Hexanone	µg/m^3	591-78-6	8.9 J	104	-	-	-	-	0.97 J	0.95 U	0.95 U	7.0 U	24 U	7.0 U
2-Phenylbutane (sec-Butylbenzene)	µg/m^3	135-98-8	47 J	-	-	-	-	-	0.35 U	1.4 U	1.4 U	10 U	36 U	10 U
4-Ethyl toluene	µg/m^3	622-96-8	72 J	-	-	-	-	-	1.9 J	1.3 U	1.3 U	9.6 U	33 U	9.6 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/m^3	108-10-1	4.3	10400	-	-	-	-	1.1 J	3.2 U	3.2 U	24 U	82 U	24 U
Acetone	µg/m^3	67-64-1	460	107000	-	-	-	-	58	54 J	28 J	98 U	340 U	340 J
Allyl chloride	µg/m^3	107-05-1	ND	3	-	-	-	-	0.15 U	0.60 U	0.60 U	4.4 U	15 U	4.4 U
Benzene	µg/m^3	71-43-2	110000	12	-	-	-	-	0.32 J	0.72 U	0.72 U	5.3 U	18 U	**45[a]**
Benzyl chloride	µg/m^3	100-44-7	ND	2	-	-	-	-	0.40 U	1.6 U	1.6 U	12 U	42 U	12 U
Bromodichloromethane	µg/m^3	75-27-4	ND	3	-	-	-	-	0.29 U	1.2 U	1.2 U	8.7 U	30 U	8.7 U
Bromoform	µg/m^3	75-25-2	ND	85	-	-	-	-	0.50 U	2.0 U	2.0 U	15 U	51 U	15 U
Bromomethane (Methyl bromide)	µg/m^3	74-83-9	0.98 J	17	-	-	-	-	0.12 U	0.50 U	0.50 U	3.7 U	13 U	3.7 U
Butane	µg/m^3	106-97-8	8100	-	-	-	-	-	13	1.1 J	0.69 U	5.1 U	6800	940
Carbon disulfide	µg/m^3	75-15-0	270 J	2430	-	-	-	-	14	5.9 J	4.2 J	26 J	11 J	40 J
Carbon tetrachloride	µg/m^3	56-23-5	36	16	-	-	160	1600	0.24 U	0.96 U	0.96 U	9.2 J	25 U	7.1 U
Chlorobenzene	µg/m^3	108-90-7	110000	174	-	-	-	-	0.23 U	0.90 U	0.90 U	6.7 U	23 U	6.7 U
Chlorodifluoromethane	µg/m^3	75-45-6	580	174000	-	-	-	-	0.94	7.3	5.4	7.7 J	110	3.9 U
Chloroethane	µg/m^3	75-00-3	550	34800	-	-	-	-	0.97	0.37 U	0.37 U	12 J	9.5 U	9.2 J
Chloroform (Trichloromethane)	µg/m^3	67-66-3	110 J	4	-	-	41	410	3.6	**7.6[a]**	**7.4[a]**	**17 J[a]**	19 U	5.5 U
Chloromethane (Methyl chloride)	µg/m^3	74-87-3	3.5	313	-	-	-	-	0.46 J	1.3 U	1.3 U	9.8 U	34 U	9.8 U
cis-1,2-Dichloroethene	µg/m^3	156-59-2	1700	-	-	-	-	-	0.24 U	3.5	3.1 J	1400	24 U	1700
cis-1,3-Dichloropropene	µg/m^3	10061-01-5	ND	-	-	-	-	-	0.34 U	1.3 U	1.3 U	9.9 U	35 U	9.9 U
Cyclohexane	µg/m^3	110-82-7	230000	20900	-	-	-	-	3.7	0.55 U	0.55 U	4.1 U	49 J	160
Cymene (p-Isopropyltoluene)	µg/m^3	99-87-6	0.46 J	-	-	-	-	-	0.31 U	1.3 U	1.3 U	9.3 U	32 U	9.3 U
Dibromochloromethane	µg/m^3	124-48-1	ND	-	-	-	-	-	0.36 U	1.4 U	1.4 U	11 U	37 U	11 U
Dichlorodifluoromethane (CFC-12)	µg/m^3	75-71-8	570	348	-	-	-	-	10	2.3 J	2.3 J	10 U	35 U	10 U
Ethylbenzene	µg/m^3	100-41-4	140000	37	-	-	-	-	1.2	1.2 U	1.2 U	8.7 U	30 U	14 J
Hexachlorobutadiene	µg/m^3	87-68-3	ND	4	-	-	-	-	0.83 UJ	3.3 UJ	3.3 UJ	25 UJ	86 UJ	25 U

Table 4

Analytical Results Summary and Residential Guidance Criteria
Soil Gas Sampling - August 2018
South Dayon Dump and Landfill Site
Moraine, Ohio

Sample Location:									GP13-09	GP14-09	GP14-09	GP15-09	GP16-09	GP19-18
Sample ID:									SVA-38443-082018-GL-014	SVA-38443-082018-GL-015	SVA-38443-082018-GL-016	SVA-38443-082018-GL-017	SVA-38443-082318-GL-028	SVA-38443-082318-GL-034
Sample Date:									8/20/2018	8/20/2018	8/20/2018	8/20/2018	8/23/2018	8/23/2018
											Duplicate			
Parameters	**Units**	**CAS#**	**Max**	**USEPA Subslab VISL Residential**	**Accelerated Response Action Level Residential (24 hours)**	**Urgent Response Action Level Residential (24 hours)**	**Chronic Response Action Level Residential**	**Removal Management Level Residential**						
				a	**b**	**c**	**d**	**e**						
Hexane	µg/m^3	110-54-3	630000	2430	-	-	-	-	1.1 J	0.45 U	0.73 J	3.3 U	210	340
Isopropyl alcohol	µg/m^3	67-63-0	160	695	-	-	-	-	1.6 J	4.2 J	2.5 J	6.8 U	24 U	76 J
Isopropyl benzene	µg/m^3	98-82-8	9800 J	1390	-	-	-	-	0.29 U	1.2 U	1.2 U	8.7 U	30 U	8.7 U
m&p-Xylenes	µg/m^3	M/P-XYLENE	590000	-	-	-	-	-	5.1	3.0 J	2.8 J	15 U	54 U	47
Methyl methacrylate	µg/m^3	80-62-6	1.4 J	2430	-	-	-	-	0.32 U	1.3 U	1.3 U	9.6 U	33 U	9.6 U
Methyl tert butyl ether (MTBE)	µg/m^3	1634-04-4	ND	360	-	-	-	-	0.61 U	2.5 U	2.5 U	18 U	63 U	18 U
Methylene chloride	µg/m^3	75-09-2	40	2090	-	-	-	-	2.4	4.4 U	5.0 J	33 U	110 U	33 U
Naphthalene	µg/m^3	91-20-3	1.5 J	3	-	-	28	280	1.0 J	1.9 UJ	1.9 UJ	14 UJ	49 UJ	14 U
N-Butylbenzene	µg/m^3	104-51-8	16 J	-	-	-	-	-	2.0 J	1.3 J	1.3 J	7.5 U	26 U	7.5 U
N-Heptane	µg/m^3	142-82-5	1100000	1390	-	-	-	-	0.44 J	0.77 U	0.77 U	5.7 U	20 U	330
N-Propylbenzene	µg/m^3	103-65-1	95 J	3480	-	-	-	-	1.1 J	1.1 U	1.1 U	8.1 U	28 U	8.1 U
o-Xylene	µg/m^3	95-47-6	180000	348	-	-	-	-	2.6	1.5 J	1.6 J	7.8 U	27 U	18 J
Styrene	µg/m^3	100-42-5	3.5	3480	-	-	-	-	0.82 J	0.99 U	0.99 U	7.3 U	25 U	7.3 U
tert-Butyl alcohol	µg/m^3	75-65-0	11 J	-	-	-	-	-	4.4 J	2.6 J	0.64 J	5.3 J	12 U	8.3 J
tert-Butylbenzene	µg/m^3	98-06-6	5.7 J	-	-	-	-	-	0.36 U	1.4 U	1.4 U	11 U	37 U	11 U
Tetrachloroethene	µg/m^3	127-18-4	550	139	-	-	1400	4200	1.3 J	**330[a]**	**370[a]**	25 J	28 U	8.0 U
Tetrahydrofuran	µg/m^3	109-99-9	4.7 J	6950	-	-	-	-	0.57 J	0.74 U	1.0 J	5.5 U	19 U	5.5 U
Toluene	µg/m^3	108-88-3	1700000	17400	-	-	-	-	4.8	1.9 J	1.9 J	13 U	47 U	71
trans-1,2-Dichloroethene	µg/m^3	156-60-5	330	-	-	-	-	-	0.20 U	1.0 J	1.0 J	57	20 U	30
trans-1,3-Dichloropropene	µg/m^3	10061-02-6	ND	-	-	-	-	-	0.22 U	0.87 U	0.87 U	6.4 U	22 U	6.4 U
Trichloroethene	µg/m^3	79-01-6	27000	7	70	210	-	-	1.3	**520[abc]**	**510[abc]**	**3400[abc]**	20 U	**13 J[a]**
Trichlorofluoromethane (CFC-11)	µg/m^3	75-69-4	8.7	-	-	-	-	-	0.88 J	1.6 J	1.7 J	4.0 U	14 U	4.0 U
Trifluorotrichloroethane (CFC-113)	µg/m^3	76-13-1	6.6	17400	-	-	-	-	6.6	0.95 U	0.95 U	7.0 U	24 U	7.0 U
Vinyl bromide (Bromoethene)	µg/m^3	593-60-2	ND	3	-	-	-	-	0.15 U	0.61 U	0.61 U	4.5 U	16 U	4.5 U
Vinyl chloride	µg/m^3	75-01-4	2500	6	-	-	56	560	3.1	0.73 U	0.73 U	**14 J[a]**	**370[ad]**	**2500[ade]**
Xylenes (total)	µg/m^3	1330-20-7	770000	348	-	-	-	-	7.7	4.5	4.4	ND	ND	65
Total VOCs	µg/m^3	-	-	-	-	-	-	-	508.83	968.5	966.87	8199.4	11205	6982.5

Notes:

J - Estimated concentration.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
1 - USEPA sub slab or exterior soil gas concentration Vapor Intrusion Screening Levels (VISLs) based on cancer risk 1E 06 and hazard quotient (HQ)=0.1
2 - Ohio EPA accelerated and urgent response action levels and chronic response action level and removal management levels, from the Ohio EPA Guidance Document titled "Recommendations Regarding Response Action Levels and Timeframes for Common Contaminants of Concern at Vapor Intrusion Sites in Ohio", dated August 2016.
- Concentration was greater than applicable criteria.

Table 4

Analytical Results Summary and Residential Guidance Criteria
Soil Gas Sampling - August 2018
South Dayon Dump and Landfill Site
Moraine, Ohio

Sample Location:									Outdoor Ambient Air near GP19	GP20-18	GP21-09	GP22-13	GP22-13	GP23-13
Sample ID:									SVA-38443-082318-GL-033	SVA-38443-082318-GL-030	SVA-38443-081418-GL-001	SVA-38443-082318-GL-031	SVA-38443-082318-GL-032	SVA-38443-082218-GL-025
Sample Date:									8/23/2018	8/23/2018	8/14/2018	8/23/2018	8/23/2018	8/22/2018
													Duplicate	
Parameters	**Units**	**CAS#**	**Max**	**USEPA Subslab VISL Residential**	**Accelerated Response Action Level Residential (24 hours)**	**Urgent Response Action Level Residential (24 hours)**	**Chronic Response Action Level Residential**	**Removal Management Level Residential**						
				a	**b**	**c**	**d**	**e**						
Volatiles														
1,1,1-Trichloroethane	µg/m^3	71-55-6	33	17400	-	-	-	-	0.16 U	22 U	3.3 U	0.27 J	0.26 J	1.6 J
1,1,2,2-Tetrachloroethane	µg/m^3	79-34-5	ND	2	-	-	-	-	0.42 U	57 U	8.4 U	0.42 U	0.42 U	1.7 U
1,1,2-Trichloroethane	µg/m^3	79-00-5	ND	1	-	-	-	-	0.29 U	40 U	5.9 U	0.29 U	0.29 U	1.2 U
1,1-Dichloroethane	µg/m^3	75-34-3	3200	59	-	-	-	-	0.11 U	14 U	4.3 J	1.7	1.7	0.42 U
1,1-Dichloroethene	µg/m^3	75-35-4	24	695	-	-	-	-	0.13 U	18 U	2.7 U	1.7	1.7	0.54 U
1,2,4-Trichlorobenzene	µg/m^3	120-82-1	ND	7	-	-	-	-	0.73 U	99 U	15 UJ	0.73 U	0.73 U	2.9 U
1,2,4-Trimethylbenzene	µg/m^3	95-63-6	8400 J	209	-	-	-	-	0.31 U	42 U	6.2 U	1.6	1.5	3.0 J
1,2-Dibromoethane (Ethylene dibromide)	µg/m^3	106-93-4	ND	0	-	-	-	-	0.34 U	46 U	6.8 U	0.34 U	0.34 U	1.4 U
1,2-Dichlorobenzene	µg/m^3	95-50-1	ND	695	-	-	-	-	0.42 U	57 U	8.4 U	0.42 U	0.42 U	1.7 U
1,2-Dichloroethane	µg/m^3	107-06-2	1	4	-	-	-	-	0.19 U	26 U	3.8 U	1.0	0.95	0.76 U
1,2-Dichloropropane	µg/m^3	78-87-5	ND	14	-	-	-	-	0.24 U	33 U	4.8 U	0.24 U	0.24 U	0.96 U
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m^3	76-14-2	310	-	-	-	-	-	0.22 U	30 U	4.5 U	0.22 U	0.22 U	0.89 U
1,3,5-Trimethylbenzene	µg/m^3	108-67-8	52 J	209	-	-	-	-	0.32 U	43 U	6.4 U	0.37 J	0.37 J	1.3 U
1,3-Butadiene	µg/m^3	106-99-0	ND	3	-	-	-	-	0.14 U	19 U	2.8 U	0.14 U	0.14 U	0.57 U
1,3-Dichlorobenzene	µg/m^3	541-73-1	6.9	-	-	-	-	-	0.39 U	53 U	7.8 U	0.58 J	0.64 J	1.6 U
1,3-Dichloropropene	µg/m^3	542-75-6	ND	23	-	-	-	-	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	µg/m^3	106-46-7	74 J	9	-	-	-	-	0.38 U	52 U	7.7 U	0.38 U	0.38 U	1.5 U
1,4-Dioxane	µg/m^3	123-91-1	0.73 J	19	-	-	-	-	0.73 J	39 U	5.8 U	0.29 U	0.29 U	1.2 U
2,2,4-Trimethylpentane	µg/m^3	540-84-1	1800000	-	-	-	-	-	0.18 U	25 U	33 J	0.18 U	0.18 U	1.2 J
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m^3	78-93-3	35 J	17400	-	-	-	-	1.2 J	80 U	12 U	13	12	17
2-Chlorotoluene	µg/m^3	95-49-8	1.5 J	-	-	-	-	-	0.33 U	44 U	6.5 U	0.33 U	0.33 U	1.3 U
2-Hexanone	µg/m^3	591-78-6	8.9 J	104	-	-	-	-	0.24 U	32 U	4.8 U	2.9	2.7	2.6 J
2-Phenylbutane (sec-Butylbenzene)	µg/m^3	135-98-8	47 J	-	-	-	-	-	0.35 U	48 U	7.0 U	0.35 U	0.35 U	1.4 U
4-Ethyl toluene	µg/m^3	622-96-8	72 J	-	-	-	-	-	0.32 U	44 U	6.5 U	0.32 U	0.32 J	1.3 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/m^3	108-10-1	4.3	10400	-	-	-	-	4.3	110 U	16 U	3.8	0.80 U	3.2 U
Acetone	µg/m^3	67-64-1	460	107000	-	-	-	-	12	450 U	67 U	66	56	77
Allyl chloride	µg/m^3	107-05-1	ND	3	-	-	-	-	0.15 U	20 U	3.0 U	0.15 U	0.15 U	0.60 U
Benzene	µg/m^3	71-43-2	110000	12	-	-	-	-	0.45 J	24 U	15[a]	0.83	0.89	0.84 J
Benzyl chloride	µg/m^3	100-44-7	ND	2	-	-	-	-	0.40 U	55 U	8.1 U	0.40 U	0.40 U	1.6 U
Bromodichloromethane	µg/m^3	75-27-4	ND	3	-	-	-	-	0.29 U	40 U	5.9 U	0.29 U	0.29 U	1.2 U
Bromoform	µg/m^3	75-25-2	ND	85	-	-	-	-	0.50 U	67 U	9.9 U	0.50 U	0.50 U	2.0 U
Bromomethane (Methyl bromide)	µg/m^3	74-83-9	0.98 J	17	-	-	-	-	0.12 U	17 U	2.5 U	0.12 U	0.30 J	0.98 J
Butane	µg/m^3	106-97-8	8100	-	-	-	-	-	1.0	24 U	1700	73	67	3.1 J
Carbon disulfide	µg/m^3	75-15-0	270 J	2430	-	-	-	-	0.26 J	13 U	13 J	7.6	8.5	14
Carbon tetrachloride	µg/m^3	56-23-5	36	16	-	-	160	1600	0.44 J	32 U	4.8 U	0.24 U	0.24 U	0.96 U
Chlorobenzene	µg/m^3	108-90-7	110000	174	-	-	-	-	0.23 U	31 U	4.5 U	0.37 J	0.38 J	0.90 U
Chlorodifluoromethane	µg/m^3	75-45-6	580	174000	-	-	-	-	1.7	18 U	84	1.5 J	7.2 J	1.8 J
Chloroethane	µg/m^3	75-00-3	550	34800	-	-	-	-	0.092 U	13 U	1.8 U	0.42 J	0.36 J	0.37 U
Chloroform (Trichloromethane)	µg/m^3	67-66-3	110 J	4	-	-	41	410	0.19 U	25 U	3.7 U	0.37 J	0.36 J	1.8 J
Chloromethane (Methyl chloride)	µg/m^3	74-87-3	3.5	313	-	-	-	-	1.1	45 U	6.6 U	0.33 U	0.33 U	1.8 J
cis-1,2-Dichloroethene	µg/m^3	156-59-2	1700	-	-	-	-	-	0.24 U	770	16	22	23	0.95 U
cis-1,3-Dichloropropene	µg/m^3	10061-01-5	ND	-	-	-	-	-	0.34 U	46 U	6.7 U	0.34 U	0.34 U	1.3 U
Cyclohexane	µg/m^3	110-82-7	230000	20900	-	-	-	-	0.14 U	19 U	35	10	10	0.55 U
Cymene (p-Isopropyltoluene)	µg/m^3	99-87-6	0.46 J	-	-	-	-	-	0.31 U	43 U	6.3 U	0.31 U	0.31 U	1.3 U
Dibromochloromethane	µg/m^3	124-48-1	ND	-	-	-	-	-	0.36 U	49 U	7.2 U	0.36 U	0.36 U	1.4 U
Dichlorodifluoromethane (CFC-12)	µg/m^3	75-71-8	570	348	-	-	-	-	1.3	46 U	6.7 U	1.2	1.1	2.6 J
Ethylbenzene	µg/m^3	100-41-4	140000	37	-	-	-	-	0.30 U	40 U	5.9 U	1.0	1.1	2.7 J
Hexachlorobutadiene	µg/m^3	87-68-3	ND	4	-	-	-	-	0.83 U	110 U	17 UJ	0.83 U	0.83 U	3.3 U

Table 4

Analytical Results Summary and Residential Guidance Criteria
Soil Gas Sampling - August 2018
South Dayon Dump and Landfill Site
Moraine, Ohio

Sample Location:									Outdoor Ambient Air near GP19	GP20-18	GP21-09	GP22-13	GP22-13	GP23-13
Sample ID:									SVA-38443-082318-GL-033	SVA-38443-082318-GL-030	SVA-38443-081418-GL-001	SVA-38443-082318-GL-031	SVA-38443-082318-GL-032	SVA-38443-082218-GL-025
Sample Date:									8/23/2018	8/23/2018	8/14/2018	8/23/2018	8/23/2018	8/22/2018
													Duplicate	
Parameters	**Units**	**CAS#**	**Max**	**USEPA Subslab VISL Residential**	**Accelerated Response Action Level Residential (24 hours)**	**Urgent Response Action Level Residential (24 hours)**	**Chronic Response Action Level Residential**	**Removal Management Level Residential**						
				a	**b**	**c**	**d**	**e**						
Hexane	µg/m^3	110-54-3	630000	2430	-	-	-	-	0.72 J	15 U	52	6.4	7.5	1.2 J
Isopropyl alcohol	µg/m^3	67-63-0	160	695	-	-	-	-	0.62 J	82 J	14 J	1.9 J	3.1 J	3.6 J
Isopropyl benzene	µg/m^3	98-82-8	9800 J	1390	-	-	-	-	0.29 U	40 U	5.9 U	0.29 U	0.29 U	1.2 U
m&p-Xylenes	µg/m^3	M/P-XYLENE	590000	-	-	-	-	-	0.52 U	71 U	10 U	4.4	4.7	14
Methyl methacrylate	µg/m^3	80-62-6	1.4 J	2430	-	-	-	-	0.32 U	44 U	6.5 U	0.32 U	0.32 U	1.3 U
Methyl tert butyl ether (MTBE)	µg/m^3	1634-04-4	ND	360	-	-	-	-	0.61 U	83 U	12 U	0.61 U	0.61 U	2.5 U
Methylene chloride	µg/m^3	75-09-2	40	2090	-	-	-	-	1.6 J	150 U	22 U	1.2 J	4.1 J	4.4 U
Naphthalene	µg/m^3	91-20-3	1.5 J	3	-	-	28	280	0.47 U	64 U	9.4 UJ	0.47 U	0.79 J	1.9 U
N-Butylbenzene	µg/m^3	104-51-8	16 J	-	-	-	-	-	0.25 U	34 U	5.1 U	0.49 J	0.40 J	1.0 U
N-Heptane	µg/m^3	142-82-5	1100000	1390	-	-	-	-	0.22 J	26 U	4.0 J	1.9 J	2.3	1.5 J
N-Propylbenzene	µg/m^3	103-65-1	95 J	3480	-	-	-	-	0.28 U	37 U	5.5 U	0.28 U	0.28 U	1.1 U
o-Xylene	µg/m^3	95-47-6	180000	348	-	-	-	-	0.26 U	36 U	5.3 U	1.3	1.2	5.1
Styrene	µg/m^3	100-42-5	3.5	3480	-	-	-	-	0.25 U	34 U	4.9 U	0.25 J	0.27 J	0.99 U
tert-Butyl alcohol	µg/m^3	75-65-0	11 J	-	-	-	-	-	0.12 U	16 U	2.3 U	2.3 J	1.9 J	4.1 J
tert-Butylbenzene	µg/m^3	98-06-6	5.7 J	-	-	-	-	-	0.36 U	49 U	7.2 U	1.8 J	1.7 J	1.4 U
Tetrachloroethene	µg/m^3	127-18-4	550	139	-	-	1400	4200	0.78 J	37 U	5.4 U	1.9	1.3 J	1.1 U
Tetrahydrofuran	µg/m^3	109-99-9	4.7 J	6950	-	-	-	-	0.19 U	25 U	3.7 U	0.19 U	0.19 U	0.74 U
Toluene	µg/m^3	108-88-3	1700000	17400	-	-	-	-	0.70 J	61 U	9.0 U	1.3	1.7	7.8
trans-1,2-Dichloroethene	µg/m^3	156-60-5	330	-	-	-	-	-	0.20 U	37 J	4.0 U	3.5	3.5	1.8 J
trans-1,3-Dichloropropene	µg/m^3	10061-02-6	ND	-	-	-	-	-	0.22 U	30 U	4.4 U	0.22 U	0.22 U	0.87 U
Trichloroethene	µg/m^3	79-01-6	27000	7	70	210	-	-	0.19 U	**6700[abc]**	3.9 U	2.7	2.3	**600[abc]**
Trichlorofluoromethane (CFC-11)	µg/m^3	75-69-4	8.7	-	-	-	-	-	1.2	18 U	2.7 U	0.13 U	0.36 J	7.3
Trifluorotrichloroethane (CFC-113)	µg/m^3	76-13-1	6.6	17400	-	-	-	-	0.52 J	32 U	4.8 U	0.24 U	0.24 U	0.95 U
Vinyl bromide (Bromoethene)	µg/m^3	593-60-2	ND	3	-	-	-	-	0.15 U	21 U	3.1 U	0.15 U	0.15 U	0.61 U
Vinyl chloride	µg/m^3	75-01-4	2500	6	-	-	56	560	0.18 U	25 U	3.6 U	**42[a]**	**38[a]**	0.73 U
Xylenes (total)	µg/m^3	1330-20-7	770000	348	-	-	-	-	ND	ND	ND	5.7	5.9	19.1
Total VOCs	µg/m^3	-	-	-	-	-	-	-	30.84	7589	1970.3	290.25	279.35	797.52

Notes:

J - Estimated concentration.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
1 - USEPA sub slab or exterior soil gas concentration Vapor Intrusion Screening Levels (VISLs) based on cancer risk 1E 06 and hazard quotient (HQ)=0.1
2 - Ohio EPA accelerated and urgent response action levels and chronic response action level and removal management levels, from the Ohio EPA Guidance Document titled "Recommendations Regarding Response Action Levels and Timeframes for Common Contaminants of Concern at Vapor Intrusion Sites in Ohio", dated August 2016.
- Concentration was greater than applicable criteria.

Table 4

Analytical Results Summary and Residential Guidance Criteria
Soil Gas Sampling - August 2018
South Dayon Dump and Landfill Site
Moraine, Ohio

Sample Location:									GP24A-13	GP24B-13	GP25-18	GP26-18	GP27-18	GP28-18
Sample ID:									SVA-38443-082218-GL-024	SVA-38443-082218-GL-023	SVA-38443-081418-GL-006	SVA-38443-081418-GL-005	SVA-38443-081518-GL-010	SVA-38443-081518-GL-007
Sample Date:									8/22/2018	8/22/2018	8/14/2018	8/14/2018	8/15/2018	8/15/2018
Parameters	**Units**	**CAS#**	**Max**	**USEPA Subslab VISL Residential**	**Accelerated Response Action Level Residential (24 hours)**	**Urgent Response Action Level Residential (24 hours)**	**Chronic Response Action Level Residential**	**Removal Management Level Residential**						
				a	**b**	**c**	**d**	**e**						
Volatiles														
1,1,1-Trichloroethane	µg/m^3	71-55-6	33	17400	-	-	-	-	2.2	0.69 J	3.8 J	7.3 U	19 U	7.4 U
1,1,2,2-Tetrachloroethane	µg/m^3	79-34-5	ND	2	-	-	-	-	0.42 U	0.42 U	8.4 U	19 U	48 U	19 U
1,1,2-Trichloroethane	µg/m^3	79-00-5	ND	1	-	-	-	-	0.29 U	0.29 U	5.9 U	13 U	34 U	13 U
1,1-Dichloroethane	µg/m^3	75-34-3	3200	59	-	-	-	-	0.11 U	0.11 U	29	30 J	41 J	19 J
1,1-Dichloroethene	µg/m^3	75-35-4	24	695	-	-	-	-	0.13 U	0.13 U	24	6.1 U	15 U	6.1 U
1,2,4-Trichlorobenzene	µg/m^3	120-82-1	ND	7	-	-	-	-	0.73 U	0.73 UJ	15 UJ	33 UJ	83 UJ	33 UJ
1,2,4-Trimethylbenzene	µg/m^3	95-63-6	8400 J	209	-	-	-	-	2.6	1.6	12 J	22 J	120	14 U
1,2-Dibromoethane (Ethylene dibromide)	µg/m^3	106-93-4	ND	0	-	-	-	-	0.34 U	0.34 U	6.8 U	15 U	38 U	15 U
1,2-Dichlorobenzene	µg/m^3	95-50-1	ND	695	-	-	-	-	0.42 U	0.42 U	8.4 U	19 U	48 U	19 U
1,2-Dichloroethane	µg/m^3	107-06-2	1	4	-	-	-	-	0.19 U	0.19 U	3.8 U	8.5 U	22 U	8.7 U
1,2-Dichloropropane	µg/m^3	78-87-5	ND	14	-	-	-	-	0.24 U	0.24 U	4.8 U	11 U	27 U	11 U
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m^3	76-14-2	310	-	-	-	-	-	0.22 U	0.22 U	28	32 J	25 U	10 U
1,3,5-Trimethylbenzene	µg/m^3	108-67-8	52 J	209	-	-	-	-	0.58 J	0.46 J	6.4 U	14 U	52 J	15 U
1,3-Butadiene	µg/m^3	106-99-0	ND	3	-	-	-	-	0.14 U	0.14 U	2.8 U	6.4 U	16 U	6.4 U
1,3-Dichlorobenzene	µg/m^3	541-73-1	6.9	-	-	-	-	-	2.7	0.39 U	7.8 U	18 U	44 U	18 U
1,3-Dichloropropene	µg/m^3	542-75-6	ND	23	-	-	-	-	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	µg/m^3	106-46-7	74 J	9	-	-	-	-	0.38 U	0.38 U	7.7 U	17 U	**74 J[a]**	18 U
1,4-Dioxane	µg/m^3	123-91-1	0.73 J	19	-	-	-	-	0.29 U	0.29 U	5.8 U	13 U	33 U	13 U
2,2,4-Trimethylpentane	µg/m^3	540-84-1	1800000	-	-	-	-	-	0.41 J	1.2 J	10 J	16 J	21 U	8.3 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m^3	78-93-3	35 J	17400	-	-	-	-	18	5.3	12 U	26 U	67 U	27 U
2-Chlorotoluene	µg/m^3	95-49-8	1.5 J	-	-	-	-	-	0.33 U	0.33 U	6.5 U	15 U	37 U	15 U
2-Hexanone	µg/m^3	591-78-6	8.9 J	104	-	-	-	-	2.8	0.90 J	4.8 U	11 U	27 U	11 U
2-Phenylbutane (sec-Butylbenzene)	µg/m^3	135-98-8	47 J	-	-	-	-	-	0.35 U	0.35 U	7.0 U	16 U	40 U	38 J
4-Ethyl toluene	µg/m^3	622-96-8	72 J	-	-	-	-	-	0.59 J	0.52 J	6.5 U	15 U	72 J	15 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/m^3	108-10-1	4.3	10400	-	-	-	-	3.9	1.1 J	16 U	36 U	91 U	36 U
Acetone	µg/m^3	67-64-1	460	107000	-	-	-	-	75	22	67 U	150 U	380 U	150 U
Allyl chloride	µg/m^3	107-05-1	ND	3	-	-	-	-	0.15 U	0.15 U	3.0 U	6.7 U	17 U	6.8 U
Benzene	µg/m^3	71-43-2	110000	12	-	-	-	-	1.2	0.43 J	3.6 U	**52[a]**	**410[a]**	**87[a]**
Benzyl chloride	µg/m^3	100-44-7	ND	2	-	-	-	-	0.40 U	0.40 U	8.1 U	18 U	46 U	18 U
Bromodichloromethane	µg/m^3	75-27-4	ND	3	-	-	-	-	0.29 U	0.29 U	5.9 U	13 U	34 U	13 U
Bromoform	µg/m^3	75-25-2	ND	85	-	-	-	-	0.50 U	0.50 U	9.9 U	22 U	56 U	23 U
Bromomethane (Methyl bromide)	µg/m^3	74-83-9	0.98 J	17	-	-	-	-	0.18 J	0.12 U	2.5 U	5.6 U	14 U	5.7 U
Butane	µg/m^3	106-97-8	8100	-	-	-	-	-	0.96	2.3	720	1800	8100	3000
Carbon disulfide	µg/m^3	75-15-0	270 J	2430	-	-	-	-	14	12	28 J	240	92 J	27 J
Carbon tetrachloride	µg/m^3	56-23-5	36	16	-	-	160	1600	**36[a]**	0.34 J	4.8 U	11 U	27 U	11 U
Chlorobenzene	µg/m^3	108-90-7	110000	174	-	-	-	-	0.23 J	0.23 U	4.7 J	22 J	**9200[a]**	**1700[a]**
Chlorodifluoromethane	µg/m^3	75-45-6	580	174000	-	-	-	-	1.8	17	45	48	15 U	12 J
Chloroethane	µg/m^3	75-00-3	550	34800	-	-	-	-	0.14 J	0.092 U	1.8 U	550	41 J	43
Chloroform (Trichloromethane)	µg/m^3	67-66-3	110 J	4	-	-	41	410	0.29 J	0.19 U	3.7 U	8.3 U	21 U	8.4 U
Chloromethane (Methyl chloride)	µg/m^3	74-87-3	3.5	313	-	-	-	-	0.67 J	0.47 J	6.6 U	15 U	38 U	15 U
cis-1,2-Dichloroethene	µg/m^3	156-59-2	1700	-	-	-	-	-	0.24 U	0.24 U	4.8 U	13 J	27 U	30 J
cis-1,3-Dichloropropene	µg/m^3	10061-01-5	ND	-	-	-	-	-	0.34 U	0.34 U	6.7 U	15 U	38 U	15 U
Cyclohexane	µg/m^3	110-82-7	230000	20900	-	-	-	-	0.14 U	0.53 J	24 J	72 J	350 J	150
Cymene (p-Isopropyltoluene)	µg/m^3	99-87-6	0.46 J	-	-	-	-	-	0.31 U	0.31 U	6.3 U	14 U	36 U	14 U
Dibromochloromethane	µg/m^3	124-48-1	ND	-	-	-	-	-	0.36 U	0.36 U	7.2 U	16 U	41 U	16 U
Dichlorodifluoromethane (CFC-12)	µg/m^3	75-71-8	570	348	-	-	-	-	1.5	1.2	12 J	15 U	38 U	15 U
Ethylbenzene	µg/m^3	100-41-4	140000	37	-	-	-	-	2.0	1.9	5.9 U	13 U	**150[a]**	13 U
Hexachlorobutadiene	µg/m^3	87-68-3	ND	4	-	-	-	-	0.83 U	0.83 UJ	17 UJ	37 UJ	95 UJ	38 UJ

Table 4

Analytical Results Summary and Residential Guidance Criteria
Soil Gas Sampling - August 2018
South Dayon Dump and Landfill Site
Moraine, Ohio

Sample Location:									GP24A-13	GP24B-13	GP25-18	GP26-18	GP27-18	GP28-18
Sample ID:									SVA-38443-082218-GL-024	SVA-38443-082218-GL-023	SVA-38443-081418-GL-006	SVA-38443-081418-GL-005	SVA-38443-081518-GL-010	SVA-38443-081518-GL-007
Sample Date:									8/22/2018	8/22/2018	8/14/2018	8/14/2018	8/15/2018	8/15/2018
Parameters	**Units**	**CAS#**	**Max**	**USEPA Subslab VISL Residential**	**Accelerated Response Action Level Residential (24 hours)**	**Urgent Response Action Level Residential (24 hours)**	**Chronic Response Action Level Residential**	**Removal Management Level Residential**						
				a	**b**	**c**	**d**	**e**						
Hexane	µg/m^3	110-54-3	630000	2430	-	-	-	-	0.76 J	4.7	38	140	**3100[a]**	1100
Isopropyl alcohol	µg/m^3	67-63-0	160	695	-	-	-	-	81	3.2 J	6.7 J	10 U	26 U	11 U
Isopropyl benzene	µg/m^3	98-82-8	9800 J	1390	-	-	-	-	1.4 J	0.29 U	5.9 U	13 U	34 U	71 J
m&p-Xylenes	µg/m^3	M/P-XYLENE	590000	-	-	-	-	-	8.6	8.9	13 J	54	350	67
Methyl methacrylate	µg/m^3	80-62-6	1.4 J	2430	-	-	-	-	0.32 U	0.32 U	6.5 U	15 U	37 U	15 U
Methyl tert butyl ether (MTBE)	µg/m^3	1634-04-4	ND	360	-	-	-	-	0.61 U	0.61 U	12 U	28 U	70 U	28 U
Methylene chloride	µg/m^3	75-09-2	40	2090	-	-	-	-	1.1 U	21	40	50 U	130 U	51 U
Naphthalene	µg/m^3	91-20-3	1.5 J	3	-	-	28	280	0.47 U	0.47 UJ	9.4 UJ	21 UJ	54 UJ	21 UJ
N-Butylbenzene	µg/m^3	104-51-8	16 J	-	-	-	-	-	0.31 J	0.25 U	5.1 U	11 U	29 U	13 J
N-Heptane	µg/m^3	142-82-5	1100000	1390	-	-	-	-	1.1 J	1.5 J	7.7 J	50 J	**1800[a]**	390
N-Propylbenzene	µg/m^3	103-65-1	95 J	3480	-	-	-	-	0.40 J	0.29 J	5.5 U	12 U	95 J	13 U
o-Xylene	µg/m^3	95-47-6	180000	348	-	-	-	-	2.9	3.1	6.1 J	18 J	310	12 U
Styrene	µg/m^3	100-42-5	3.5	3480	-	-	-	-	0.64 J	0.25 U	4.9 U	11 U	28 U	11 U
tert-Butyl alcohol	µg/m^3	75-65-0	11 J	-	-	-	-	-	4.5 J	1.4 J	2.3 U	7.5 J	13 U	5.2 U
tert-Butylbenzene	µg/m^3	98-06-6	5.7 J	-	-	-	-	-	0.36 U	0.36 U	7.2 U	16 U	41 U	16 U
Tetrachloroethene	µg/m^3	127-18-4	550	139	-	-	1400	4200	0.27 U	1.9	5.4 U	12 U	31 U	12 U
Tetrahydrofuran	µg/m^3	109-99-9	4.7 J	6950	-	-	-	-	2.3 J	0.19 U	3.7 U	8.3 U	21 U	8.5 U
Toluene	µg/m^3	108-88-3	1700000	17400	-	-	-	-	4.3	8.0	15	34	540	25 J
trans-1,2-Dichloroethene	µg/m^3	156-60-5	330	-	-	-	-	-	2.3	1.1	4.0 U	8.9 U	23 U	21 J
trans-1,3-Dichloropropene	µg/m^3	10061-02-6	ND	-	-	-	-	-	0.22 U	0.22 U	4.4 U	9.8 U	25 U	9.9 U
Trichloroethene	µg/m^3	79-01-6	27000	7	70	210	-	-	0.75 J	0.19 U	3.9 U	**110[ab]**	22 U	**11 J[a]**
Trichlorofluoromethane (CFC-11)	µg/m^3	75-69-4	8.7	-	-	-	-	-	7.1	3.4	5.0 J	6.1 U	15 U	6.1 U
Trifluorotrichloroethane (CFC-113)	µg/m^3	76-13-1	6.6	17400	-	-	-	-	0.66 J	0.59 J	4.8 U	11 U	27 U	11 U
Vinyl bromide (Bromoethene)	µg/m^3	593-60-2	ND	3	-	-	-	-	0.15 U	0.15 U	3.1 U	6.9 U	17 U	7.0 U
Vinyl chloride	µg/m^3	75-01-4	2500	6	-	-	56	560	0.30 J	0.18 U	**75[ad]**	**77[ad]**	21 U	**160[ad]**
Xylenes (total)	µg/m^3	1330-20-7	770000	348	-	-	-	-	11.5	12	19.1	72	**660[a]**	67
Total VOCs	µg/m^3	-	-	-	-	-	-	-	298.57	141.02	1166.1	3459.5	25557	7031

Notes:

J - Estimated concentration.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
1 - USEPA sub slab or exterior soil gas concentration Vapor Intrusion Screening Levels (VISLs) based on cancer risk 1E 06 and hazard quotient (HQ)=0.1
2 - Ohio EPA accelerated and urgent response action levels and chronic response action level and removal management levels, from the Ohio EPA Guidance Document titled "Recommendations Regarding Response Action Levels and Timeframes for Common Contaminants of Concern at Vapor Intrusion Sites in Ohio", dated August 2016.
- Concentration was greater than applicable criteria.

Table 4

Analytical Results Summary and Residential Guidance Criteria
Soil Gas Sampling - August 2018
South Dayon Dump and Landfill Site
Moraine, Ohio

Sample Location:									GP28-18	GP29-18	GP30-18	GP31-18	GP32-18	GP33-18
Sample ID:									SVA-38443-081518-GL-008	SVA-38443-081518-GL-009	SVA-38443-082218-GL-027	SVA-38443-082218-GL-026	SVA-38443-082418-GL-035	SVA-38443-082318-GL-029
Sample Date:									8/15/2018	8/15/2018	8/22/2018	8/22/2018	8/24/2018	8/23/2018
									Duplicate					
Parameters	**Units**	**CAS#**	**Max**	**USEPA Subslab VISL Residential**	**Accelerated Response Action Level Residential (24 hours)**	**Urgent Response Action Level Residential (24 hours)**	**Chronic Response Action Level Residential**	**Removal Management Level Residential**						
				a	**b**	**c**	**d**	**e**						
Volatiles														
1,1,1-Trichloroethane	µg/m^3	71-55-6	33	17400	-	-	-	-	6.4 U	7.8 J	0.16 U	44 U	15	0.16 U
1,1,2,2-Tetrachloroethane	µg/m^3	79-34-5	ND	2	-	-	-	-	16 U	8.4 U	0.42 U	110 U	4.2 U	0.42 U
1,1,2-Trichloroethane	µg/m^3	79-00-5	ND	1	-	-	-	-	11 U	5.9 U	0.29 U	79 U	2.9 U	0.29 U
1,1-Dichloroethane	µg/m^3	75-34-3	3200	59	-	-	-	-	20 J	4.7 J	0.11 U	28 U	1.5 J	0.11 U
1,1-Dichloroethene	µg/m^3	75-35-4	24	695	-	-	-	-	5.2 U	2.7 U	0.13 U	36 U	1.3 U	0.13 U
1,2,4-Trichlorobenzene	µg/m^3	120-82-1	ND	7	-	-	-	-	28 UJ	15 UJ	0.73 U	190 U	7.3 U	0.73 UJ
1,2,4-Trimethylbenzene	µg/m^3	95-63-6	8400 J	209	-	-	-	-	12 U	14 J	3.2	83 U	3.1 U	1.7
1,2-Dibromoethane (Ethylene dibromide)	µg/m^3	106-93-4	ND	0	-	-	-	-	13 U	6.8 U	0.34 U	91 U	3.4 U	0.34 U
1,2-Dichlorobenzene	µg/m^3	95-50-1	ND	695	-	-	-	-	16 U	8.4 U	0.42 U	110 U	4.2 U	0.42 U
1,2-Dichloroethane	µg/m^3	107-06-2	1	4	-	-	-	-	7.4 U	3.8 U	0.19 U	51 U	1.9 U	0.19 U
1,2-Dichloropropane	µg/m^3	78-87-5	ND	14	-	-	-	-	9.3 U	4.8 U	0.24 U	64 U	2.4 U	0.24 U
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m^3	76-14-2	310	-	-	-	-	-	8.7 U	92	0.22 U	60 U	11 J	0.22 U
1,3,5-Trimethylbenzene	µg/m^3	108-67-8	52 J	209	-	-	-	-	12 U	7.6 J	0.85 J	86 U	3.2 U	0.37 J
1,3-Butadiene	µg/m^3	106-99-0	ND	3	-	-	-	-	5.5 U	2.8 U	0.14 U	38 U	1.4 U	0.14 U
1,3-Dichlorobenzene	µg/m^3	541-73-1	6.9	-	-	-	-	-	15 U	7.8 U	6.9	100 U	3.9 U	2.0
1,3-Dichloropropene	µg/m^3	542-75-6	ND	23	-	-	-	-	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	µg/m^3	106-46-7	74 J	9	-	-	-	-	15 U	7.7 U	0.38 U	100 U	3.8 U	0.38 U
1,4-Dioxane	µg/m^3	123-91-1	0.73 J	19	-	-	-	-	11 U	5.8 U	0.43 J	77 U	2.9 U	0.29 U
2,2,4-Trimethylpentane	µg/m^3	540-84-1	1800000	-	-	-	-	-	7.1 U	3.6 U	0.90 J	49 U	1.8 U	1.9 J
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m^3	78-93-3	35 J	17400	-	-	-	-	23 U	12 U	12	160 U	5.9 U	5.4
2-Chlorotoluene	µg/m^3	95-49-8	1.5 J	-	-	-	-	-	13 U	6.5 U	0.33 U	87 U	3.3 U	0.33 U
2-Hexanone	µg/m^3	591-78-6	8.9 J	104	-	-	-	-	9.2 U	4.8 U	1.7 J	64 U	2.4 U	0.91 J
2-Phenylbutane (sec-Butylbenzene)	µg/m^3	135-98-8	47 J	-	-	-	-	-	47 J	30 J	0.35 U	94 U	3.5 U	0.35 U
4-Ethyl toluene	µg/m^3	622-96-8	72 J	-	-	-	-	-	13 U	11 J	0.75 J	87 U	3.2 U	0.39 J
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/m^3	108-10-1	4.3	10400	-	-	-	-	31 U	16 U	1.1 J	210 U	8.0 U	1.0 J
Acetone	µg/m^3	67-64-1	460	107000	-	-	-	-	130 U	67 U	120	890 U	37 J	28
Allyl chloride	µg/m^3	107-05-1	ND	3	-	-	-	-	5.8 U	3.0 U	0.15 U	40 U	1.5 U	0.15 U
Benzene	µg/m^3	71-43-2	110000	12	-	-	-	-	**120[a]**	**40[a]**	1.5	48 U	3.6 J	0.67
Benzyl chloride	µg/m^3	100-44-7	ND	2	-	-	-	-	16 U	8.1 U	0.40 U	110 U	4.0 U	0.40 U
Bromodichloromethane	µg/m^3	75-27-4	ND	3	-	-	-	-	11 U	5.9 U	0.29 U	79 U	2.9 U	0.29 U
Bromoform	µg/m^3	75-25-2	ND	85	-	-	-	-	19 U	9.9 U	0.50 U	130 U	5.0 U	0.50 U
Bromomethane (Methyl bromide)	µg/m^3	74-83-9	0.98 J	17	-	-	-	-	4.8 U	2.5 U	0.12 U	33 U	1.2 U	0.12 U
Butane	µg/m^3	106-97-8	8100	-	-	-	-	-	3700	4800	1.4	46 U	5.1 J	1.5
Carbon disulfide	µg/m^3	75-15-0	270 J	2430	-	-	-	-	38 J	17 J	65	270 J	69	1.6
Carbon tetrachloride	µg/m^3	56-23-5	36	16	-	-	160	1600	9.3 U	4.8 U	0.27 J	64 U	2.4 U	0.39 J
Chlorobenzene	µg/m^3	108-90-7	110000	174	-	-	-	-	**2200[a]**	4.5 U	0.23 U	60 U	2.3 U	0.23 U
Chlorodifluoromethane	µg/m^3	75-45-6	580	174000	-	-	-	-	17 J	14 J	3.0	35 U	4.7 J	7.8
Chloroethane	µg/m^3	75-00-3	550	34800	-	-	-	-	44	3.8 J	0.27 J	25 U	0.92 U	0.092 U
Chloroform (Trichloromethane)	µg/m^3	67-66-3	110 J	4	-	-	41	410	7.2 U	3.7 U	0.19 U	**110 J[ad]**	**8.0 J[a]**	0.96
Chloromethane (Methyl chloride)	µg/m^3	74-87-3	3.5	313	-	-	-	-	13 U	6.6 U	3.5	89 U	3.3 U	0.89 J
cis-1,2-Dichloroethene	µg/m^3	156-59-2	1700	-	-	-	-	-	34	95	0.24 U	1000	4.7 J	0.24 U
cis-1,3-Dichloropropene	µg/m^3	10061-01-5	ND	-	-	-	-	-	13 U	6.7 U	0.34 U	90 U	3.4 U	0.34 U
Cyclohexane	µg/m^3	110-82-7	230000	20900	-	-	-	-	210	36	0.14 U	37 U	1.4 U	0.14 U
Cymene (p-Isopropyltoluene)	µg/m^3	99-87-6	0.46 J	-	-	-	-	-	12 U	6.3 U	0.31 U	84 U	3.1 U	0.31 U
Dibromochloromethane	µg/m^3	124-48-1	ND	-	-	-	-	-	14 U	7.2 U	0.36 U	96 U	3.6 U	0.36 U
Dichlorodifluoromethane (CFC-12)	µg/m^3	75-71-8	570	348	-	-	-	-	13 U	51	0.46 J	90 U	29	1.3
Ethylbenzene	µg/m^3	100-41-4	140000	37	-	-	-	-	13 J	14 J	2.7	79 U	3.0 U	1.1
Hexachlorobutadiene	µg/m^3	87-68-3	ND	4	-	-	-	-	32 UJ	17 UJ	0.83 U	220 U	8.3 U	0.83 UJ

Table 4

Analytical Results Summary and Residential Guidance Criteria
Soil Gas Sampling - August 2018
South Dayon Dump and Landfill Site
Moraine, Ohio

Sample Location:									GP28-18	GP29-18	GP30-18	GP31-18	GP32-18	GP33-18
Sample ID:									SVA-38443-081518-GL-008	SVA-38443-081518-GL-009	SVA-38443-082218-GL-027	SVA-38443-082218-GL-026	SVA-38443-082418-GL-035	SVA-38443-082318-GL-029
Sample Date:									8/15/2018	8/15/2018	8/22/2018	8/22/2018	8/24/2018	8/23/2018
									Duplicate					
Parameters	**Units**	**CAS#**	**Max**	**USEPA Subslab VISL Residential**	**Accelerated Response Action Level Residential (24 hours)**	**Urgent Response Action Level Residential (24 hours)**	**Chronic Response Action Level Residential**	**Removal Management Level Residential**						
				a	**b**	**c**	**d**	**e**						
Hexane	µg/m^3	110-54-3	630000	2430	-	-	-	-	1400	790	1.1 J	30 U	2.1 J	1.0 J
Isopropyl alcohol	µg/m^3	67-63-0	160	695	-	-	-	-	9.0 U	5.1 J	90	120 J	46 J	27
Isopropyl benzene	µg/m^3	98-82-8	9800 J	1390	-	-	-	-	92	74	2.3	79 U	2.9 U	0.81 J
m&p-Xylenes	µg/m^3	M/P-XYLENE	590000	-	-	-	-	-	92	15 J	11	140 U	5.2 U	4.9
Methyl methacrylate	µg/m^3	80-62-6	1.4 J	2430	-	-	-	-	13 U	6.5 U	0.32 U	87 U	3.2 U	0.32 U
Methyl tert butyl ether (MTBE)	µg/m^3	1634-04-4	ND	360	-	-	-	-	24 U	12 U	0.61 U	160 U	6.1 U	0.61 U
Methylene chloride	µg/m^3	75-09-2	40	2090	-	-	-	-	43 U	22 U	1.6 J	300 U	11 U	3.0
Naphthalene	µg/m^3	91-20-3	1.5 J	3	-	-	28	280	18 UJ	9.4 UJ	0.47 U	130 U	4.7 U	0.47 UJ
N-Butylbenzene	µg/m^3	104-51-8	16 J	-	-	-	-	-	16 J	12 J	0.39 J	68 U	2.5 U	0.25 U
N-Heptane	µg/m^3	142-82-5	1100000	1390	-	-	-	-	520	400	1.6 J	52 U	1.9 U	0.93 J
N-Propylbenzene	µg/m^3	103-65-1	95 J	3480	-	-	-	-	11 U	66	0.50 J	74 U	2.8 U	0.28 U
o-Xylene	µg/m^3	95-47-6	180000	348	-	-	-	-	15 J	13 J	4.1	71 U	2.6 U	1.7
Styrene	µg/m^3	100-42-5	3.5	3480	-	-	-	-	9.6 U	4.9 U	0.94	66 U	2.5 U	0.32 J
tert-Butyl alcohol	µg/m^3	75-65-0	11 J	-	-	-	-	-	4.5 U	3.6 J	4.3 J	31 U	6.0 J	2.2 J
tert-Butylbenzene	µg/m^3	98-06-6	5.7 J	-	-	-	-	-	14 U	7.2 U	0.36 U	97 U	3.6 U	0.36 U
Tetrachloroethene	µg/m^3	127-18-4	550	139	-	-	1400	4200	11 U	68	0.27 U	73 U	2.7 U	2.2
Tetrahydrofuran	µg/m^3	109-99-9	4.7 J	6950	-	-	-	-	7.2 U	3.7 U	2.7 J	50 U	3.0 J	0.96 J
Toluene	µg/m^3	108-88-3	1700000	17400	-	-	-	-	31	23	7.2	120 U	4.5 U	2.8
trans-1,2-Dichloroethene	µg/m^3	156-60-5	330	-	-	-	-	-	28 J	5.8 J	4.1	330	2.9 J	2.6
trans-1,3-Dichloropropene	µg/m^3	10061-02-6	ND	-	-	-	-	-	8.5 U	4.4 U	0.22 U	58 U	2.2 U	0.22 U
Trichloroethene	µg/m^3	79-01-6	27000	7	70	210	-	-	7.5 U	**17 J[a]**	2.1	**27000[abc]**	**590[abc]**	**15[a]**
Trichlorofluoromethane (CFC-11)	µg/m^3	75-69-4	8.7	-	-	-	-	-	5.2 U	2.7 U	0.56 J	36 U	3.1 J	1.1
Trifluorotrichloroethane (CFC-113)	µg/m^3	76-13-1	6.6	17400	-	-	-	-	9.2 U	4.8 U	0.24 U	64 U	2.4 U	0.45 J
Vinyl bromide (Bromoethene)	µg/m^3	593-60-2	ND	3	-	-	-	-	5.9 U	3.1 U	0.15 U	41 U	1.5 U	0.15 U
Vinyl chloride	µg/m^3	75-01-4	2500	6	-	-	56	560	**200[ad]**	**53[a]**	0.18 U	49 U	1.8 U	0.18 U
Xylenes (total)	µg/m^3	1330-20-7	770000	348	-	-	-	-	107	28	15.1	ND	ND	6.6
Total VOCs	µg/m^3	-	-	-	-	-	-	-	8944	6811.4	375.52	28830	841.7	131.45

Notes:

J - Estimated concentration.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
1 - USEPA sub slab or exterior soil gas concentration Vapor Intrusion Screening Levels (VISLs) based on cancer risk 1E 06 and hazard quotient (HQ)=0.1
2 - Ohio EPA accelerated and urgent response action levels and chronic response action level and removal management levels, from the Ohio EPA Guidance Document titled "Recommendations Regarding Response Action Levels and Timeframes for Common Contaminants of Concern at Vapor Intrusion Sites in Ohio", dated August 2016.
- Concentration was greater than applicable criteria.

Table 4

Analytical Results Summary and Residential Guidance Criteria
Soil Gas Sampling - August 2018
South Dayon Dump and Landfill Site
Moraine, Ohio

Sample Location:									GP34-18	Trip Blank
Sample ID:									SVA-38443-082218-GL-022	TB-38443-082318-GL-001
Sample Date:									8/22/2018	8/23/2018
Parameters	**Units**	**CAS#**	**Max**	**USEPA Subslab VISL Residential**	**Accelerated Response Action Level Residential (24 hours)**	**Urgent Response Action Level Residential (24 hours)**	**Chronic Response Action Level Residential**	**Removal Management Level Residential**		
				a	**b**	**c**	**d**	**e**		
Volatiles										
1,1,1-Trichloroethane	µg/m^3	71-55-6	33	17400	-	-	-	-	1.8	0.16 U
1,1,2,2-Tetrachloroethane	µg/m^3	79-34-5	ND	2	-	-	-	-	0.42 U	0.42 U
1,1,2-Trichloroethane	µg/m^3	79-00-5	ND	1	-	-	-	-	0.29 U	0.29 U
1,1-Dichloroethane	µg/m^3	75-34-3	3200	59	-	-	-	-	0.11 U	0.11 U
1,1-Dichloroethene	µg/m^3	75-35-4	24	695	-	-	-	-	0.13 U	0.13 U
1,2,4-Trichlorobenzene	µg/m^3	120-82-1	ND	7	-	-	-	-	0.73 UJ	0.73 U
1,2,4-Trimethylbenzene	µg/m^3	95-63-6	8400 J	209	-	-	-	-	1.8	0.31 U
1,2-Dibromoethane (Ethylene dibromide)	µg/m^3	106-93-4	ND	0	-	-	-	-	0.34 U	0.34 U
1,2-Dichlorobenzene	µg/m^3	95-50-1	ND	695	-	-	-	-	0.42 U	0.42 U
1,2-Dichloroethane	µg/m^3	107-06-2	1	4	-	-	-	-	0.19 U	0.19 U
1,2-Dichloropropane	µg/m^3	78-87-5	ND	14	-	-	-	-	0.24 U	0.24 U
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m^3	76-14-2	310	-	-	-	-	-	0.22 U	0.22 U
1,3,5-Trimethylbenzene	µg/m^3	108-67-8	52 J	209	-	-	-	-	0.39 J	0.32 U
1,3-Butadiene	µg/m^3	106-99-0	ND	3	-	-	-	-	0.14 U	0.14 U
1,3-Dichlorobenzene	µg/m^3	541-73-1	6.9	-	-	-	-	-	2.3	0.39 U
1,3-Dichloropropene	µg/m^3	542-75-6	ND	23	-	-	-	-	ND	-
1,4-Dichlorobenzene	µg/m^3	106-46-7	74 J	9	-	-	-	-	0.38 U	0.38 U
1,4-Dioxane	µg/m^3	123-91-1	0.73 J	19	-	-	-	-	0.29 U	0.29 U
2,2,4-Trimethylpentane	µg/m^3	540-84-1	1800000	-	-	-	-	-	0.88 J	0.18 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m^3	78-93-3	35 J	17400	-	-	-	-	7.8	0.59 U
2-Chlorotoluene	µg/m^3	95-49-8	1.5 J	-	-	-	-	-	0.33 U	0.33 U
2-Hexanone	µg/m^3	591-78-6	8.9 J	104	-	-	-	-	1.3 J	0.24 U
2-Phenylbutane (sec-Butylbenzene)	µg/m^3	135-98-8	47 J	-	-	-	-	-	0.35 U	0.35 U
4-Ethyl toluene	µg/m^3	622-96-8	72 J	-	-	-	-	-	0.46 J	0.32 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/m^3	108-10-1	4.3	10400	-	-	-	-	0.90 J	0.80 U
Acetone	µg/m^3	67-64-1	460	107000	-	-	-	-	35	3.3 U
Allyl chloride	µg/m^3	107-05-1	ND	3	-	-	-	-	0.15 U	0.15 U
Benzene	µg/m^3	71-43-2	110000	12	-	-	-	-	0.81	0.18 U
Benzyl chloride	µg/m^3	100-44-7	ND	2	-	-	-	-	0.40 U	0.40 U
Bromodichloromethane	µg/m^3	75-27-4	ND	3	-	-	-	-	0.29 U	0.29 U
Bromoform	µg/m^3	75-25-2	ND	85	-	-	-	-	0.50 U	0.50 U
Bromomethane (Methyl bromide)	µg/m^3	74-83-9	0.98 J	17	-	-	-	-	0.12 U	0.12 U
Butane	µg/m^3	106-97-8	8100	-	-	-	-	-	0.82 J	0.17 U
Carbon disulfide	µg/m^3	75-15-0	270 J	2430	-	-	-	-	21	0.097 U
Carbon tetrachloride	µg/m^3	56-23-5	36	16	-	-	160	1600	0.24 U	0.24 U
Chlorobenzene	µg/m^3	108-90-7	110000	174	-	-	-	-	0.23 U	0.23 U
Chlorodifluoromethane	µg/m^3	75-45-6	580	174000	-	-	-	-	4.6	0.29 J
Chloroethane	µg/m^3	75-00-3	550	34800	-	-	-	-	0.092 U	0.092 U
Chloroform (Trichloromethane)	µg/m^3	67-66-3	110 J	4	-	-	41	410	0.24 J	0.19 U
Chloromethane (Methyl chloride)	µg/m^3	74-87-3	3.5	313	-	-	-	-	1.5	0.33 U
cis-1,2-Dichloroethene	µg/m^3	156-59-2	1700	-	-	-	-	-	0.24 U	0.24 U
cis-1,3-Dichloropropene	µg/m^3	10061-01-5	ND	-	-	-	-	-	0.34 U	0.34 U
Cyclohexane	µg/m^3	110-82-7	230000	20900	-	-	-	-	0.20 J	0.14 U
Cymene (p-Isopropyltoluene)	µg/m^3	99-87-6	0.46 J	-	-	-	-	-	0.31 U	0.31 U
Dibromochloromethane	µg/m^3	124-48-1	ND	-	-	-	-	-	0.36 U	0.36 U
Dichlorodifluoromethane (CFC-12)	µg/m^3	75-71-8	570	348	-	-	-	-	1.8	0.34 U
Ethylbenzene	µg/m^3	100-41-4	140000	37	-	-	-	-	1.6	0.30 U
Hexachlorobutadiene	µg/m^3	87-68-3	ND	4	-	-	-	-	0.83 UJ	0.83 U

Table 4

Analytical Results Summary and Residential Guidance Criteria
Soil Gas Sampling - August 2018
South Dayon Dump and Landfill Site
Moraine, Ohio

Sample Location:									**GP34-18**	**Trip Blank**
Sample ID:									**SVA-38443-082218-GL-022**	**TB-38443-082318-GL-001**
Sample Date:									**8/22/2018**	**8/23/2018**
Parameters	**Units**	**CAS#**	**Max**	**USEPA Subslab VISL Residential**	**Accelerated Response Action Level Residential (24 hours)**	**Urgent Response Action Level Residential (24 hours)**	**Chronic Response Action Level Residential**	**Removal Management Level Residential**		
				a	**b**	**c**	**d**	**e**		
Hexane	µg/m^3	110-54-3	630000	2430	-	-	-	-	0.93 J	0.11 U
Isopropyl alcohol	µg/m^3	67-63-0	160	695	-	-	-	-	43	0.23 U
Isopropyl benzene	µg/m^3	98-82-8	9800 J	1390	-	-	-	-	1.2 J	0.29 U
m&p-Xylenes	µg/m^3	M/P-XYLENE	590000	-	-	-	-	-	6.7	0.52 U
Methyl methacrylate	µg/m^3	80-62-6	1.4 J	2430	-	-	-	-	0.32 U	0.32 U
Methyl tert butyl ether (MTBE)	µg/m^3	1634-04-4	ND	360	-	-	-	-	0.61 U	0.61 U
Methylene chloride	µg/m^3	75-09-2	40	2090	-	-	-	-	1.2 J	1.1 U
Naphthalene	µg/m^3	91-20-3	1.5 J	3	-	-	28	280	0.47 UJ	0.47 U
N-Butylbenzene	µg/m^3	104-51-8	16 J	-	-	-	-	-	0.25 U	0.25 U
N-Heptane	µg/m^3	142-82-5	1100000	1390	-	-	-	-	1.3 J	0.19 U
N-Propylbenzene	µg/m^3	103-65-1	95 J	3480	-	-	-	-	0.28 J	0.28 U
o-Xylene	µg/m^3	95-47-6	180000	348	-	-	-	-	2.2	0.26 U
Styrene	µg/m^3	100-42-5	3.5	3480	-	-	-	-	0.53 J	0.25 U
tert-Butyl alcohol	µg/m^3	75-65-0	11 J	-	-	-	-	-	2.2 J	0.12 J
tert-Butylbenzene	µg/m^3	98-06-6	5.7 J	-	-	-	-	-	0.36 U	0.36 U
Tetrachloroethene	µg/m^3	127-18-4	550	139	-	-	1400	4200	66	0.27 U
Tetrahydrofuran	µg/m^3	109-99-9	4.7 J	6950	-	-	-	-	1.7 J	0.19 U
Toluene	µg/m^3	108-88-3	1700000	17400	-	-	-	-	4.5	0.45 U
trans-1,2-Dichloroethene	µg/m^3	156-60-5	330	-	-	-	-	-	1.3	0.20 U
trans-1,3-Dichloropropene	µg/m^3	10061-02-6	ND	-	-	-	-	-	0.22 U	0.22 U
Trichloroethene	µg/m^3	79-01-6	27000	7	70	210	-	-	0.19 U	0.19 U
Trichlorofluoromethane (CFC-11)	µg/m^3	75-69-4	8.7	-	-	-	-	-	4.8	0.13 U
Trifluorotrichloroethane (CFC-113)	µg/m^3	76-13-1	6.6	17400	-	-	-	-	0.93 J	0.24 U
Vinyl bromide (Bromoethene)	µg/m^3	593-60-2	ND	3	-	-	-	-	0.15 U	0.15 U
Vinyl chloride	µg/m^3	75-01-4	2500	6	-	-	56	560	0.21 J	0.18 U
Xylenes (total)	µg/m^3	1330-20-7	770000	348	-	-	-	-	8.9	-
Total VOCs	µg/m^3	-	-	-	-	-	-	-	233.08	0.41

Notes:

J - Estimated concentration.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
1 - USEPA sub slab or exterior soil gas concentration Vapor Intrusion Screening Levels (VISLs) based on cancer risk 1E 06 and hazard quotient (HQ)=0.1
2 - Ohio EPA accelerated and urgent response action levels and chronic response action level and removal management levels, from the Ohio EPA Guidance Document titled "Recommendations Regarding Response Action Levels and Timeframes for Common Contaminants of Concern at Vapor Intrusion Sites in Ohio", dated August 2016.
- Concentration was greater than applicable criteria.

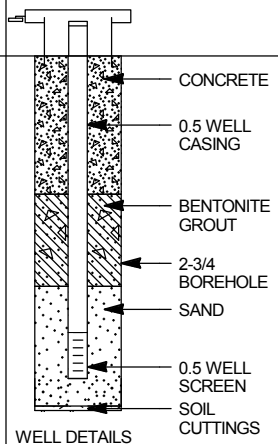
Attachment 1

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: GP01-18
DATE COMPLETED: January 25, 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE/A. FELDMAN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS
	CONCRETE SLAB	0.50
2	SW-GRAVELLY SAND (FILL), fine gravel, medium to coarse grained, slightly consolidated, well graded, dark brown, dry - 0.3' light brown at 3.3ft BGS - glass pieces at 3.9ft BGS - red clay brick at 4.1ft BGS - broken rock at 4.3ft BGS - increase in fine grained at 4.8ft BGS	
4		
6	- red clay brick at 5.5ft BGS	6.00
8	CL-SANDY CLAY (FILL), with fine gravel, coarse sand, slightly cohesive, low plasticity, light brown, moist - large glass pieces at 6.4ft BGS - 0.5' book pages at 7.0ft BGS - with fine gravel, medium grained, black at 8.0ft BGS	
10	- glass, metal pieces and concrete piece at 9.0ft BGS - wood chips and glass at 9.8ft BGS - red clay brick staining at 10.0ft BGS	10.00
12	SW-SAND (FILL), with fine gravel, loose, medium to coarse grained, well graded, light gray, dry - light brown staining at 12.0ft BGS - slag piece at 12.9ft BGS - crushed rock fragment at 13.0ft BGS	13.30
14		
16	ML-CLAYEY SILT (FILL), with medium to coarse sand, slightly cohesive, low plasticity, dark gray, moist - light brown rock fragments at 13.8ft BGS - glass chunks at 15.0ft BGS - asphalt at 15.5ft BGS	16.00
18		
20	GW-SANDY GRAVEL (native), loose, fine grained, trace coarse grained, well graded, light brown, dry - crushed rock fragment at 17.0ft BGS - crushed white quartz fragment at 17.5ft BGS - crushed rock fragment at 19.5ft BGS - crushed rock fragment at 19.8ft BGS	20.00
22	END OF BOREHOLE @ 20.0ft BGS	
24		
26		
28		



WELL DETAILS
Screened interval:
6.00 to 7.00ft BGS
Length: 1ft
Diameter: 0.5in
Material: TEFLON LINED POLYETHYLENE
Seal:
3.00 to 5.00ft BGS
Material: BENTONITE GROUT
Sand Pack:
5.00 to 7.70ft BGS
Material: SAND

SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
1DP		100		0 / 0
5.5-6.5' -064				2.3
2DP		74		0 / 0
3DP		62		0 / 0
4DP		82		0 / 0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

STRATIGRAPHIC LOG
(OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: GP03-18
DATE COMPLETED: January 30, 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE/A. FELDMAN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
2	SW-SAND (FILL), with silt and fine gravel, loose, medium to coarse grained, well graded, brown, moist - 0.2' concrete pieces at 1.0ft BGS - 0.1' concrete pieces at 2.0ft BGS		1DP		50		0 / 0
4	ML-CLAYEY SILT (FILL), with fine to medium sand, slightly cohesive, low plasticity, dark gray, wet	4.00					
	CONCRETE, dry	5.00					
6	SM-SILTY SAND (FILL), with fine gravel, loose, medium to coarse grained, well graded, brown, dry - wet at 6.7ft BGS - 0.3' dry foundry sand at 8.6ft BGS - light brown at 9.0ft BGS	6.00	2DP		100		0 / 0
10	NO RECOVERY, sample blinded	10.00					
12			3DP		28		0 / 0
14	SM-SILTY SAND (FILL), foundry sand, with fine gravel, loose, medium to coarse grained, well graded, brown, wet	13.60					0.1
	NO RECOVERY, very soft material	15.00					
16							
18			4DP		0		0 / 0
20	END OF BOREHOLE @ 20.0ft BGS	20.00					
22							
24							
26							
28							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

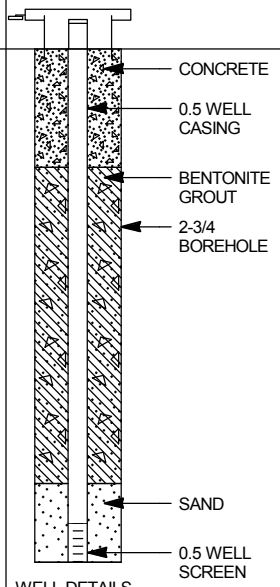
STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: GP07-18
DATE COMPLETED: August 11, 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS
	SM-GRAVELLY/SILTY SAND (FILL), consolidated, dark brown/dark gray, moist, odor	0.50
2	CL-SILTY CLAY (FILL), cohesive, dark gray, damp	1.50
	SW/GW-SAND/GRAVEL (FILL), little silt, loose, medium to coarse sand, fine gravel, well graded, brown/tan, dry	
4	SW-SAND (NATIVE), loose, fine to medium grained, trace coarse grained, medium brown, dry, strong petroleum odor	4.20
6		
8	SW/GW-SAND/GRAVEL (NATIVE), little silt, loose, medium to coarse sand, fine gravel, well graded, brown/tan, dry	7.40
10		
12		
14	- wet at 15.0ft BGS	
16	END OF BOREHOLE @ 16.0ft BGS	16.00
18		
20		
22		
24		
26		
28		
30		
32		
34		

GAS PROBE



WELL DETAILS
Screened interval:
12.00 to 13.00ft BGS
Length: 1ft
Diameter: 0.5in
Material: TEFLON LINED POLYETHYLENE
Seal:
3.00 to 11.00ft BGS
Material: BENTONITE GROUT
Sand Pack:
11.00 to 13.00ft BGS
Material: SAND

SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
1GP		38		
				32.4 / 0
2GP		50		1558 / 0
3GP		63		342 / 0
12-13				
4GP		60		
NEG SUDAN IV				15.2 / 0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

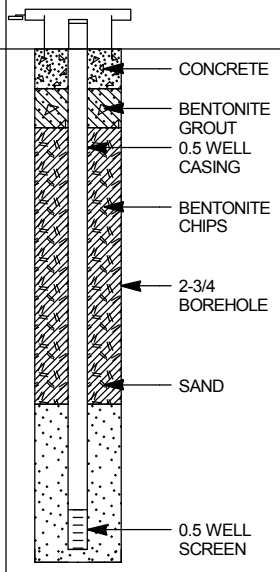
STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: GP08-19
DATE COMPLETED: January 15, 2019
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS
	ML-SILT, little clay, cohesive, dark brown, moist	
	SW-SAND, little fine gravel, loose, medium to coarse grained, trace fine grained, well graded, tan/brown, dry	5.00
	SW/GW-SAND/GRAVEL, loose, fine, medium and coarse sand, fine gravel, well graded, tan/brown, dry - iron staining at 11.0ft BGS - wet at 14.5ft BGS - increase in silt content at 15.0ft BGS	7.80
	END OF BOREHOLE @ 20.0ft BGS	20.00

GAS PROBE



WELL DETAILS
Screened interval:
11.67 to 12.67ft BGS
Length: 1ft
Diameter: 0.5in
Slot Size: 0.010
Material: TEFLON LINED POLYETHYLENE
Seal:
2.00 to 9.00ft BGS
Material: BENTONITE CHIPS
Sand Pack:
9.00 to 13.00ft BGS
Material: SAND

SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
1GP		54		0 / 0
2GP		52		0 / 0
3GP		60		0 / 0
11.67-12.67'				
4GP 14.5-15.5' NEG SUDAN IV		52		0 / 0
5GP		44		0 / 0

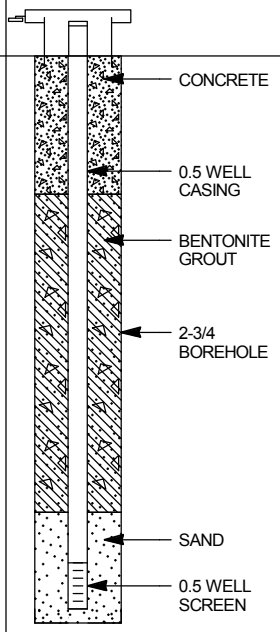
NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: GP19-18
DATE COMPLETED: January 24, 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE/A. FELDMAN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS
	TOPSOIL	0.10
2	GC-CLAYEY GRAVEL (FILL), with medium to coarse sand, fine grained, slightly consolidated, well graded, dark brown, dry - crushed rock at 1.0ft BGS - crushed rock at 3.2ft BGS	
4	- light brown staining at 4.1ft BGS	4.20
	SM-SILTY SAND (FILL), fine grained, slightly consolidated, well graded, light gray, dry	
6		
8		
	- medium grained, plastic pieces at 9.0ft BGS	
10	- medium to coarse grained at 10.0ft BGS - medium grained, plastic pieces at 10.2ft BGS	
12		
	- concrete piece at 13.2ft BGS	
14		
	- slag at 15.0ft BGS - plastic and glass pieces at 15.3ft BGS	
16	- wet at 16.0ft BGS	
18		
	CL-SANDY CLAY (FILL), fine to medium sand, cohesive, low plasticity, dark gray, moist	19.00
20	- transitions to native sandy material at 20.0ft BGS	20.00
	END OF BOREHOLE @ 20.0ft BGS	
22		
24		
26		
28		



WELL DETAILS
Screened interval:
11.00 to 12.00ft BGS
Length: 1ft
Diameter: 0.5in
Material: TEFLON LINED POLYETHYLENE
Seal:
2.80 to 9.90ft BGS
Material: BENTONITE GROUT
Sand Pack:
9.90 to 12.30ft BGS
Material: SAND

SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
1DP		66		0 / 0
2DP		46		0 / 0
				0.6
11-12' -063				1.6
3DP		50		0 / 0
4DP		94		0 / 0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

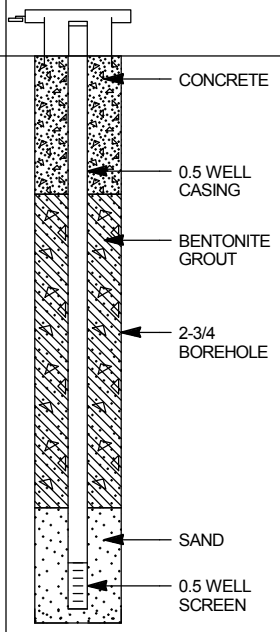
CHEMICAL ANALYSIS

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: GP20-18
DATE COMPLETED: January 22, 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE/A. FELDMAN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS
	SM-SILTY SAND (FILL), loose, fine to medium grained, trace coarse grained, well graded, brown, moist	0.50
	SW-GRAVELLY SAND (FILL), loose, fine gravel, medium grained, with coarse grained, well graded, light brown, dry	1.00
	SW-SAND (FILL), foundry sand, loose, fine grained, slightly consolidated, well graded, dark gray, dry - slag pieces at 3.5ft BGS	3.50
	SM-SILTY SAND (FILL), foundry sand, fine grained, trace medium grained, slightly consolidated, well graded, light gray, dry - 0.7' wet at 4.0ft BGS - crushed rock, with medium grained at 5.3ft BGS - 0.5' wet at 6.0ft BGS - crushed black rock material at 6.5ft BGS	6.70 9.10
	GM-SILTY GRAVEL (FILL), with medium to coarse sand, loose, fine grained, well graded, orangish brown, moist - glass pieces at 7ft BGS - 0.1' clay section at 8.7ft BGS	10.00
	CL-SANDY CLAY (FILL), trace fine gravel, medium sand, cohesive, low plasticity	
	GW-SANDY GRAVEL (native), trace fine sand, loose, medium to coarse sand, fine grained, well graded, light brown, dry - crushed rock pieces at 12.5ft BGS - crushed rock pieces at 13.5ft BGS - rock at 15.0ft BGS - gray staining from 15.0 to 16.0ft BGS - crushed rock pieces at 19.7ft BGS	
	END OF BOREHOLE @ 20.0ft BGS	20.00



WELL DETAILS
Screened interval:
11.00 to 12.00ft BGS
Length: 1ft
Diameter: 0.5in
Material: TEFLON LINED POLYETHYLENE
Seal:
3.00 to 9.80ft BGS
Material: BENTONITE GROUT
Sand Pack:
9.80 to 12.30ft BGS
Material: SAND

SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
1DP		90		0 / 0
NEG SUDAN IV				0.5
2DP		70		0 / 0
11-12' -060 NEG SUDAN IV 3DP		64		0 / 0
4DP		88		0 / 0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

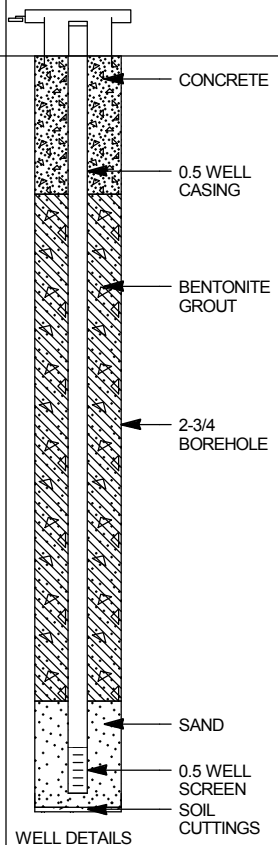
CHEMICAL ANALYSIS

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: GP25-18
DATE COMPLETED: January 29, 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE/A. FELDMAN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS
	SW-SAND (FILL), trace silt, loose, medium to coarse grained, little fine grained, well graded, black, moist - rock pieces at 0.7ft BGS	
	GC-GRAVELLY CLAY (FILL), fine gravel, cohesive, low plasticity, dark gray/olive green, moist - concrete fragments at 3.0ft BGS	2.50 3.20
	CL-CLAY (FILL), little fine gravel, cohesive, low plasticity, olive green, moist - 2 black medium grained foundry sand at 3.9ft BGS	5.50
	SW-SAND (FILL), little silt, loose, medium to coarse grained, well graded, gray/olive green, dry - red clay brick powder/pieces at 8.9ft BGS	
	SW/GW-SAND/GRAVEL (FILL), loose, medium to coarse sand, fine gravel, well graded, dark gray/black, dry	10.00
	SW-SAND (FILL), trace silt, loose, fine to medium grained, well graded, black, dry - medium to coarse grained, gray at 16.0ft BGS - white clay brick fragments at 16.2ft BGS	14.50
	SW-SILTY SAND (FILL), medium to coarse grained, consolidated, rust/dark gray, dry	16.70
	END OF BOREHOLE @ 20.0ft BGS	20.00



WELL DETAILS
Screened interval:
15.00 to 16.00ft BGS
Length: 1ft
Diameter: 0.5in
Material: TEFLON LINED POLYETHYLENE
Seal:
3.00 to 14.00ft BGS
Material: BENTONITE GROUT
Sand Pack:
14.00 to 16.40ft BGS
Material: SAND

SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
1DP		74		0 / 0
				1.4
2DP		60		0 / 0
3DP		64		0 / 0
15-16' -057				
4DP		60		0 / 0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

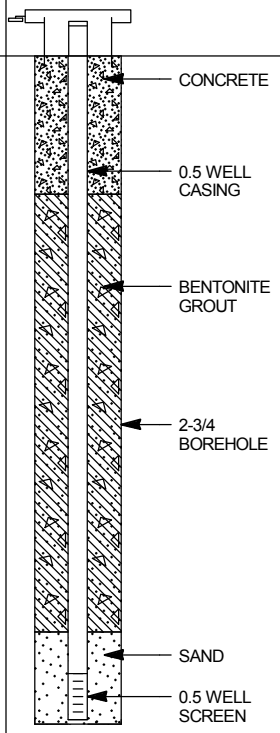
STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: GP26-18
DATE COMPLETED: January 29, 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE/A. FELDMAN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS
	TOPSOIL	0.25
2	SW-SAND (FILL), trace fine gravel, loose, medium to coarse grained, well graded, dark gray/brown, dry	
		3.20
4	SW-SAND (FILL), trace fine gravel, loose, fine to medium grained, trace coarse grained, well graded, dark brown, dry - slag pieces at 4.0ft BGS	
6	- increase in silt content, slightly consolidated, dark gray at 4.1ft BGS	5.40
8	SW-SAND (FILL), trace silt, loose, fine, medium and coarse grained, well graded, gray/light gray, dry	
10		
12		
	- red clay brick at 13.0ft BGS	13.00
14	SM-SILTY SAND (FILL), fine, medium and coarse grained, consolidated, dark gray	
16		
18		
20	- red clay brick at 19.8ft BGS END OF BOREHOLE @ 20.0ft BGS	20.00
22		
24		
26		
28		

GAS PROBE



WELL DETAILS
Screened interval:
13.40 to 14.40ft BGS
Length: 1ft
Diameter: 0.5in
Material: TEFLON LINED POLYETHYLENE
Seal:
3.00 to 12.50ft BGS
Material: BENTONITE GROUT
Sand Pack:
12.50 to 14.50ft BGS
Material: SAND

SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
1DP				0 / 0
2DP				0 / 0
3DP				0 / 0
13.5-14.5' -065				0.5
4DP				0 / 0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: GP27-18
DATE COMPLETED: January 30, 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE/A. FELDMAN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	GAS PROBE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
2	SW-SAND (FILL), fine to medium grained, slightly consolidated, well graded, brown, dry - concrete pieces at 1.8ft BGS - 0.2' increase in silt content at 2.4ft BGS - with fine gravel, with coarse grained, dark gray at 2.7ft BGS		CONCRETE BENTONITE GROUT 0.5 WELL CASING	1DP		96		0 / 0
4			2-3/4 BOREHOLE					2.7
6	- loose, increase in silt content at 5.0ft BGS		SAND					
8			0.5 WELL SCREEN SOIL CUTTINGS	2DP 7-8' -067		100		3.2 0 / 0
10	SW-SAND (FILL), trace fine gravel, loose, fine to medium grained, with coarse grained, well graded, brown, dry	9.60						
12	- 0.5' metallic paper at 11.8ft BGS							
14	SM-SILTY SAND (FILL), fine to medium grained, slightly consolidated, well graded, dark gray, dry - 0.2' multicolored frock fragments at 12.9ft BGS - 0.1' light green slag fragments at 13.4ft BGS - moist at 15.0ft BGS	12.40		3DP		80		0 / 0
16								
18	- wet at 17.0ft BGS - clayey, brown at 19.0ft BGS			4DP		82		0 / 0
20	END OF BOREHOLE @ 20.0ft BGS	20.00						
22								
24								
26								
28								

WELL DETAILS
Screened interval:
7.00 to 8.00ft BGS
Length: 1ft
Diameter: 0.5in
Material: TEFLON LINED POLYETHYLENE
Seal:
3.00 to 6.00ft BGS
Material: BENTONITE GROUT
Sand Pack:
6.00 to 8.10ft BGS
Material: SAND

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

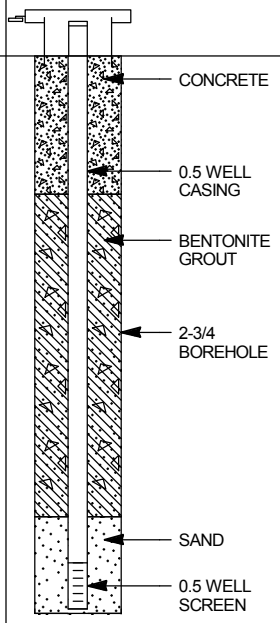
CHEMICAL ANALYSIS

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: GP28-18
DATE COMPLETED: January 30, 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE/A. FELDMAN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
	SW-SAND (FILL), with fine gravel, loose, fine to medium grained, well graded, gray, dry						
2			1DP		44		0 / 0
4	- wood chip at 4.0ft BGS - increase in silt content, moist at 4.0ft BGS						
	SM-SILTY SAND (FILL), with fine gravel, medium to coarse grained, slightly consolidated, well graded, brown, dry	5.00					
6	- concrete pieces at 6.0ft BGS	6.20					
	SW/SM-SAND (FILL), with silt, fine to medium grained, slightly consolidated, well graded, dark gray, dry	7.60	2DP		52		8.3 0 / 0
8	- plastic pieces and wood chips at 7.6ft BGS						
	NO RECOVERY, sample blinded						
10	GW-SANDY GRAVEL (FILL), loose, medium to coarse sand, fine grained, well graded, gray/brown, dry	10.00 10.50					1.4
12	- large wood chips at 10.5ft BGS						
	NO RECOVERY, sample blinded		3DP		24		0 / 0
14							
	GM-SILTY GRAVEL (FILL), with clay, fine grained, slightly consolidated, well graded, brown/gray, dry	14.50 15.00					
16			15-16' -068				456
	SM-SILTY SAND (FILL), foundry sand, loose, fine grained, trace medium grained, well graded, dark gray, dry						
18	- 0.1' brown staining at 15.5ft BGS - 0.2' concrete pieces at 18.0ft BGS - increase in moisture content at 18.0ft BGS		4DP		50		0 / 0
20	END OF BOREHOLE @ 20.0ft BGS	20.00					
22							
24							
26							
28							



WELL DETAILS
Screened interval:
11.00 to 12.00ft BGS
Length: 1ft
Diameter: 0.5in
Material: TEFLON LINED POLYETHYLENE
Seal:
3.00 to 10.00ft BGS
Material: BENTONITE GROUT
Sand Pack:
10.00 to 12.10ft BGS
Material: SAND

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

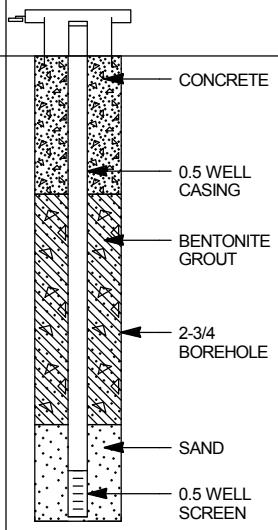
STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: GP29-18
DATE COMPLETED: January 30, 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE/A. FELDMAN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS
	TOPSOIL	0.20
2	GW-SANDY GRAVEL (FILL), loose, medium to coarse sand, trace fine sand, fine grained, well graded, brown/gray, dry - 0.2' clay material, slightly consolidated at 1.0ft BGS - intermixed with crushed slag at 1.0ft BGS	
4		
6	GM-SILTY GRAVEL (FILL), with fine sand, fine grained, consolidated, well graded, brown, moist - 0.1' concrete pieces at 6.5ft BGS	5.70 6.50
8	SM-SILTY SAND (FILL), fine grained, slightly consolidated, well graded, dark brown, dry - 0.1' iron staining at 8.4ft BGS - slag pieces at 9.0ft BGS	
10	- 0.1' pink staining at 10.0ft BGS	
12		
14	- 0.6' increase in clay content, poorly graded, moist at 13.0ft BGS - moist from 13.0 to 15.0ft BGS	
16		
18	- with clay, purple ink from 17.0 to 18.0ft BGS - REFUSAL at 18.5ft BGS	18.50
20	END OF BOREHOLE @ 18.5ft BGS	
22		
24		
26		
28		

GAS PROBE



WELL DETAILS
Screened interval:
9.00 to 10.00ft BGS
Length: 1ft
Diameter: 0.5in
Material: TEFLON LINED POLYETHYLENE
Seal:
3.00 to 8.00ft BGS
Material: BENTONITE GROUT
Sand Pack:
8.00 to 10.10ft BGS
Material: SAND

SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
1DP		60		0 / 0
2DP		68		0 / 0
9-10' -069				0.6
3DP		82		0 / 0
4DP		100		0 / 0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

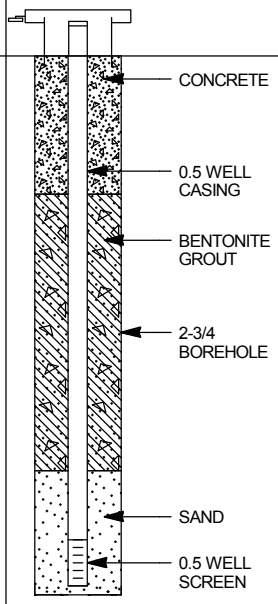
CHEMICAL ANALYSIS

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: GP30-18
DATE COMPLETED: January 17, 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS
	TOPSOIL, grass	0.20
	GW-SANDY GRAVEL (FILL), loose, medium to coarse sand, fine grained, well graded, light brown, dry	0.50
2	SM-SILTY SAND (FILL), fine grained, slightly consolidated, well graded, gray, dry	1.40
4	GW-SANDY GRAVEL (FILL), medium to coarse sand, fine grained, slightly consolidated, well graded, light brown, dry, glass pieces, plastic pieces	4.00
6	SM-SILTY SAND (FILL), fine grained, slightly consolidated, gray, dry	5.00
	SM-SILTY SAND (FILL), fine grained, trace coarse grained, slightly consolidated, well graded, light gray, wet	5.50
8	GM-SILTY GRAVEL, with medium to coarse sand, fine grained, slightly consolidated, well graded, orangish brown, moist	
10	- glass pieces at 9.2ft BGS	9.50
12	GW-SAND GRAVEL (native), medium to coarse sand, fine to coarse grained, slightly consolidated, well graded, light brown, dry - broken rock at 10.5ft BGS	
14	- dark brown staining at 15.1ft BGS	
16	- light gray rock at 16.5ft BGS - 0.2' light brown sand at 17.0ft BGS	
18	- light gray rock at 18.5ft BGS	
20	- light gray rock at 19.5ft BGS END OF BOREHOLE @ 20.0ft BGS	20.00
22		
24		
26		
28		



WELL DETAILS
Screened interval:
10.50 to 11.50ft BGS
Length: 1ft
Diameter: 0.5in
Material: TEFLON LINED POLYETHYLENE
Seal:
3.00 to 9.00ft BGS
Material: BENTONITE GROUT
Sand Pack:
9.00 to 11.70ft BGS
Material: SAND

SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
1DP		58		0 / 0
2DP		42		0 / 0
(10.5-11.5' -049)				
3DP		74		0 / 0
4DP		84		0 / 0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

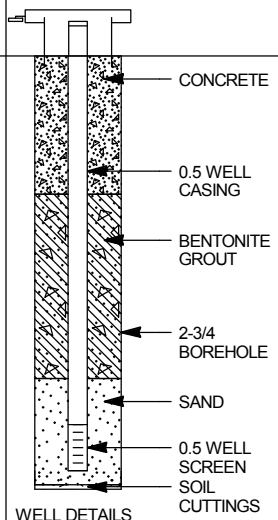
STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: GP31-18
DATE COMPLETED: January 19, 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS
	ASPHALT	0.17
2	SW-SAND (FILL), foundry sand, loose, medium to coarse grained, some fine grained, well graded, black/dark gray, dry - red clay brick fragments at 1.0ft BGS - yellow/tan brick fragments from 1.7 to 1.9ft BGS	
4	- rust staining at 2.0ft BGS - fine grained, gray, moist from 2.4 to 2.6ft BGS - little coarse gravel pieces at 2.8ft BGS	
6	- little coarse gravel pieces at 4.7ft BGS - slag fragments at 5.3ft BGS	5.80 6.40
8	CL-CLAY (FILL), trace silt and fine sand, cohesive, low plasticity, dark brown, moist - fine gravel pieces at 6.0ft BGS	
10	SW-SAND (native), with fine gravel, loose, fine, medium and coarse grained, well graded, tan/off white, dry	
12		
14		
16		
18	GM-SILTY GRAVEL, fine grained, slightly cohesive, well graded, medium brown, dry	18.00
	SW-SAND, loose, fine to medium grained, well graded, light brown/tan, dry	19.20
20	END OF BOREHOLE @ 20.0ft BGS	20.00
22		
24		
26		
28		

GAS PROBE



WELL DETAILS
Screened interval:
8.00 to 9.00ft BGS
Length: 1ft
Diameter: 0.5in
Material: TEFLON LINED POLYETHYLENE
Seal:
3.00 to 7.00ft BGS
Material: BENTONITE GROUT
Sand Pack:
7.00 to 9.30ft BGS
Material: SAND

SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
1DP		76		0 / 0
2DP		78		0 / 0
8-9' -056				
3DP		80		0 / 0
4DP		60		0 / 0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

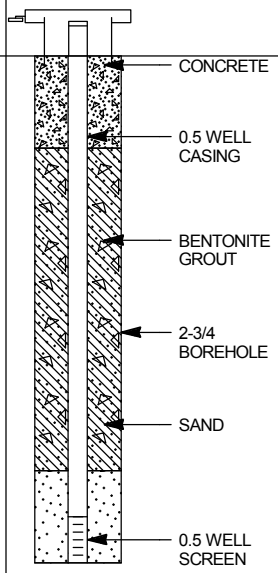
STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: GP32-18
DATE COMPLETED: January 10, 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS
	GW-SANDY GRAVEL (FILL), few silt, loose, fine, medium and coarse sand, fine grained, well graded, dark gray/light brown, moist	1.00
2	SW-GRAVELLY SAND (FILL), few silt, fine gravel, fine, medium and coarse grained, slightly consolidated, well graded, dark gray/black, moist - 0.2' section light brown sand and coarse gravel at 1.8ft BGS	2.00
4	SW-SAND (FILL), with fine gravel, fine to medium grained, slightly consolidated, well graded, dark gray, dry - 0.2' dark brown at 3.0ft BGS - 0.1' dark brown at 4.7ft BGS - fine gravel pieces, slough at 5.1ft BGS	
6		
8	- yellowish/orange coarse gravel piece at 6.5ft BGS	8.00
	SM-SILTY SAND (FILL), fine to medium grained, slightly consolidated, well graded, light gray, dry	9.70
10	SW-SAND (FILL), loose, medium to coarse grained, well graded, light brown, dry	
12		
14	- coarse gravel pieces, glass, and white powder at 14.0ft BGS - increase in silt content, fine gravel pieces, yellowish orange at 14.7ft BGS	
16		
18		
	- tan at 18.9ft BGS	19.00
20	SW-SAND (FILL), with fine gravel, medium to coarse grained, slightly consolidated, well graded, light gray, dry	19.80 20.00
22	SW-GRAVELLY SAND (FILL), loose, fine gravel, medium to coarse grained, well graded, dark brown/orange, dry	
	END OF BOREHOLE @ 20.0ft BGS	
24		
26		
28		

GAS PROBE



WELL DETAILS
Screened interval:
10.00 to 11.00ft BGS
Length: 1ft
Diameter: 0.5in
Material: TEFLON LINED POLYETHYLENE
Seal:
2.00 to 9.00ft BGS
Material: BENTONITE GROUT
Sand Pack:
9.00 to 11.00ft BGS
Material: SAND

SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
				2.2
1DP		70		0 / 0
2DP		66		0 / 0
10-11'-037				
3DP		20		0 / 0
4DP		32		0 / 0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

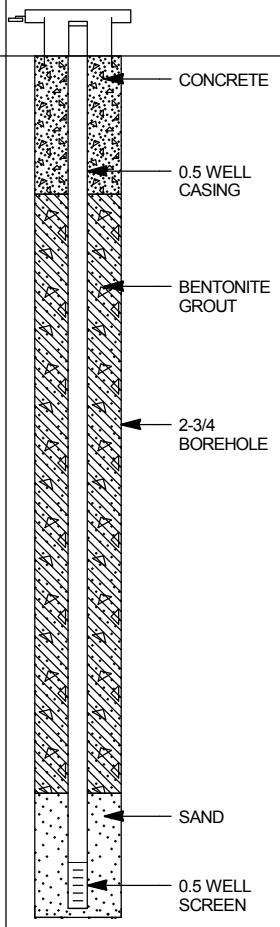
STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: GP33-18
DATE COMPLETED: January 22, 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS
	SW-SAND (FILL), loose, fine to medium grained, well graded, dark brown, moist	1.00
2	SW-GRAVELLY SAND (FILL), with fine gravel, loose, medium to coarse grained, well graded, brown, dry	2.30
	SM-SILTY SAND (FILL), with fine gravel, slightly consolidated, well graded, dark brown, dry	3.60
4	SW-GRAVELLY SAND (FILL), medium to coarse grained, with fine grained, slightly consolidated, well graded, dark brown, dry - black cinders at 3.7ft BGS	
6	- yellowish brown staining at 4.3ft BGS	6.00
8	SM-SILTY SAND, foundry sand, fine grained, trace coarse grained, consolidated, well graded, light gray, dry	
10	- moist at 11.0ft BGS	
12	GW-SAND GRAVEL (FILL), loose, medium to coarse sand, fine grained, well graded, orangish brown, dry	12.00
14	CL-SANDY CLAY (FILL), fine sand, with medium sand, cohesive, slightly compact, brown, dry	14.00
16		
18	GW-SANDY GRAVEL (native), loose, medium to coarse sand, fine grained, well graded, light brown, dry	17.00
20	END OF BOREHOLE @ 20.0ft BGS	20.00
22		
24		
26		
28		

GAS PROBE



WELL DETAILS
Screened interval:
17.50 to 18.50ft BGS
Length: 1ft
Diameter: 0.5in
Material: TEFLON LINED POLYETHYLENE
Seal:
3.00 to 16.00ft BGS
Material: BENTONITE GROUT
Sand Pack:
16.00 to 18.70ft BGS
Material: #3 SAND

SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
1DP		70		0 / 0
2DP		94		0 / 0
3DP		40		0 / 0
4DP 17.5-18.5 -078 NEG SUDAN IV		88		0 / 0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

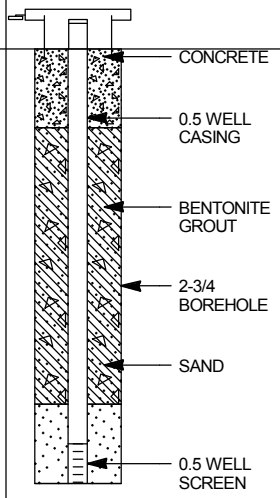
STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: GP34-18
DATE COMPLETED: July 31, 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS
	TOPSOIL, silt, grass	0.50
2	SW/GW-SAND/GRAVEL (FILL), loose, fine sand, fine gravel, well graded, tan/off-white, dry	
4	SM-SILTY SAND (FILL) (foundry sand), slightly consolidated, fine grained, well graded, gray, dry	3.50 4.00 4.50
6	SW/GW-SAND/GRAVEL (FILL), loose, fine sand, fine gravel, well graded, tan/off-white, dry SW-SAND (FILL), loose, fine to medium grained, well graded, brown/dark gray, dry	
8	SM-SILTY SAND (FILL), consolidated, fine grained, dark brown, dry	7.50
10	SW/GW-SAND/GRAVEL (NATIVE), loose, medium to coarse sand, fine gravel, well graded, tan/light brown, dry	9.00
12		
14		
16		
18		
20		
22	- wet at 22.3ft BGS	
24	END OF BOREHOLE @ 24.0ft BGS	24.00
26		
28		
30		
32		
34		

GAS PROBE



WELL DETAILS
Screened interval:
10.00 to 11.00ft BGS
Length: 1ft
Diameter: 0.5in
Material: TEFLON LINED POLYETHYLENE
Seal:
2.00 to 9.00ft BGS
Material: BENTONITE GROUT
Sand Pack:
9.00 to 11.00ft BGS
Material: SAND

SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
1GP		75		0 / 0
2GP		40		0 / 0
3GP 10-11'		55		0 / 0
4GP		53		0 / 0
5GP		63		0 / 0
6GP NEG SUDAN IV		65		0 / 0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇
CHEMICAL ANALYSIS ⬭

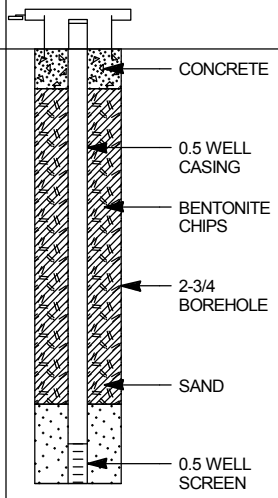
STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: GP35-19
DATE COMPLETED: January 15, 2019
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS
	TOPSOIL	0.17
	ML-SILT, little clay cohesive, dark brown, moist	1.00
2	SW/GW-SAND/GRAVEL, loose, fine, medium and coarse sand, fine gravel, well graded, tan/brown, dry	
4		
6	- 2" silty sand at 5.7ft BGS	
8		
10		
12		
14		
16	- wet at 15.7ft BGS	
18		
20	END OF BOREHOLE @ 20.0ft BGS	20.00
22		
24		
26		
28		
30		
32		
34		

GAS PROBE



WELL DETAILS
Screened interval:
10.00 to 11.00ft BGS
Length: 1ft
Diameter: 0.5in
Slot Size: 0.010
Material: TEFLON LINED POLYETHYLENE
Seal:
1.00 to 9.00ft BGS
Material: BENTONITE CHIPS
Sand Pack:
9.00 to 11.00ft BGS
Material: SAND

SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
1GP		35		0 / 0
2GP		56		0 / 0
3GP 10-11'		63		0 / 0
4GP 14.5-15.5' NEG SUDAN IV		63		0 / 0
5GP		40		0 / 0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ∇
CHEMICAL ANALYSIS ◯

Attachment 2

Table 1

Soil Gas Probes - Field Parameters - March 2018
South Dayton Dump Landfill
Moraine, Ohio

Location	Field Parameters						
	Pressure (in WC)	CO_2 % v/v	O_2 % v/v	LEL % v/v	Methane % v/v	H_2S (ppm)	VOC (ppm)
GP01-18	-0.0211	7.3	0.0	>100	21.6	0	0.0
GP02-09	0.00368	11.4	0.0	>100	14.6	0	0.0
GP03-09	-0.00260	0.0	20.9	0	0.0	0	0.6
GP04-09	-0.00937	2.9	1.5	13	0.7	0	0.3
GP05-09	-0.00331	5.8	9.2	0	0.0	0	1.1
GP06-09	Could not be found (flushmount)						
GP07-09	Under a tire pile (flushmount)						
GP08-09	Could not be found (stick up)						
GP09-09	-0.00233	2.8	20.2	0	0.0	0	0.6
GP10-09[2]	0.00253	2.9	0.0	7	0.4	0	0.7
	0.00371	2.9	0.0	7	0.3	0	0.6
GP11-09	-0.00341	2.8	19.5	0	0.0	0	0.5
GP12-09	-0.0241	0.1	21	0	0.0	0	0.0
GP13-09	-0.0158	8.5	2.1	0	0.0	0	0.2
GP14-09	0.00243	1.2	18.3	0	0.0	0	0.5
GP15-09	-0.01462	5.3	14.6	0	0.0	0	0.9
GP16-09	-0.00976	5.4	0.0	50	2.5	0	0.4
GP17-09	Buried under asphalt						
GP18-09	Buried under asphalt						
GP19-18	-0.0494	8.5	0.3	63	3.2	0	4.8
GP20-18	-0.0272	8.3	4.1	0	0.0	0	3.0
GP21-09	-0.0572	Restricted pump flow on GEM2000+ and PID (valve open)					
GP22-13	-0.0393	9.8	0.0	0	0.0	0	0.2
GP23-13	-0.00476	5.4	14.9	0	0	0	0.1
GP24A-13	-0.00728	7.3	13.0	0	0.0	0	0.1
GP24B-13	-0.00069	3.7	17.8	0	0.0	0	0.0
GP25-18	-0.00585	5.2	0.6	58	2.9	0	0.0
GP26-18	-0.0301	7.7	0.0	51	2.5	0	3.3
GP27-18	0.00217	4.7	0.0	17	0.8	0	20.2
GP28-18	0.00323	3.8	0.0	>100	5.3	0	6.5
GP29-18	-0.0213	4.4	2.5	7	0.3	0	10.6
GP30-18	-0.00732	0.0	20.7	0	0.0	0	0.3
GP31-18	0.0152	0.5	19.7	0	0.0	0	2.0
GP32-18	0.01553	9.2	8.0	0	0.0	0	0.0
GP33-18	-0.0301	11.9	2.5	0	0.0	0	0.0
USEPA GP-1 North	-0.462	1.7	19.6	0	0.0	0	0.0
USEPA GP-1 Middle	-0.00342	0.6	20.7	0	0.0	0	0.0
USEPA GP-1 South	-0.431	No flow on GEM2000+; No flow PID					
USEPA GP-2	Excluded from Field Paramter Montoring						
USEPA GP-3 North	-0.00769	2.2	19.1	0	0	0	0.1
USEPA GP-3 SW	0.00512	1.1	19.6	0	0	0	0
USEPA GP-3 SE	0.00225	No flow on GEM2000+; No flow PID					
USEPA GP-4 North	-0.00813	2.5	17.7	0	0.0	0	0.1
USEPA GP-4 Middle	-0.00971	2.4	18.8	0	0.0	0	0.0
USEPA GP-4 South	-0.00778	2.2	19.2	0	0.0	0	0.0
USEPA GP-5 North	-1.115	4.7	15.6	0	0.0	0	0.0
USEPA GP-5 South	-0.00637	4.4	16.2	0	0.0	0	0.0
USEPA GP-6 North	-0.00475	3.2	17.5	0	0.0	0	0.0
USEPA GP-6 Middle	-0.00168	4.0	16.4	0	0.0	0	0.0
USEPA GP-6 South	-0.00316	5.1	14.4	0	0.0	0	0.0
USEPA GP-7	Could not be found						

[1] - North American Datum of 1983 (NAD83), U.S. Survey feet

CO_2	Carbon Dioxide
O^2	Oxygen
LEL	Lower Explosive Limit
H_2S	Hydrogen Sulfide
VOC	Volatile Organic Compounds
BTOR	Below Top of Riser
% v/v	Percent by Volume
in WC	Inches Water Column

3/22/2018
Barmoetric Pressure
29.48" Hg
Rel Pressure
-0000.08"
Weather
Clear, sunny, 34 ^{0} F
Forecast
Sunny, 48º F

Table 2a

Soil Gas Probes - Field Parameters - August 2018
South Dayton Dump Landfill
Moraine, Ohio

	Field Parameters							
Location	**Pressure (in WC)**	**CO_2 % v/v**	**CO ppm**	**O_2 % v/v**	**LEL % v/v**	**Methane (Unfiltered) % v/v**	**H_2S (ppm)**	**VOC (ppm)**
GP01-18		16.4	0	0.0	>100	35.4	1	2.6
GP02-09		13.1	1	0.0	>100	14.8	8	0.0
GP03-09		6.4	0	11.5	0	0.0	0	0.0
GP04-09		5.5	1	0.2	5	0.2	0	0.0
GP05-09		10.2	1	7.3	0	0.0	0	0.0
GP06-09		4.7	77	13.8	3	0.1	0	36.4
GP07-18		14.3	57	0.0	>100	60.4	6	205.0
GP08-09	Insufficient gas flow. No readings.							
GP09-09		7.9	0	12.1	0	0.0	0	0.0
GP10-09		2.9	1	0.0	0	0.0	0	0.0
GP11-09		6.4	0	12.5	0	0.0	0	0.0
GP12-09		0.9	0	18.8	0	0.0	0	0.0
GP13-09		14.3	0	0.0	0	0.0	0	0.0
GP14-09		3.3	0	16.2	0	0.0	0	5.4
GP15-09		6.3	0	12.8	0	0.0	0	0.0
GP16-09		9.7	0	0.0	13	0.7	0	0.0
GP19-18		11.2	1	0.0	40	2.0	2	0.0
GP20-18		10.7	1	2.4	0	0.0	0	0.0
GP21-09		1.8	0	0.0	33	1.6	1	0.0
GP22-13		9.3	1	0.0	1	0.0	0	0.0
GP23-13		7.2	0	10.7	0	0.0	0	0.0
GP24A-13		11.8	0	5.5	0	0.0	0	0.0
GP24B-13		6.7	1	11.7	0	0.0	0	0.0
GP25-18		3.8	1	1.6	64	3.2	6	0.0
GP26-18		9.6	4	0.0	52	2.6	0	0.0
GP27-18		7.7	1	0.0	10	0.5	0	2.7
GP28-18		4.5	1	0.0	>100	7.0	2	0.0
GP29-18		5.0	1	0.0	1	0.0	0	0.0
GP30-18		0.0	0	20.0	0	0.0	0	0.0
GP31-18		0.9	0	18.9	0	0.0	0	0.0
GP32-18		17.0	0	0.2	4	0.2	0	0.1
GP33-18		13.1	0	1.0	0	0.0	0	0.0
GP34-18		10.2	0	6.3	0	0.0	0	0.0
USEPA GP-1 North		3.4	1	15.5	0	0.0	0	0.0
USEPA GP-1 Middle		2.3	1	16.9	0	0.0	0	0.0
USEPA GP-1 South	Insufficient gas flow. No readings.							
USEPA GP-2	Excluded from Field Paramters Montoring							
USEPA GP-3 North USEPA GP-3 SW USEPA GP-3 SE	Probe could not be located. No readings.							
USEPA GP-4 North		6.7	0	2.9	0	0.0	0	3.1
USEPA GP-4 Middle		6.8	0	2.5	0	0.0	0	2.9
USEPA GP-4 South		6.1	0	2.1	0	0.0	0	2.7
USEPA GP-5 North USEPA GP-5 South		4.7	0	12.8	0	0.0	0	2.7
USEPA GP-6 North		7.0	0	7.6	0	0.0	0	3.1
USEPA GP-6 Middle		7.6	0	6.7	0	0.0	0	2.9
USEPA GP-6 South		8.1	0	5.7	0	0.0	0	2.7
USEPA GP-7	Probe could not be located. No readings.							

[1] - North American Datum of 1983 (NAD83), U.S. Survey feet

CO_2	Carbon Dioxide
O^2	Oxygen
LEL	Lower Explosive Limit
H_2S	Hydrogen Sulfide
VOC	Volatile Organic Compounds
BTOR	Below Top of Riser
% v/v	Percent by Volume
in WC	Inches Water Column

8/24/2018
Barmoetric Pressure
29.34-29.38" Hg
Weather
Clear, 58 F
Forecast
Sunny, 81º F, possible afternoon rain

Table 2b

Soil Gas Probes - Field Parameters - September 2018
South Dayton Dump Landfill
Moraine, Ohio

	Field Parameters									
Location	**Pressure (in WC)**	**CO_2 % v/v**	**CO ppm**	**O_2 % v/v**	**LEL (Unfiltered) % v/v**	**LEL (Filtered) % v/v**	**Methane (Unfiltered) % v/v**	**Methane (Filtered) % v/v**	**H_2S (ppm)**	**VOC (ppm)**
GP01-18	0.0212	16.40	0	0.10	>100	>100	34.60	34.7	0	
GP02-09	0.01557	13.50	0	0.10	>100	>100	14.60	14.6	0	
GP03-09	0.00377									
GP04-09	0.0245									
GP05-09	0.00054 to -0.00231									
GP06-09	-0.00247									
GP07-18	-0.00289	14.70	36	0.00	>100/>100	6	39.4/39.3	0.30	0	
GP08-09	0.00011 to -0.00173									
GP09-09	0.00112									
GP10-09	-0.00073									
GP11-09	-0.00690									
GP12-09	-0.00594									
GP13-09	-0.00843									
GP14-09	-0.00326									
GP15-09	-0.00776									
GP16-09	-0.0240	11.30	0	0.00	28	28	1.40	1.40	0	
GP19-18	0.00805									
GP20-18	0.0143									
GP21-09	-0.00252	2.10	0	0.10	37	37	1.80	1.80	0	
GP22-13	0.00241									
GP23-13	-0.00285									
GP24A-13	-0.00408									
GP24B-13	-0.00619									
GP25-18	-0.00025 to 0.00029	3.70	0	1.60	64	61	3.20	3.00	0	
GP26-18	0.0207	10.10	0	0.00	41	40	2.00	2.00	0	
GP27-18	0.00130									
GP28-18	0.00625	4.80	0	0.10	97	96	4.70	4.60	0	
GP29-18	0.01073									
GP30-18	-0.00037									
GP31-18	-0.00707									
GP32-18	0.209									
GP33-18	-0.0146									
GP34-18	0.00442									
USEPA GP-1 North	0.00013 to -0.00133									
USEPA GP-1 Middle	-0.00356									
USEPA GP-1 South	-0.0212									
USEPA GP-2	Excluded from Field Paramter Montoring									
USEPA GP-3 North	-0.1407	5.20	0	11.30	0	n/a	0.00	n/a	0	
USEPA GP-3 SW	-0.00131	3.80	0	14.70	0	n/a	0.00	n/a	0	
USEPA GP-3 SE	0.00348 to -0.00257	Insufficient flow to collect readings								
USEPA GP-4 North	0.00245 to -0.00017									
USEPA GP-4 Middle	-0.422									
USEPA GP-4 South	-0.00352									
USEPA GP-5 North	0.00912									
USEPA GP-5 South										
USEPA GP-6 North	-0.00225									
USEPA GP-6 Middle	0.00046 to -0.00177									
USEPA GP-6 South	-0.00317									
USEPA GP-7 West	-0.00148	8.00	0	9.60	0	n/a	0.00	n/a	0	
USEPA GP-7 Middle	0.00022	8.20	0	9.90	0	n/a	0.00	n/a	0	
USEPA GP-7 East	-0.00078 to 0.00125	6.20	0	12.20	0	n/a	0.00	n/a	0	

[1] - North American Datum of 1983 (NAD83), U.S. Survey feet

9/4/18-9/5/18
Barmoetric Pressure
29.38-29.42" Hg

CO_2	Carbon Dioxide
O^2	Oxygen
LEL	Lower Explosive Limit
H_2S	Hydrogen Sulfide
VOC	Volatile Organic Compounds
BTOR	Below Top of Riser
% v/v	Percent by Volume
in WC	Inches Water Column

Table 3

Soil Gas Probes - Field Parameters - November 2018
South Dayton Dump Landfill
Moraine, Ohio

Location	Field Parameters									
	Pressure (in WC)	CO_2 % v/v	CO ppm	O_2 % v/v	LEL (Unfiltered) % v/v	LEL (Filtered) % v/v	Methane (Unfiltered) % v/v	Methane (Filtered) % v/v	H_2S (ppm)	VOC (ppm)
GP01-18	-0.00230	12.2	0	0.0	>100	>100	27.6	27.1	0	0.0
GP02-09	-0.0217	14.2	0	0.8	>100	>100	17.3	17.1	0	0.0
GP03-09	0.00314	Insufficient flow to collect readings, probe appear to be flooded								
GP04-09	-0.0120	0.0	0	21.4	3	14	0.1	0.7	0	0.0
GP05-09	0.00700	6.7	0	11.5	3	3	0.1	0.1	0	0.1
GP06-09	-0.00375	2.3	0	15.7	0	0	0.0	0.0	0	0.0
GP07-18	0.00562	13.4	5	0.0	>100	4	5.2	0.2	3	55.8
GP08-09	-0.00601	Insufficient flow to collect readings								
GP09-09	Inaccessible, covered by wood pile									
GP10-09	-0.01253	4.0	0	0.0	5	5	0.2	0.2	0	25.4
GP11-09	-0.00577	4.2	0	16.2	3	3	0.1	0.1	0	0.3
GP12-09	-0.00388	0.3	0	20.9	0	0	0.0	0.0	0	0.7
GP13-09	0.0215	12.2	0	1.6	0	0	0.0	0.0	0	0.0
GP14-09	0.00134	2.3	0	18.7	0	0	0.0	0.0	0	0.0
GP15-09	0.01163	7.4	0	11.5	0	0	0.0	0.0	0	0.0
GP16-09	0.0278	8.8	0	0.0	29	29	1.4	1.4	0	0.0
GP19-18	-0.0792	11.8	0	0.0	38	36	1.9	1.8	1	0.0
GP20-18	0.0247	13.8	0	0.5	0	0	0.0	0.0	0	0.0
GP21-09	0.01913	0.5	0	12.8	32	42	1.6	2.1	0	0.0
GP22-13	-0.0320	12.2	0	0.1	2	2	0.1	0.1	0	1.4
GP23-13	-0.00931	9.9	0	9.8	0	0	0.0	0.0	0	4.9
GP24A-13	-0.00320	13.9	0	6.2	0	0	0.0	0.0	0	4.6
GP24B-13	-0.013459	6.3	0	12.4	0	0	0.0	0.0	0	6.1
GP25-18	0.00000	4.9	0	2.3	95	95	4.7	4.7	4	0.0
GP26-18	-0.0167	10.2	0	1.1	82	80	4.1	4.0	0	0.0
GP27-18	0.00344	6.2	0	0.9	35	32	1.7	1.6	0	5.4
GP28-18	0.00881	5.4	0	0.9	>100	>100	6.5	6.0	1	0.6
GP29-18	-0.01813	5.9	0	1.9	6	6	0.3	0.3	0	1.0
GP30-18	0.00000	0.0	0	21.1	0	0	0.0	0.0	0	0.4
GP31-18	-0.00169	0.0	0	21.3	0	0	0.0	0.0	0	7.7
GP32-18	-0.01732	14.9	0	4.9	0	0	0.0	0.0	0	0.0
GP33-18	0.00124	15.2	0	0.4	0	0	0.0	0.0	0	0.0
GP34-18	-6.80	9.4	0	9.5	0	0	0.0	0.0	0	4.8
USEPA GP-1 North	-0.1290	Insufficient flow to collect readings								
USEPA GP-1 Middle	-0.0346	1.6	0	20.0	0	0	0.0	0.0	0	25.0
USEPA GP-1 South	-3.18	3.7	0	17.6	0	0	0.0	0.0	0	18.5
USEPA GP-2	Excluded from Field Paramter Montoring									
USEPA GP-3 North	-0.268	4.2	0	15.0	0	0	0.0	0.0	0	3.0
USEPA GP-3 SW	0.0788	2.2	0	18.5	0	0	0.0	0.0	0	3.8
USEPA GP-3 SE	-0.00453	Insufficient flow to collect readings								
USEPA GP-4 North	0.0141	5.8	0	10.4	0	0	0.0	0.0	0	0.0
USEPA GP-4 Middle	-0.540	6.1	0	11.0	0	0	0.0	0.0	0	0.0
USEPA GP-4 South	0.00098	6.1	0	10.3	0	0	0.0	0.0	0	0.0
USEPA GP-5 North	0.00284	6.8	0	7.7	0	0	0.0	0.0	0	0.0
USEPA GP-5 South	-0.00136	6.3	0	7.9	0	0	0.0	0.0	0	0.0
USEPA GP-6 North USEPA GP-6 Middle USEPA GP-6 South	Soil gas probe could not be found due to vegetation, snow and ice.									
USEPA GP-7 West	-0.00255	6.6	0	15.1	0	0	0.0	0.0	4.3	0.0
USEPA GP-7 Middle	-0.0073	4.3	0	17.5	0	0	0.0	0.0	0	5.2
USEPA GP-7 East	0.0198	4.3	0	17.4	0	0	0.0	0.0	0	6.2

[1] - North American Datum of 1983 (NAD83), U.S. Survey feet

11/12/18 - 11/14/18
Barmoetric Pressure
30.01"-30.55" Hg

CO_2	Carbon Dioxide
O^2	Oxygen
LEL	Lower Explosive Limit
H_2S	Hydrogen Sulfide
VOC	Volatile Organic Compounds
BTOR	Below Top of Riser
% v/v	Percent by Volume
in WC	Inches Water Column

Attachment 3

CONTENTS

PAGE NO.	REFERENCE	DATE

038443-330 8/14/18

0942 G. LEWIS, C. McLAUGHLIN ONSITE

* WEATHER: CLEAR, 67°F; FORECAST SUN, 85°F

* ACTIVITIES: BELOW SUMMA CANISTER SAMPLING @ SV PROBES

0948 ① LM ONSITE @ SDD TO DROP-OFF ROLL-OFF BOX FOR DP'L DRILLING SOIL

* NO LINER, NO BOLTS, NO TARP, HOLES IN CONTAINER BOTTOM

② BUILD 2ND "TRANE" SET-UP FOR SUMMA SAMPLING

0000 DECON PARTS + BAKE @ 200°F FOR 20 MINS.

0815 BRETT (JACOBS) ONSITE

* REVIEWING RPT. 31 FOR PROTOCOL; FIND "48 HOUR" WAIT TIME IN SAP (AFTER >.5" RAIN)

~ CALL JULIAN H. TO ENQUIRE

** LM ON WORK PHONE

0840 J. HAYWARD PHONED TO SAY "CONTINUE W/ SAMPLING @ SDD BASED ON DAYTON AIRPORT, RAIN TOTALS IN PRIOR 48 HRS.

8/14/18 Con't...

0855 @ GP21-09

CAN ID * # 10823 - FC # 10074

0907 -3" Hg Held in Trane

* Apply He to Pro-Case

0911 He in Pro-Case @ 72.4%

0913 He in Trane @ 0 ppm

0914 Begin Purge; Valve on

SGP "opened"

Purge @ 200 mL/min for 2.25 min

0919 He @ 84%

- Take Pre-Sample Readings.

0925 He in Trane @ 0 ppm

↳ (0926) SVA-38443-081418-GL-001

BP @ 29.28 "Hg

0946 Summa Gauge @ -19½ "Hg

1004 Summa Gauge @ -10" Hg.

1025 Can @ -5" Hg; He in PC @ 98.9%

Post Sample:	CH_4	LEL	O_2	CO_2	H_2S	VOC
He in Trane @ ~~98.9%~~	1.7%	34%	0.4%	1.7%	1 ppm	0.0 ppm

CTL 750 ppm

1036 @ GP04-09

* Can # 10027 - FC - 10767

1038 -4" Hg Held in Trane

1039 71.4% He in Pro-Case

8/14/18 Con't...

1039 375 ppm He in Trane

1040 Begin Purge of GP04-09

Set Timer for 4:36 minutes

* SGP opened

1046 He in Trane @ 94.8%

Take Pre-Sample Readings.

1048 He in Trane 1300 ppm.

↳ (1050) SVA-38443-081418-GL-002

BP @ 29.23 mm Hg

1110 Summa Can @ -21" Hg

1148 Summa Can @ -7" Hg

1150 98.4% He in Pro-Case

* 225 ppm in Trane

1156 Can @ -6" Hg; He in PC @ 98.9

Post Sample:	CH_4	LEL	O_2	CO_2	H_2S	VOC
He in Trane @ 225 ppm	0.2%	4%	0.3%	5.2%	0 ppm	0.0 ppm

1203 @ Site Trailer To Decon Sample Tranes & Plexi-Glass Through Ports.

* Alconox wash; DI Rinse; 20 min @ 200°F Bake

1238 @ GP05-09

Can # 11194; FC - 10842

1246 -6" Hg Held in Trane

1247 89.4% He in Trane

8/14/18 Con't...

1248 ~~0~~ ppm He in Trane

1250 Begin 3:15 minute Purge @ 200 mL/min

1253 He in PC @ 89.4%

Take Pre-Sample Readings:

1256 He in Trane @ ~~0~~ ppm

↳ (1257) SVA-38443-081418-GL-003

BP @ 29.22 mm Hg

1322 Summa Can @ -22" Hg

1355 Summa Can @ -6" Hg

1359 Can @ -5" Hg ; He in PC @ 91.6%

Post Sample:	CH_4	LEL	CO_2	O_2	H_2S	VOC
He in Trane @ ~~0~~ ppm	~~0~~%	~~0~~%	8.8%	8.9%	~~0~~ ppm	~~0.0~~ ppm

1411 @ GP03-09

Can = 09941 ; FC - 11440

1415 -4" Hg Held in Trane

1418 87.8% He in Pro Case

1419 275 ppm in Trane

1421 Begin Purge @ 200 mL/min for 2:25 minutes

1425 He in PC @ 91.1% ; He in Trane @ ~~0~~ ppm

Take Pre Sample Readings

1428 He in Trane @ ~~0~~ ppm

↳ (1428) SVA-38443-081418-GL-004

BP @ 29.20 mm Hg

1517 Summa Can @ -5" Hg ; Shut Can @ 1518

He in PC @ 95.8% ; He in Trane @ ~~0~~ ppm

1530 @ Site Trailer To Decon 2 Trane Sets and Plexi-Glass Fittings Alconox ; DI Rinse ; Bake @ 200°F for 20 minutes.

1607 @ GP-26-18

+ Can = 10564 ; FC - 10619

1418 -5½" Hg Held in Trane

1421 - 91.4% He in Pro Case

1422 - 3100 ppm in Trane (< 10% Pass)

1423 Begin Purge of 3/8" Tube (Probe) 0:48 minutes

He in PC @ 96.4% ; He in Trane @ 125 ppm

Take Pre Sample Readings

1428 He in Trane @ ~~0~~ ppm

↳ (1429) SVA-38443-081418-GL-005

BP @ 29.17 mm Hg

1654 Summa Can @ -16" Hg

1709 Summa Can @ -10" Hg

8/14/18 CON'T...

1728 CAN @ -5 "Hg ; He IN PC @ 95.3%

POST SAMPLE:	CH_4	LEL	O_2	CO_2	H_2S	VOC
He IN TRANE @ 0ppm	2.4%	49%	0.4%	9.0%	0 ppm	0.2 ppm

1736 @ GP25-18

* CAN # 10191 ; FC - 11596

1745 -5" Hg HELD IN TRANE

1746 92.9% He IN PRE CASE

1747 1140 ppm He IN TRANE

1747 BEGIN PURGE @ 200 mL/min ;
PURGE TIME 0:53 MINUTES FOR
3/8" TUBE (SV PROBE)
He IN PC @ 96.6%, He IN TRANE @
150 ppm ; OKAY TO SAMPLE
BEGIN PRE SAMPLE READINGS.

1753 He IN TRANE @ 110 ppm

↳ (1753) SVA-38443-081418-GL-006

BP @ 29.18 mm Hg

1815 SUMMA CAN @ -21" Hg

1846 SUMMA CAN @ -10" Hg

1901 SUMMA CAN @ -6½" Hg

1907 CAN @ -6" Hg ; He @ PC 96.8%

POST SAMPLE:	CH_4	LEL	O_2	CO_2	H_2S	VOC
He IN TRANE @ 2700ppm	3.3%	67%	0.3%	3.8%	4 ppm	0.4 ppm

1940 G. LEWIS OFFSITE AFTER
OFF-LOAD.

38443-330 8/15/18

0745 G. LEWIS , C. McLAUGHLIN
ONSITE
* WEATHER : PARTLY CLOUDY, 69°F;
FORECAST PARTLY CLOUDY, 50%
CHANCE OF STORMS.
* ACTIVITIES: CONTINUE SOIL VAPOR
SAMPLING ACTIVITIES.

0750 TGSM + DECON OF ALL
FITTINGS
* LOAD VAN W/ EQUIPMENT

0855 SET UP @ GP 28-18
CAN ID: 10770; FC - 09959
CAN ID: 10685; FC - 10673

0859 APPLIED VACUUM -5 inH Hg
HELD IN TRANE

0902 70.7% He IN TRANE
0903 0 ppm OF He IN TRANE
0905 * BEGIN PURGE
0:42 MIN FOR 3/8" TUBE
He IN PC @ 91.1%; He IN
TRANE @ 1150 PPM; PASS

8/15/18 CONTIN'D

*BEGIN PRE SAMPLE READINGS
BP @ 29.29" Hg

0912 He IN TRANE @ 2500 PPM
0912 OPEN CANS
↳ SVA-38443-081518-GL-007 CAN # 10685
↳ SVA-38443-081518-GL-008
0957 SUMMA CAN @ -6" Hg
SUMMA CAN @ -7" Hg
0959 He IN PC @ 80.4%
He IN TRANE @ 2500 PPM

POST SAMPLE:	CH_4	LEL	O_2	CO_2	H_2S	VOC
	7.5%	>100	0.1%	4.8%	0 PPM	2.2 PPM

He IN TRANE: 2500 PPM

1015 SET UP @ GP 29-18
CAN # 11613; FC # 09882
1023 He HELD IN TRANE @ 1375 PPM
1024 He IN PRO CASE @ 581 PPM
1026 BEGIN PURGE @ 200mL/min
FOR 36 SECONDS
3/8" TUBE (SV PROBE)
He IN PC 92.5%; He IN TRANE 0%
OK TO SAMPLE
0 PPM IN TRANE
1031 BEGIN TO SAMPLE
↳ SVA-38443-081518-GL-009
BP @ 29.28

OVER →

8/15/18 CONTIN'D

1053 SUMMA CAN @ -20" Hg
1110 SUMMA CAN @ -18" Hg
1134 SUMMA CAN @ -6" Hg
1140 CAN @ -4.5" Hg

POST SAMPLE	CH_4	LEL	O_2	CO_2	H_2S	VOC
	0.1	2%	0.2%	5.0%	Ø PPM	2.3 PPM

He IN PC: 75.4%
He IN TRANE: Ø PPM

* 1147 BACK TO TRAILER TO
DELOW FITTINGS

1207 - CHANGED OUT He TANKS

1237 SET UP @ GP 27-18
CAN # 09974; FC 11290
1249 He HELD IN TRANE @ -5.1" Hg
1250 He IN PC @ 88.8%
1252 He IN TRANE @ 0 PPM
1254 BEGIN TO PURGE @ 200mL/min
FOR 0:30 min
He IN PC 88.7%; He IN TRANE @ 0 PPM
OK TO SAMPLE
1259 BEGIN TO SAMPLE
↳ SVA-38443-081518-GL-010
BP 29.27

→ OVER

08/15/18 CONTN'D

1319 SUMMA CAN @ -20" Hg
1334 SUMMA CAN @ -17" Hg
1349 SUMMA CAN @ -7.5" Hg

* SEAMUS TEDRICK ON SITE FROM 1150 - 1355 TO HELP LOCATE GP 06-09 GP 08-09

1359 CAN @ -5" Hg
He IN ~~TRANE~~ PC 82.2%

POST SAMPLE	CH4	LEL	O2	CO2	H2S	VOC
	0.7%	14%	0.2%	7.7%	Ø	6.5 ppm

He IN TRANE Ø ppm

1411 SETUP @ GP 02-09
CAN ID # 09872; FC 10612
1416 He IN TRANE -6"
1417 He IN PC - 58%
1418 BEGIN PURGE @ 200 mL/min FOR 3:15 3/8" TUBE (SUPPRESS)
1418 He IN TRANE Ø PPM
He IN PC 86.9%; He IN TRANE 1250 PPM
OK TO SAMPLE
1425 BEGIN TO SAMPLE
↳ SVA-38443-081518-GL-011
BP @ 29.26

OVER →

8/15/18 CONTN'D

1452 SUMMA CAN @ -15" Hg
1503 SUMMA CAN @ -11" Hg
1510 SUMMA CAN @ -9" Hg
1519 CAN @ -5" Hg
He IN PC 86.6%; He IN TRANE 3850 PPM

POST SAMPLE:	CH4	LEL	O2	CO2	H2S	VOC
	15.3%	>100%	0.2%	12.9%	3 PPM	Ø PPM

He IN TRANE: 3850 PPM

1529 BACK TO TRAILER TO DECON

1602 SETUP @ GP 11-09
CAN ID # ; FC
1603 He IN TRANE -8" Hg
1604 He IN PC - 56.4% * CAN BEGINNING
1605 BEGIN PURGE @ 200 mL/min FOR 3:37 min 3/8" TUBE (SUPPRESS)
He IN TRANE
He IN PC 82.9%; He IN TRANE 75 PPM
OK TO SAMPLE
1615 BEGIN TO SAMPLE
↳ SVA-38443-081518-GL-012
BP @ 29.28
1653 SUMMA CAN @ 25" Hg
1705 SUMMA CAN @ 20" Hg
1729 SUMMA CAN @ 11" Hg

OVER →

8/15/18 CONTIND

*GEM 2000 SHOWING RESTRICTED FLOW

1758 CAN @ -5" Hg

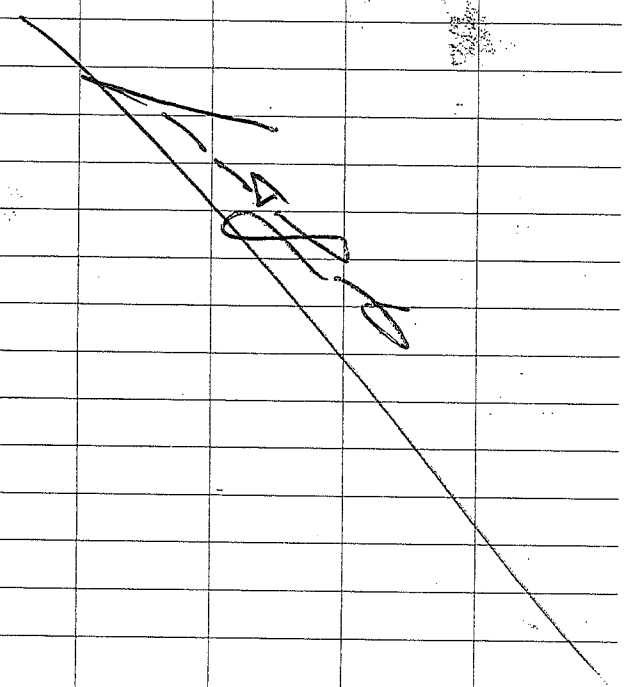
POST SAMPLE:	/HW	LEL	O2	CO2	H2S	VOC
	Ø	Ø	12.0%	7.3%	Ø	Ø ppm

He IN PC 82.1%

He IN TRANE Ø ppm

1810 HEAD TO TRAILER TO DECON & PUT AWAY EQUIP.

1830 OFFSITE



038443-330 8/20/18

0900 S. TEDRICK, G. LEWIS ONSITE

* TGSM; Ø" RAIN PAST 24 hrs.

WEATHER: MOSTLY CLOUDY

ACTIVITIES: CONTINUE SOIL VAPOR SAMPLING

0910 EQUIP. CALIBRATIONS; ISO FORM D

0935 MOB TO MEGA-CITY

0937 @ GP-12-09

CAN # 11303; FC - 11010

0940 He IN PRO-CASE @ 62.7%

0942 * He IN TRANE @ 200 ppm

0943 BEGIN PURGE @ 200 mL/min FOR 2:57 MINUTES

0947 He IN PC @ 50.2%; He IN TRANE @ 25 ppm

* OK TO SAMPLE; TAKE PRE-SAMPLE READINGS

→ (0952) SVA-38443-082018-GC-013

0952 * BP @ 29.24 mm/Hg

1025 SUMMA CAN @ -13" Hg

1042 SUMMA CAN @ -7" Hg

1050 He IN PC @ 97.9%; CAN @ -5"

POST SAMPLE:	O2	CO2	CH4	LEL	H2S	VOC
He IN TRANE @ 950 ppm	19.3%	0.9%	0.1%	3%	Ø ppm	Ø ppm

8/20/18 CON'T...

1100 @ GP 13-09

CAN ID #: 11677 ; FC-10083

1104 He IN PRO CASE @ 60.8% ;
He IN TRANE @ 3200 ppm

1107 -5" Hg HELD IN TRANE

1108 BEGIN PURGING PROBE
@ 200 ml/min FOR 2:55
MINUTES

1112 He IN PC @ 94.5% ; He IN
TRANE @ 0 ppm

1112 GOOD TO SAMPLE ; TAKE
PRE-SAMPLE READINGS

(1115) → SVA-38443-082018-GL-014
BP @ 29.19 mm/Hg

1140 SUMMA CAN @ -19" Hg

1201 SUMMA CAN @ -9" Hg

1215 He IN PC @ 98.6%

1217 SUMMA CAN @ -5" Hg

POST SAMPLE:	CH_4	LEL	CO_2	O_2	H_2S	VOC
He IN TRANE @ 0 ppm	0%	0%	14.6%	0.1%	0 ppm	0.3 ppm

1225 @ SITE TRAILER TO DECON
FITTINGS

* ALCANOX DI RINSE, BAKE @ 200°F
FOR 25 MINS

8/20/18 CON'T...

1302 @ GP 14-09

CAN ID # 09770 ; FC-10253

DUPLICATE SAMPLE ; 10238 ; FC-10024

1309 He IN PRO-CASE @ 93.3% ;
He IN TRANE @ 75 ppm

1311 TRANE HOLDING @ -5" Hg

1312 BEGIN PURGING @ 200 mL/min
FOR 2:44 MINUTES

1316 He IN PC @ 81.6% ; He IN TRANE
@ 150 ppm ; GOOD TO SAMPLE

* TAKE PRE-SAMPLE READINGS

→ (1321) SVA-38443-082018-GL-015
SVA-38443-082018-GL-016

1320 He IN PC @ 89.9% ; He IN TRANE
125 ppm ; BP @ 29.14 mmHg

1348 SUMMA CANISTERS @ -17" Hg & -15" Hg

1415 SUMMA CANISTERS @ -7" Hg & -6½" Hg

1421 CLOSE CANISTERS ; He IN PC @ 75.1%

POST SAMPLE:	CH_4	LEL	CO_2	O_2	H_2S	VOC
He IN TRANE @ 225 ppm	0%	0%	3.4%	15.6%	0 ppm	0.4 ppm

-5" Hg SAMPLE - 015 ; CAN # 09770
-6" Hg SAMPLE - 016 ; CAN # 10238

8/20/18 CONT'D

1434 @ GP15-09

CAN ID# 11014; FC-09567

1442 He IN PRO-CASE @ 75%

He IN TRANE @ 0 ppm

1443 TRANE HELD -5" Hg

1444 BEGIN PURGE @ 200 mL/min

FOR 3:42 MINUTES

1448 He IN PC @ 90.3%; He IN

TRANE @ 0 ppm

1449 TAKE PRE-SAMPLE READINGS

(1451) SVA-38443-082018-GL-017

BP @ 29.09 mm Hg

1518 SUMMA CANISTER @ -16" Hg

1545 SUMMA CAN @ -6" Hg

* RAIN SYSTEM ALMOST OVER SITE

1550 He IN PC @ 91.3%; CLOSE CANISTER

POST SAMPLE:	CH_4	LEL	CO_2	O_2	H_2S	VOC
He IN TRANE @ 0 ppm	0%	0%	6.4%	13.6%	0 ppm	1.4 ppm

1557 PACK-UP @ PROBE TO GO DECON FITTINGS.

1625 OFFSITE

038443-330 8/21/18

0920 G. LEWIS; S. TEDRICK ONSITE

TGSM + PUT DECON'D FITTINGS TOGETHER.

WEATHER: PTLY CLDY; FORECAST SHOWERS & MSTLY CLOUDY

ACTIVITIES: ONCE 0.3" RAIN OVERNIGHT: EMPTY GAUGE & CONTAINER w/ SUMMA CANISTER SAMPLING

0925 EQUIP. CALIBRATIONS / ISC FORM D STD.

0955 SET-UP @ GP08-09

13' DEEP PROBE FOUND 8/15/18

CAN ID # ; FC-

* HAVE TO WALK EQUIP. TO PROBE

1007 He IN PRO-CASE @ 67.7%;

He IN TRANE @ 0 ppm

1008 TRANE HOLDS -6" VACUUME

1009 BEGIN PURGING PROBE @ 200 mL/min

FOR 4:36 MINUTES

1011 PERSONAL SAMPLING PUMP CREATED A VACUUME IN TRANE @ 1:37 IN PURGE TIME

* ATTEMPT MULTIRAE; NO FLOW

* ATTEMPT GEM 2000; NO FLOW

1018 AFTER SEVERAL ATTEMPTS TO PURGE PROBE; SAMPLING EFFORTS WERE

8/21/18 CON'T...

DISCONTINUED

* PACK-UP TO MOVE TO GP-07-18

1041 @ GP07-18

CAN ID # 09673 ; FC-10925

1048 TEST TRANE VAC; HOLDING -6" Hg

1050 BEGIN He TEST OF CONTAINMENT OVER FLUSH MOUNT

1054 He IN CONTAINMENT @ 74.8% ; He IN TRANE @ 225 ppm

1055 BEGIN PURGING 3/8" SOIL VAPOR PROBE @ 200 mL/min FOR 0:38 MINUTES

1057 He IN TRANE @ 0 ppm ; He IN CONTAINMENT @ 88.6%

1058 TAKE PRE-SAMPLE READINGS

→ (1101) SVA-38443-082118-GL-018

1125 SUMMA CANISTER @ -16" Hg

1150 SUMMA CANISTER @ -6" Hg

1155 99.1% He IN CONTAINMENT

-5" Hg IN SUMMA (CLOSE CAN)

	CH_4	LEL	O_2	CO_2	H_2S	VOC
POST SAMPLE:	58.3%	>100%	0%	14.5%	5 ppm	279 ppm

He IN TRANE 0 ppm

8/21/18 CON'T...

1209 SET-UP @ GP06-09

1211 TEST VAC. IN TRANE -5" HOLDS FOR 35 SEC. BEFORE LIGHT DROP IN Hg

1217 @ 54.8% He IN CANISTER; 0 ppm IN TRANE

1218 BEGIN PURGE @ 200 mL/min FOR 2:59 MINUTES

CAN ID # 09605 ; FC-09895

1221 He IN PC @ 90.2% ; He IN TRANE @ 0

1222 TAKE PRE-SAMPLE READINGS

→ (1223) SVA-38443-082118-GL-019

BP @ 29.03 mm Hg

1248 SUMMA CANISTER @ -17" Hg

** 1311 CT. RAIN BEGINNING.

1313 SUMMA CAN @ -8½" Hg

* RAIN STOPPED

1324 SUMMA CAN @ -6" Hg ; SHUT OFF CAN ; He IN PC @ 90.2%

POST SAMPLE:	CH_4	LEL	CO_2	O_2	H_2S	VOC
He IN TRANE @ 0 ppm	0%	0%	4.6%	14.9%	0 ppm	0.0 ppm

1341 @ SITE TRAILER TO DECON FITTINGS

8/21/18 CON'T...

1351 HEAVY RAIN IN AREA

1420 ~ 0.2" OF RAIN FELL IN ~ 30 MINUTES

* RAIN HAS STOPPED AT THIS TIME

** 1422 SET-UP @ GP10-09

CAN # ; FC -

1432 -6" Hg HELD IN TRANE

- OPEN VALVE ON PROBE TO TEST HELIUM IN TRANE & ~~PRO-CASE~~ CONTAINMENT

1436 59.9% He IN CONTAINME; 0 ppm IN TRANE

* BEGIN PURGE @ 200 mL/MIN FOR 5:37 MINUTES.

1443 He IN CONTAINMENT @ 95.2%; He IN TRANE @ 0 ppm

* GOOD TO TAKE PRE-SAMPLE READING

↳ (1445) SVA-38443-082118-GL-020

BP @ 29.04 mmHg

1511 SUMMA CANISTER @ -16" Hg

1535 SUMMA CAN -5" Hg; SHUT OFF CAN; He IN CONTAINMENT 78.7%

POST SAMPLE:	CH_4	LEL	CO_2	O_2	H_2S	VOC
He IN TRANE @ 0 ppm	0.0%	0%	2.8%	0.5%	0 ppm	0.0 ppm

8/21/18 CON'T...

1550 SET-UP @ GP09-09

CAN ID # 09546 ; FC-11439

1555 SWITCH-OUT HELIUM CANISTERS

* NOT ENOUGH FLOW TO ACHIEVE >50%; VAC HELD @ -6" Hg

1559 He IN CONTAINMENT 59.6%; He IN TRANE

1600 BEGIN PURGING PROBE @ 200 mL/MIN FOR 2:14 MINUTES

1602 He IN CONTAINMENT 94.7%; He IN TRANE @ 0 ppm

* GOOD FOR PRE-SAMPLE READINGS:

↳ (1605) SVA-38443-082118-GL-021

1632 SUMMA CANISTER @ -18" Hg

1655 SUMM CANISTER @ -8" Hg

1710 CAN @ -5½"; He IN CONTAIN. @ 55.7%

POST SAMPLE:	CH_4	LEL	CO_2	O_2	H_2S	VOC
He IN TRANE @ 0 ppm	0.0%	0	8.3%	11.2%	0 ppm	0.0 ppm

1713 CLEAN-UP @ BARNETT PROPERTY TO FINISH-OUT TODAY

1745 LEAVE SITE

38443-330 8/22/18

0700 G. LEWIS, S. TEDRICK ONSITE
TGSM; SITE RAIN GAUGE @ 0.2"
WEATHER: CLEAR, 63°F; FORECAST
SUNNY, 75°F
ACTIVITIES: CONTINUE SOIL VAPOR
SAMPLING
* EMPTY RAIN GAUGE
0715 EQUIP. CALIBRATIONS PER
150 FORM D STANDARDS
0730 LOAD EQUIPMENT TO BEGIN
SAMPLING.
0734 @ GP 34-18
CAN ID 11533; 10899-FC

0735 TRANE HOLDING -6" Hg VACUUME
0736 He IN CONTAINMENT @ 69.7%;
He IN TRANE @ 0 ppm
0737 BEGIN PURGING PROBE @ 200 ml/min
FOR 0.31 MINUTES
0740 He IN CONTAINMENT @ 60.7%;
He IN TRAIN @ 0 ppm
* TAKE PRE-SAMPLE READINGS
→ (0743) SVA-38443-082218-GL-022
BP @ 29.26 mmHg

8/22/18 CON'T...

0813 SUMMA CANISTER @ -17" Hg
0829 SUMMA CANISTER @ -10" Hg
0841 He IN CONTAINMENT @ 87.7%
0846 SUMMA CAN @ -5½" Hg; TURN OFF

POST SAMPLE:	CH_4	LEL	CO_2	O_2	H_2S	VOC
He IN TRANE @ 0 ppm	0%	0%	11.0%	6.8%	0 ppm	0.0 ppm

0856 SET-UP @ GP 24B-09
CAN ID # 10527; FC-11113
0903 TRANE HOLDS -7" Hg
0906 He IN CONTAINMENT @ 56.6%;
He IN TRANE @ 0 ppm
0907 BEGIN PURGE @ 200 ml/min
FOR 5:57 (ONLY BOREHOLE
LOG FOR 24 SHOWS 20' DEEP;
BOTH PROBES WILL BE PURGED FOR
THIS AMOUNT OF TIME)
0914 He IN CONTAINMENT @ 54.4%;
He IN TRANE @ 0 ppm
* TAKE PRE-SAMPLE READINGS
→ (0917) SVA-38443-082218-GL-023
BP @ 29.28 mmHg
0939 SUMMA CANISTER @ -18" Hg
1003 SUMMA CANISTER @ -9" Hg
1013 He IN CONTAINMENT @ 73.4%

8/22/18 CONT...

1013 SUMMA CANISTER @ -5" Hg; SHUT-OFF

POST SAMPLE:	CH_4	LEL	CO_2	O_2	H_2S	VOC
He in TRANE @ 0 ppm	0 %	0 %	7.3%	11.5%	0 ppm	0.0 ppm

1019 @ SITE TRAILER TO DECON FITTINGS.

1055 @ GP24A-09

CAN ID #11302; FC-11516

1103 -7" Hg HELD IN TRANE

1106 68% He IN CONTAINMENT; 1925 ppm IN TRANE; PASS <10% He.

1110 BEGIN PURGING PROBE @ 200 ml/min FOR 5:57 MINUTES (UNKNOWN DEPTH OF PROBE A/B)

1116 He IN CONTAINMENT @ 61.1%; He IN TRANE 0 ppm

* GOOD TO TAKE PRE-SAMPLE READINGS

→ (1118) SVA-38443-082218-GL-024

BP @ 29.29 mm Hg

1144 SUMMA CANISTER @ -15" Hg

1203 SUMMA CANISTER @ -7" Hg

1209 SUMMA @ -5" Hg; He IN CONT. @ 78.7%

POST SAMPLE:	CH_4	LEL	CO_2	O_2	H_2S	VOC
He in TRANE @ 0 ppm	0%	0%	11.9%	5.8%	0 ppm	0.0 ppm

8/22/18 CONT...

1220 SET-UP @ GP23-13

CAN ID # 10187; FC-10317

1225 TRANE HOLDING -7" Hg

1227 He IN CONTAINMENT 53.6%; He IN TRANE @ 0 ppm

* OPEN SOIL VAPOR VALVE

1228 BEGIN PURGING PROBE @ 200 ml/min FOR 5:31 MINUTES

1235 He IN CONTAINMENT @ 78.6%; He IN TRANE @ 0 ppm

* GOOD TO TAKE PRE-SAMPLE READINGS

→ (1237) SVA-38443-082218-GL-025

BP @ 29.28 mm Hg

1303 SUMMA CANISTER @ -16" Hg

1325 SUMMA CANISTER @ -9" Hg

1339 He IN CANISTER @ 57.5%; -5" Hg; CAN OFF.

POST SAMPLE:	CH_4	LEL	CO_2	O_2	H_2S	VOC
He in TRANE @ 0 ppm	0.0%	0%	6.8%	9.7%	0 ppm	0.0 ppm

1352 @ SITE TRAILER TO DECON TRANE FITTINGS

1420 @ GP31-18

CAN ID #11274; FC-09883

1428 He IN CONTAINMENT @ 51.7%; He IN TRANE @ 0 ppm

8/22/18 CON'T...

1429 VACUUME OF -6" Hg HELD IN TRANE

* OPEN VALVE & SEAL CONTAINMENT TO GROUND

1433 BEGIN PURGING SOIL PROBE @ 200 ML/MIN

1435 He IN CONTAINMENT @ 96.4%; He IN TRANE @ ~~0~~ ppm

* OKAY TO TAKE PRE-SAMPLE READINGS

↳ (1438) SVA-38443-082218-GL-026

BP @ 29.24 mm Hg

1505 SUMMA CANISTER @ -15 Hg

1522 SUMMA CANISTER @ -9 Hg

1534 He IN CONTAINMENT @ 56.4%

1536 CLOSE SUMMA CAN @ -5" Hg

POST SAMPLE:	CH_4	LEL	CO_2	O_2	H_2S	VOC
He IN TRANE ~~@ 0~~ ppm	~~0.0%~~	~~0%~~	2.5%	17.9%	~~0%~~	1.7 ppm

1545 SET-UP @ GP 30-18

CAN ID # 10043 ; FC-10956

1551 TRANE HOLDING VAC @ -7" Hg

1552 He IN PRO-CASE @ 55.7%; He IN TRANE @ ~~0~~ ppm

* OPEN VALVE ON PROBE (3/8")

8/22/18 CON'T...

1553 BEGIN PURGING @ 200 ml/min FOR 0:41 MINUTES

1555 He IN PC IS 64.3%; He IN TRANE @ 1300 ppm

* GOOD TO TAKE PRE-SAMPLE READINGS

↳ (1557) SVA-38443-082218-GL-027

BP @ 29.24 mm Hg

1628 SUMMA CANISTER @ -16" Hg

1650 SUMMA CANISTER @ -7½" Hg

1700 CLOSE SUMMA CAN @ -5" Hg; He IN PC @ 72.4%

POST SAMPLE:	CH_4	LEL	CO_2	O_2	H_2S	VOC
He IN TRANE @ 3275 ppm	~~0.0%~~	~~0%~~	~~0.0%~~	4.3%	~~0~~ ppm	0.3 ppm

1703 CLEAN-UP EQUIP. @ GP 30-18.

1730 OFFSITE

038443-330 8/23/18

0715 G. LEWIS ONSITE
* S. TEDRICK ALREADY ONSITE & RE-ASSEMBLED ALL FITTINGS
* TGSM w/ DRILLERS
* CALIBRATE EQUIP. PER ISO FORM D STANDARDS.

0745 BEGIN SET-UP @ GP16-09
CAN ID # 10100 ; FC-09957
0757 -6½" Hg HELD IN TRANE
* OPEN VALVE TO TEST He IN PROCASE
0800 - He IN PC @ 59.9% ; 0 ppm IN TRANE
0802 BEGIN PURGING PROBE @ 200 ML/MIN FOR 3:01 MINUTES
0805 He IN PC @ 95.7% ; He IN TRANE @ 0 ppm
* GOOD TO TAKE PRE-SAMPLE READ.

→ (0808) SVA-38443-082318-GL-028
BP @ 29.41 mm Hg
0831 SUMMA CANISTER @ -16½" Hg
0857 SUMMA CAN @ -7" Hg

8/23/18 CON'T...

0902 SUMMA @ -5" Hg (CLOSE CAN) ; He IN PC @ 87.6%

POST SAMPLE:	CH_4	LEL	CO_2	O_2	H_2S	VOC
He IN TRANE @ 0 ppm	0.7%	14%	10.3%	1.1%	0 ppm	0.2 ppm

0913 SET-UP @ GP33-18
CAN ID # 10093 ; FC-11905
0916 -7" Hg HELD IN TRANE
0917 86.7% IN PRO-CASE ; 0 ppm IN TRANE.
0918 BEGIN PURGING GAS PROBE (3/8") @ 200 ML/MIN FOR 0:54 MINUTES
0920 He IN PC @ 72.8% ; He IN TRANE @
* OKAY TO TAKE PRE-SAMPLE READING
→ (0922) SVA-38443-082318-GL-029
0950 SUMMA CANISTER @ -19" Hg
1030 He IN PROCASE @ 77.4% ; CAN @ -5" Hg ; TURN-OFF CAN

POST SAMPLE:	CH_4	LEL	CO_2	O_2	H_2S	VOC
He IN TRANE @ 0 ppm	0.0%	0%	11.1%	3.3%	0 ppm	0.0 ppm

1033 PACK-UP TO DECON SAMPLE TRANES.
1042 @ TRAILER ; ALCANOX BATH, DI WATER RINSE, 200°F FOR 20 MINUTE BAKE.

8/23/18 Con't...

1113 @ GP 20-18

Can ID # 11696 ; FC - 10931

1117 -7" Hg Held in Sample Trane

* Open Valve & Cap Pro-Case To Do Helium Check.

1119 He in Pro-Case @ 77.7% ; He in Trane @ 0 ppm

1120 Begin Purging Probe (3/8") for 0:42 minutes @ 200 mL/min.

1122 He in PC @ 72.1% ; He in Trane @ 0 ppm.

* Take Pre-Sample Readings

↳ (1125) SVA-38443-082318-GL-030

BP @ 29.40 mm Hg

1148 Summa Canister @ -18" Hg

1208 Summa Canister @ -9" Hg

1221 He in PC @ 97.4%; Summa Can @ -5" Hg

Post Sample:	CH_4	LEL	CO_2	O_2	H_2S	VOC
He in Trane @ 0 ppm	0.0%	0%	10.0%	2.4%	0 ppm	0.0 ppm

8/23/18 Con't...

1227 Set-up @ GP-22-13

Duplicate Can ID # 10992 ; FC - 10957

Can ID # 10209 ; FC - 10547

1233 -7" Hg Held in Trane; okay To open valve

1236 63.7% He ~~Held~~ GL inside Containment ; 0 ppm in Trane

Begin Purging Probe @ 200 mL/min for 5:59 minutes

1244 87.7% He in Containment; 0 ppm He in Trane

* Good To Take Pre-Sample Readings

↳ (1246) SVA-38443-082318-GL-031 10209

(1246) SVA-38443-082318-GL-032 10992 DUP

BP @ 29.34 mm Hg

* Note * Need To Go To Premier Safety To Get More 1/4" Sample Tubing ; We Have Used ~130' At This Time.

1312 Summa Canisters @ -14" Hg ; -17" Hg

1340 Summa Canisters @ -7" Hg ; -7½" Hg

1347 Both Cans @ -5" Hg ; 74.6% He in Cont.

Post Sample:	CH_4	LEL	CO_2	O_2	H_2S	VOC
He in Trane @ 0 ppm	0.0%	0%	8.5%	0.6%	1 ppm	0.1 ppm

8/23/18 Con't...

1352 Clean-up @ Probe; Need To Decon Sample Fittings.

1445 @ GP19-18

* Will set-up Ambient Summa Canister at this location

Can ID # 10709; FC-10895

→ (1510) SA-38443-082318-GL-033

GP19-18 Can ID # 09690; FC-09565

1501 -7" Hg Held in Trane

1503 Helium in Pro Case @ 73.7%; Helium in Trane 75ppm.

1506 Been Purging Gas Probe @ 200 ml/min for 0:42 minutes

1507 He in PC @ 89.1%; He in Trane @ 0 ppm

* Good To Take Pre-Sample #3

→ (1510) SVA-38443-082318-GL-034

BP @ 29.33 mmHg

1538 Ambient @ -17" Hg

GP19-18 @ -15" Hg

1605 Ambient @ -7" Hg

GP19-18 @ -6" Hg

8/23/18 Con't...

1608 Probe Sample Can @ -5" Hg; Close Can; Helium in PC @ 82.2%

Post Sample:	CH_4	LEL	CO_2	O_2	H_2S	VOC
He in Trane @ 0 ppm	1.8%	36%	10.1%	0.6%	2ppm	0.4ppm

* Ambient Sample still "on"

* 3 Probes Remain To Sample; Clean-up @ GP19-18 To Finish For Today.

1614 Close Ambient Summa Canister @ -5½" Hg

1625 @ Site Trailer; Only 4 Cans Remain (All Need To Be used on 8/24/18)

* Use Can ID # 09938; FC-11786 For Trip Blank Can

** This Can originally had ~ -26½" Hg

→ TB-38443-082318-GL-001

1645 Offsite

38443-330 8/24/18

0700 G. LEWIS, S. TEDRICK ONSITE
* TGSM w/ DRILLING CREW
WEATHER: CLEAR, 58°F; FORECAST SUNNY, 81°F (POSSIBLE AFTERNOON RAIN)
ACTIVITIES: AFTER RE-COUNT OF PROBES, ONLY 2 PROBES REMAIN (GP32-18, GP01-18); DUPLICATE ON LAST PROBE (TOTAL 31)
0715 CALIBRATE EQUIP. / ISO FORM "D".
0742 SET-UP @ GP32-18
CAN ID # 09604; FC-11091
0753 TRANE HOLDING -6" Hg
* TURN-ON VALVE & SEAL PRO CASE.
0755 65.3% HELIUM IN PRO-CASE; 0 ppm IN TRANE
0756 BEGIN PURGING PROBE @ 200 ml/min FOR 0:41 MINUTES
0758 He IN PC @ 66.7%; He IN TRANE @ 0 ppm
* TAKE PRE-SAMPLE READINGS.
→ (0800) SVA-38443-082418-GL-035
BP @ 29.38 mm Hg

8/24/18 CON'T..
0824 SUMMA CANISTER @ -16½" Hg
0847 SUMMA CANISTER @ -7" Hg
* TURN-ON METERS TO TAKE POST SAMPLE READINGS
0854 He IN PC @ 56.3%
0855 CLOSE SUMMA CAN @ -5" Hg

POST SAMPLE:	CH_4	LEL	CO_2	O_2	H_2S	VOC
He IN TRANE @ 0 ppm	0.2%	4%	16.5%	0.4%	0 ppm	0.0 ppm

0909 SET-UP @ GP01-18
CAN ID # 10882; FC - 10766
CAN ID # 10330; FC - 10888
* LAST SAMPLE REQ. DUPLICATE
0912 TRANE HOLDING -6½" Hg
0914 51.7% HELIUM IN PRO-CASE, 1225 ppm IN TRANE
0916 BEGIN PURGING 3/8" SOIL GAS PROBE FOR 0:27 MINUTES
0917 He IN PC @ 83.4%; He IN TRANE @ 775 ppm
* TAKE PRE-SAMPLE READINGS
→ (0919) SVA-38443-082418-GL-036
SVA-38443-082418-GL-037
BP @ 29.37 mm Hg
0944 SUMMA CANS @ -14" Hg & -17" Hg

8/24/18 CON'T.

1009 SUMMA CANISTERS @
-3" Hg & -6½" Hg

1010 CLOSE SUMMA CANISTERS
#10882 IS -036

* 92.6% He IN PRO-CASE;
1775 ppm He IN TRANE

POST SAMPLE:

CH_4	LEL	CO_2	O_2	H_2S	VOC
34.4%	>100%	16.1%	0.5%	1 ppm	0.0 ppm

1025 @ SITE TRAILER TO PACK-UP
ALL SUMMA CANS & FILL-OUT
COC'S

1125 BEGIN "FULL ROUND" OF SOIL
VAPOR PROBE MONITORING.

1630 COULD NOT LOCATE GP07 OR
GP03

LEAVE SITE

Memorandum

July 23, 2018
Revised October 10, 2018
Revised October 29, 2018
Revised October 31, 2018

To:	Julian Hayward	Ref. No.:	038443-330
From:	Nancy Bergstrom/Angela Bown/cs/41-NF	Tel:	773-380-9933
cc:	Angela Bown, Brent Ramdial, Valerie Chan		
Subject:	**Analytical Results and Full Validation Soil Sampling ITW Corporate-South Dayton Dump and Landfill Moraine, Ohio January, July, and August 2018**		

1. Introduction

This document details a validation of analytical results for soil samples collected in support of the Soil Sampling at the ITW-South Dayton Dump and Landfill Site during January, July, and August 2018. Samples were submitted to TestAmerica Laboratories, Inc., located in North Canton, Ohio. A sample collection and analysis summary is presented in Table 1. The validated analytical results are summarized in Table 2A and 2B. A summary of the analytical methodology is presented in Table 3. Geotechnical sample results were given a cursory review and are included in Table 2A and 2B.

Full Contract Laboratory Program (CLP) equivalent raw data deliverables were provided by the laboratory. Evaluation of the data was based on information obtained from the finished data sheets, raw data, chain of custody forms, calibration data, blank data, recovery data from surrogate spikes, laboratory control samples (LCS) and matrix spike (MS) samples. The assessment of analytical and in-house data included checks for: data consistency (by observing comparability of duplicate analyses), adherence to accuracy and precision criteria, and transmittal errors.

The QA/QC criteria by which these data have been assessed are outlined in the analytical methods referenced in Table 3 and applicable guidance from the documents entitled:

i) "Remedial Investigation/Feasibility Study (RI/FS) Work Plan for Operable Units 1 and 2, Appendix E – Quality Assurance Project Plan", September 20, 2017

ii) "USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review", USEPA 540-R-08-01, June 2008

Item ii) will subsequently be referred to as the "Guidelines" in this Memorandum.

2. Sample Holding Time and Preservation

The sample holding time criteria for the analyses are summarized in Table 3. Sample chain of custody documents and analytical reports were used to determine sample holding times. All samples were prepared and analyzed within the required holding times.

All samples were properly preserved, delivered on ice, and stored by the laboratory at the required temperature (0-6°C).

3. Gas Chromatography/Mass Spectrometer (GC/MS) – Tuning and Mass Calibration (Instrument Performance Check) and Inductively Coupled Plasma/Mass Spectrometer (ICP/MS)

Prior to volatile organic compound (VOC), the GC/MS instrumentation is tuned to ensure optimization over the mass range of interest. To evaluate instrument tuning, the method requires the analysis of the specific tuning compound bromofluorobenzene (BFB). The resulting spectra must meet the criteria cited in the method before analysis is initiated. Analysis of the tuning compound must then be repeated every 12 hours throughout sample analysis to ensure the continued optimization of the instrument.

The tuning compound was analyzed at the required frequency throughout the VOC analysis periods. All tuning criteria were met indicating that proper optimization of the instrumentation was achieved.

4. Initial Calibration - Organic Analyses

To quantify VOCs of interest in samples, calibration of the GC/MS over a specific concentration range must be performed. Initially, a five-point calibration curve containing all compounds of interest is analyzed to characterize instrument response for each analyte over a specific concentration range. Linearity of the calibration curve and instrument sensitivity are evaluated against the following criteria:

i) All relative response factors (RRFs) must be greater than or equal to 0.050 (greater than or equal to 0.010 for compounds that exhibit poor response)

ii) The percent relative standard deviation (%RSD) values must not exceed 20.0 percent (40.0 percent for compounds that exhibit poor response) or a minimum correlation coefficient (R) or 0.995 or minimum coefficient of determination (R^2) of 0.99 if linear and quadratic equation calibration curves are used

The initial calibration data for VOCs were reviewed. All compounds met the above criteria for sensitivity and linearity.

5. Continuing Calibration - Organic Analyses

To ensure that instrument calibration for VOC analyses is acceptable throughout the sample analysis period, continuing calibration standards must be analyzed and compared to the initial calibration curve every 12 hours.

The following criteria were employed to evaluate continuing calibration data:

i) All RRF values must be greater than or equal to 0.050 (greater than or equal to 0.010 for compounds that exhibit poor response)

ii) Percent difference (%D) values must not exceed 25.0 percent (40.0 percent for compounds that exhibit poor response)

Calibration standards were analyzed at the required frequency, and the results met the above criteria for instrument sensitivity and stability with the exception of the sample results presented with qualifiers in Table 4.

6. Laboratory Blank Analyses

Method blanks are prepared from a purified matrix and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the analytical procedures.

For this study, laboratory method blanks were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

Most method blank results were non-detect. Table 5 presents the sample results that were qualified as non-detect due to analyte concentrations in the method blanks.

7. Surrogate Spike Recoveries

In accordance with the methods employed, all samples, blanks, and QC samples analyzed for organics are spiked with surrogate compounds prior to sample analysis. Surrogate recoveries provide a means to evaluate the effects of laboratory performance on individual sample matrices.

All samples submitted for VOC determinations were spiked with the appropriate number of surrogate compounds prior to sample analysis.

Surrogate recoveries were assessed against laboratory control limits. Due to dilutions equal to or greater than 5 times that were necessary to successfully analyze the samples, several surrogate recoveries in investigative samples analyzed for VOCs were not assessed. Most remaining surrogate recoveries were within the laboratory criteria. Table 6 presents the sample results that were qualified due to outlying surrogate recoveries.

8. Internal Standards (IS) Analyses

IS data were evaluated for all VOC sample analyses.

To ensure that changes in the GC/MS sensitivity and response do not affect sample analysis results IS compounds are added to each sample prior to analysis. All results are then calculated as a ratio of the IS responses.

The sample IS results were evaluated against the following criteria:

i) The retention time of the IS must not vary more than ±30 seconds from the associated calibration standard.

ii) IS area counts must not vary by more than a factor of two (-50 percent to +100 percent) from the associated calibration standard.

All VOC IS recoveries and retention times met the above criteria.

9. Laboratory Control Sample (LCS) Analyses

LCS are prepared and analyzed as samples to assess the analytical efficiencies of the methods employed, independent of sample matrix effects.

For this study, LCS were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

The LCS contained all compounds of interest. Where LCS recoveries were above the control limits, non-detect sample results were not impacted by the implied high bias and were not qualified. Table 7 presents the qualified sample results due to outlying LCS results. All remaining LCS recoveries were within the laboratory control limits demonstrating acceptable analytical accuracy.

10. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analyses

To evaluate the effects of sample matrices on the preparation process, measurement procedures, and accuracy of a particular analysis, samples are spiked with a known concentration of the analyte of concern and analyzed as MS/MSD samples. The RPD between the MS and MSD is used to assess analytical precision.

MS/MSD analyses were performed as specified in Table 1.

All percent recoveries and RPD values were within the laboratory control limits demonstrating acceptable analytical accuracy and precision with the exception of the VOC sample result presented with a qualifier in Table 8.

11. Analyte Reporting

The laboratory reported detected results down to the laboratory's method detection limit (MDL) for each analyte adjusted for specific sample dilutions, weights, and volumes. Positive analyte detections less than the RL but greater than the sample-specific MDL were qualified as estimated (J) in Table 2A and 2B unless qualified otherwise in this memorandum. Non-detect results were presented as non-detect at the sample specific MDL in Table 2A and 2B.

All soil results were reported on a dry weight basis.

12. Target Compound Identification

To minimize erroneous compound identification during organic analyses, qualitative criteria including compound retention time and mass spectra were evaluated according to the identification criteria established by the methods. The organic compounds reported adhered to the specified identification criteria.

13. Conclusion

Based on the assessment detailed in the foregoing, the data summarized in Table 2A and 2B are acceptable with the specific qualifications noted herein.

Table 1

Sample Collection and Analysis Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January, July, and August 2018

							Analysis/Parameters			
Sample Identification	**Location**	**Matrix**	**Initial Sample Depth (ft. bgs.)**	**Final Sample Depth (ft. bgs.)**	**Collection Date (mm/dd/yyyy)**	**Collection Time (hr:min)**	**VOC**	**FOC**	**Grain Size**	**Comments**
TA-NC SDG No.: 240-90238-1										
S-38443-011018-JC-037	GP32-18	Soil	10	11	01/10/2018	09:50	X	X	X	
TA-NC SDG No.: 240-90510-1										
S-38443-011718-JC-049	GP30-18	Soil	10.5	11.5	01/17/2018	14:35	X	X	X	
TA-NC SDG No.: 240-90612-1										
S-38443-011918-JC-056	GP31-18	Soil	8	9	01/19/2018	13:45	X	X	X	
TA-NC SDG No.: 240-90658-2										
S-38443-012218-JC-058	GP33-18	Soil	17.5	18.5	01/22/2018	10:43	X	X	X	
S-38443-012218-JC-060	GP20-18	Soil	11	12	01/22/2018	14:48	X	X	X	
TA-NC SDG No.: 240-90781-1										
S-38443-012418-JC-063	GP19-18	Soil	11	12	01/24/2018	11:20	X	X	X	
TA-NC SDG No.: 240-90825-1										
S-38443-012518-JC-064	GP01-18	Soil	5.5	6.5	01/25/2018	14:30	X	X	X	

Table 1

Sample Collection and Analysis Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January, July, and August 2018

Sample Identification	Location	Matrix	Initial Sample Depth (ft. bgs.)	Final Sample Depth (ft. bgs.)	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters: VOC	FOC	Grain Size	Comments
TA-NC SDG No.: 240-90945-1										
S-38443-012918-JC-065	GP26-18	Soil	13.5	14.5	01/29/2018	14:00	X	X	X	
S-38443-012918-JC-066	GP25-18	Soil	15	16	01/29/2018	14:33	X	X	X	
TA-NC SDG No.: 240-90944-1										
S-38443-013018-JC-067	GP27-18	Soil	7	8	01/30/2018	10:45	X	X	X	MS/MSD
S-38443-013018-JC-068	GP28-18	Soil	15	16	01/30/2018	14:00	X	X	X	
S-38443-013018-JC-069	GP29-18	Soil	9	10	01/30/2018	15:05	X	X	X	
TA-NC SDG No.: 240-99265-1										
SO-38443-073118-JC-120	GP34-18	Soil	10	11	07/31/2018	14:00	X		X	
TA-NC SDG No.: 240-99328-1										
SO-38443-080118-JC-121	GP07-18	Soil	12	13	08/01/2018	09:30	X		X	

Notes:

ft. bgs. - Feet below ground surface
TA-NC - TestAmerica Laboratories, Inc. - North Canton, Ohio
SDG - Sample Delivery Group
MS/MSD - Matrix Spike/Matrix Spike Duplicate
VOC - Volatile Organic Compounds
FOC - Fractional Organic Carbon

Table 2A

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January, July, and August 2018

Location ID:		**GP01-18**	**GP25-18**	**GP19-18**	**GP20-18**
Sample Name:		**S-38443-012518-JC-064**	**S-38443-012918-JC-066**	**S-38443-012418-JC-063**	**S-38443-012218-JC-060**
Sample Date:		**01/25/2018**	**01/29/2018**	**01/24/2018**	**01/22/2018**
Depth:		**5.5-6.5 ft bgs**	**15-16 ft bgs**	**11-12 ft bgs**	**11-12 ft bgs**
Parameters	**Unit**				
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/kg	530 U	53 UJ	0.37 U	0.21 U
1,1,2,2-Tetrachloroethane	µg/kg	460 U	45 UJ	0.42 U	0.24 U
1,1,2-Trichloroethane	µg/kg	440 U	43 UJ	0.64 U	0.36 U
1,1-Dichloroethane	µg/kg	590 U	58 UJ	0.54 U	0.30 U
1,1-Dichloroethene	µg/kg	680 U	68 UJ	0.88 U	0.50 U
1,2,4-Trichlorobenzene	µg/kg	490 U	49 UJ	0.39 U	0.22 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	910 U	90 UJ	1.1 U	0.63 U
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	440 U	43 UJ	0.57 U	0.32 U
1,2-Dichlorobenzene	µg/kg	340 U	34 UJ	0.36 U	0.20 U
1,2-Dichloroethane	µg/kg	570 U	56 UJ	0.47 U	0.27 U
1,2-Dichloropropane	µg/kg	570 U	56 UJ	0.50 U	0.28 U
1,3-Dichlorobenzene	µg/kg	720 U	71 UJ	0.47 U	0.27 U
1,4-Dichlorobenzene	µg/kg	510 U	51 UJ	0.57 U	0.32 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	950 U	94 UJ	2.1 U	1.2 U
2-Hexanone	µg/kg	1600 U	160 UJ	0.94 U	0.53 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	760 U	75 UJ	1.4 U	0.82 U
Acetone	µg/kg	1800 U	180 UJ	20 U	2.8 U
Benzene	µg/kg	460 U	45 UJ	0.52 U	0.29 U
Bromodichloromethane	µg/kg	340 U	34 UJ	0.54 U	0.30 U
Bromoform	µg/kg	440 U	43 UJ	0.65 U	0.37 U
Bromomethane (Methyl bromide)	µg/kg	530 U	53 UJ	0.96 U	0.54 U
Carbon disulfide	µg/kg	340 U	34 UJ	1.3 J	0.19 U
Carbon tetrachloride	µg/kg	510 U	51 UJ	0.41 U	0.23 U
Chlorobenzene	µg/kg	100000	2000 J	0.54 U	0.30 U
Chloroethane	µg/kg	530 U	53 UJ	0.62 U	0.35 U
Chloroform (Trichloromethane)	µg/kg	460 U	45 UJ	0.37 U	0.21 U
Chloromethane (Methyl chloride)	µg/kg	340 U	34 UJ	0.62 U	0.35 U

Table 2A

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January, July, and August 2018

	Location ID:	**GP01-18**	**GP25-18**	**GP19-18**	**GP20-18**
	Sample Name:	**S-38443-012518-JC-064**	**S-38443-012918-JC-066**	**S-38443-012418-JC-063**	**S-38443-012218-JC-060**
	Sample Date:	**01/25/2018**	**01/29/2018**	**01/24/2018**	**01/22/2018**
	Depth:	**5.5-6.5 ft bgs**	**15-16 ft bgs**	**11-12 ft bgs**	**11-12 ft bgs**
Parameters	**Unit**				
Volatile Organic Compounds					
cis-1,2-Dichloroethene	µg/kg	670 U	66 UJ	17	1.8 J
cis-1,3-Dichloropropene	µg/kg	440 U	43 UJ	0.42 U	0.24 U
Cyclohexane	µg/kg	570 U	56 UJ	0.34 U	0.19 U
Dibromochloromethane	µg/kg	650 U	64 UJ	0.49 U	0.28 U
Dichlorodifluoromethane (CFC-12)	µg/kg	420 U	41 UJ	0.57 U	0.32 U
Ethylbenzene	µg/kg	670 U	66 UJ	0.44 U	0.25 U
Isopropyl benzene	µg/kg	650 U	64 UJ	0.33 U	0.18 U
Methyl acetate	µg/kg	1400 U	140 UJ	1.9 U	1.1 U
Methyl cyclohexane	µg/kg	700 UJ	69 UJ	2.3 J	0.21 U
Methyl tert butyl ether (MTBE)	µg/kg	490 U	49 UJ	0.44 U	0.25 U
Methylene chloride	µg/kg	2500 U	150 UJ	9.7 U	5.0 U
Styrene	µg/kg	190 U	19 UJ	0.44 U	0.25 U
Tetrachloroethene	µg/kg	400 U	39 UJ	0.60 U	0.34 U
Toluene	µg/kg	460 U	45 UJ	3.8 J	0.59 J
trans-1,2-Dichloroethene	µg/kg	670 U	66 UJ	0.62 U	0.35 U
trans-1,3-Dichloropropene	µg/kg	290 U	28 UJ	0.34 U	0.19 U
Trichloroethene	µg/kg	700 U	69 UJ	0.67 U	13
Trichlorofluoromethane (CFC-11)	µg/kg	650 U	64 UJ	0.39 U	0.22 UJ
Trifluorotrichloroethane (CFC-113)	µg/kg	440 UJ	43 UJ	0.80 U	0.45 U
Vinyl chloride	µg/kg	320 U	32 UJ	1.9 J	0.26 U
Xylenes (total)	µg/kg	530 U	53 UJ	2.2 J	0.37 U

Table 2A

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January, July, and August 2018

	Location ID:	**GP01-18**	**GP25-18**	**GP19-18**	**GP20-18**
	Sample Name:	**S-38443-012518-JC-064**	**S-38443-012918-JC-066**	**S-38443-012418-JC-063**	**S-38443-012218-JC-060**
	Sample Date:	**01/25/2018**	**01/29/2018**	**01/24/2018**	**01/22/2018**
	Depth:	**5.5-6.5 ft bgs**	**15-16 ft bgs**	**11-12 ft bgs**	**11-12 ft bgs**
Parameters	**Unit**				
General Chemistry					
Fraction organic carbon (FOC)	%	11.2	10.5	2.9	0.2
Geotechnical Parameters					
Coarse sand	%	10.7	8.5	3.7	15.2
Fine sand	%	19.1	25.4	11.4	8.0
Fines	%	11.8	34.1	35.3	11.7
Gravel	%	33.8	15.7	43.5	42.1
Medium sand	%	24.6	16.3	6.1	23.0
Sand	%	54.4	50.2	21.2	46.2
Sieve, #10	% passed	55.5	75.8	52.8	42.7
Sieve, #100	% passed	17.2	43.8	40.3	13.6
Sieve, #20	% passed	43.2	68.2	49.6	30.3
Sieve, #200	% passed	11.8	34.1	35.3	11.7
Sieve, #4	% passed	66.2	84.3	56.5	57.9
Sieve, #40	% passed	30.9	59.5	46.7	19.7
Sieve, #60	% passed	22.9	51.6	43.7	15.6
Sieve, #80	% passed	19.2	46.9	41.6	14.3
Sieve, 0.375 inch	% passed	78.4	94.6	60.4	75.0
Sieve, 0.75 inch	% passed	100.0	100.0	67.2	94.0
Sieve, 1 inch	% passed	100.0	100.0	67.2	100.0
Sieve, 1.5 inch	% passed	100.0	100.0	100.0	100.0
Sieve, 2 inch	% passed	100.0	100.0	100.0	100.0
Sieve, 3 inch	% passed	100.0	100.0	100.0	100.0

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated

Table 2A

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January, July, and August 2018

Location ID:		**GP26-18**	**GP27-18**	**GP28-18**	**GP29-18**
Sample Name:		**S-38443-012918-JC-065**	**S-38443-013018-JC-067**	**S-38443-013018-JC-068**	**S-38443-013018-JC-069**
Sample Date:		**01/29/2018**	**01/30/2018**	**01/30/2018**	**01/30/2018**
Depth:		**13.5-14.5 ft bgs**	**7-8 ft bgs**	**15-16 ft bgs**	**9-10 ft bgs**
Parameters	**Unit**				
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/kg	0.25 U	41 U	13000 U	0.23 UJ
1,1,2,2-Tetrachloroethane	µg/kg	0.29 U	35 U	11000 U	0.26 U
1,1,2-Trichloroethane	µg/kg	0.43 U	33 U	11000 U	0.39 U
1,1-Dichloroethane	µg/kg	0.36 U	45 U	15000 U	0.33 U
1,1-Dichloroethene	µg/kg	0.60 U	52 U	17000 U	0.54 U
1,2,4-Trichlorobenzene	µg/kg	0.98 J	38 U	12000 U	0.24 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	0.75 U	69 U	23000 U	0.68 U
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	0.39 U	33 U	11000 U	0.35 U
1,2-Dichlorobenzene	µg/kg	0.24 U	200 J	8500 U	0.22 U
1,2-Dichloroethane	µg/kg	0.32 U	43 U	14000 U	0.29 U
1,2-Dichloropropane	µg/kg	0.34 U	43 U	14000 U	0.31 U
1,3-Dichlorobenzene	µg/kg	0.32 U	55 U	18000 U	0.29 U
1,4-Dichlorobenzene	µg/kg	0.39 U	2900	13000 U	0.35 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	6.3 J	270 J	24000 U	12 J
2-Hexanone	µg/kg	0.64 U	120 U	40000 U	0.58 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	0.98 U	58 U	19000 U	0.88 U
Acetone	µg/kg	15 J	880 J	46000 U	44 U
Benzene	µg/kg	0.35 U	35 U	11000 U	0.36 J
Bromodichloromethane	µg/kg	0.36 U	26 U	8500 U	0.33 U
Bromoform	µg/kg	0.44 U	33 U	11000 U	0.40 U
Bromomethane (Methyl bromide)	µg/kg	0.65 U	41 U	13000 U	0.59 U
Carbon disulfide	µg/kg	0.23 U	26 U	8500 U	0.21 U
Carbon tetrachloride	µg/kg	0.28 U	39 U	13000 U	0.25 U
Chlorobenzene	µg/kg	5.4 J	1900	14000 U	0.33 U
Chloroethane	µg/kg	0.42 U	41 U	13000 U	0.38 U
Chloroform (Trichloromethane)	µg/kg	0.25 U	35 U	11000 U	0.23 U
Chloromethane (Methyl chloride)	µg/kg	0.42 U	26 U	8500 U	0.38 U

Table 2A

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January, July, and August 2018

	Location ID:	**GP26-18**	**GP27-18**	**GP28-18**	**GP29-18**
	Sample Name:	**S-38443-012918-JC-065**	**S-38443-013018-JC-067**	**S-38443-013018-JC-068**	**S-38443-013018-JC-069**
	Sample Date:	**01/29/2018**	**01/30/2018**	**01/30/2018**	**01/30/2018**
	Depth:	**13.5-14.5 ft bgs**	**7-8 ft bgs**	**15-16 ft bgs**	**9-10 ft bgs**
Parameters	**Unit**				
Volatile Organic Compounds					
cis-1,2-Dichloroethene	µg/kg	0.31 U	51 U	16000 U	0.88 J
cis-1,3-Dichloropropene	µg/kg	0.29 U	33 U	11000 U	0.26 U
Cyclohexane	µg/kg	0.23 U	43 U	14000 U	0.21 U
Dibromochloromethane	µg/kg	0.33 U	49 U	16000 U	0.30 U
Dichlorodifluoromethane (CFC-12)	µg/kg	0.39 U	32 U	10000 U	0.35 UJ
Ethylbenzene	µg/kg	0.30 U	51 U	350000	0.44 J
Isopropyl benzene	µg/kg	0.65 J	49 U	16000 U	1.4 J
Methyl acetate	µg/kg	1.3 U	260 J	35000 U	1.2 U
Methyl cyclohexane	µg/kg	0.25 U	54 U	17000 U	0.23 U
Methyl tert butyl ether (MTBE)	µg/kg	0.30 U	38 U	12000 U	0.27 U
Methylene chloride	µg/kg	1.7 U	240 U	33000 U	1.8 UJ
Styrene	µg/kg	0.30 U	14 U	4700 U	0.27 U
Tetrachloroethene	µg/kg	0.41 U	30 U	9900 U	0.37 U
Toluene	µg/kg	0.56 J	46 J	11000 U	0.60 J
trans-1,2-Dichloroethene	µg/kg	0.42 U	51 U	16000 U	0.38 U
trans-1,3-Dichloropropene	µg/kg	0.23 U	22 U	7100 U	0.21 U
Trichloroethene	µg/kg	0.45 U	54 U	17000 U	0.41 U
Trichlorofluoromethane (CFC-11)	µg/kg	0.27 U	49 U	16000 U	0.24 U
Trifluorotrichloroethane (CFC-113)	µg/kg	0.54 U	33 U	11000 U	0.49 U
Vinyl chloride	µg/kg	0.31 U	25 U	8000 U	0.28 U
Xylenes (total)	µg/kg	0.44 U	160 J	3000000	1.4 J

Table 2A

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January, July, and August 2018

	Location ID:	**GP26-18**	**GP27-18**	**GP28-18**	**GP29-18**
	Sample Name:	**S-38443-012918-JC-065**	**S-38443-013018-JC-067**	**S-38443-013018-JC-068**	**S-38443-013018-JC-069**
	Sample Date:	**01/29/2018**	**01/30/2018**	**01/30/2018**	**01/30/2018**
	Depth:	**13.5-14.5 ft bgs**	**7-8 ft bgs**	**15-16 ft bgs**	**9-10 ft bgs**
Parameters	**Unit**				
General Chemistry					
Fraction organic carbon (FOC)	%	2.2	6.9	0.7	3.0
Geotechnical Parameters					
Coarse sand	%	5.0	18.3	2.8	5.0
Fine sand	%	10.5	21.5	41.9	56.9
Fines	%	50.3	18.4	9.9	12.0
Gravel	%	24.1	23.7	34.5	5.6
Medium sand	%	10.1	18.1	10.9	20.5
Sand	%	25.6	57.9	55.6	82.4
Sieve, #10	% passed	70.9	58.0	62.7	89.4
Sieve, #100	% passed	53.6	26.7	15.5	18.5
Sieve, #20	% passed	65.6	49.2	60.7	87.0
Sieve, #200	% passed	50.3	18.4	9.9	12.0
Sieve, #4	% passed	75.9	76.3	65.5	94.4
Sieve, #40	% passed	60.8	39.9	51.8	68.9
Sieve, #60	% passed	57.0	33.4	30.1	34.7
Sieve, #80	% passed	54.8	29.4	19.2	23.1
Sieve, 0.375 inch	% passed	80.0	87.6	69.4	97.6
Sieve, 0.75 inch	% passed	100.0	100.0	73.5	100.0
Sieve, 1 inch	% passed	100.0	100.0	84.6	100.0
Sieve, 1.5 inch	% passed	100.0	100.0	100.0	100.0
Sieve, 2 inch	% passed	100.0	100.0	100.0	100.0
Sieve, 3 inch	% passed	100.0	100.0	100.0	100.0

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated

Table 2A

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January, July, and August 2018

Location ID:		**GP30-18**	**GP31-18**	**GP32-18**	**GP33-18**
Sample Name:		**S-38443-011718-JC-049**	**S-38443-011918-JC-056**	**S-38443-011018-JC-037**	**S-38443-012218-JC-058**
Sample Date:		**01/17/2018**	**01/19/2018**	**01/10/2018**	**01/22/2018**
Depth:		**10.5-11.5 ft bgs**	**8-9 ft bgs**	**10-11 ft BGS**	**17.5-18.5 ft bgs**
Parameters	**Unit**				
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/kg	0.20 U	0.22 UJ	0.30 U	0.20 U
1,1,2,2-Tetrachloroethane	µg/kg	0.23 U	0.25 U	0.34 U	0.23 U
1,1,2-Trichloroethane	µg/kg	0.35 U	0.37 U	0.50 U	0.34 U
1,1-Dichloroethane	µg/kg	0.29 U	0.32 U	0.43 U	0.29 U
1,1-Dichloroethene	µg/kg	0.48 U	0.52 U	0.70 U	0.47 U
1,2,4-Trichlorobenzene	µg/kg	0.21 U	0.23 U	0.31 U	0.21 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	0.60 U	0.65 U	0.88 U	0.59 U
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	0.31 U	0.34 U	0.45 U	0.31 U
1,2-Dichlorobenzene	µg/kg	0.20 U	0.21 U	0.28 U	0.19 U
1,2-Dichloroethane	µg/kg	0.26 U	0.28 U	0.38 U	0.25 U
1,2-Dichloropropane	µg/kg	0.27 U	0.30 U	0.40 U	0.27 U
1,3-Dichlorobenzene	µg/kg	0.26 U	0.28 U	0.38 U	0.25 U
1,4-Dichlorobenzene	µg/kg	0.31 U	0.34 U	0.45 U	0.31 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	1.1 U	1.2 U	1.6 U	1.1 U
2-Hexanone	µg/kg	0.51 U	0.56 U	0.75 U	0.51 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	0.79 U	0.85 U	1.2 U	0.78 U
Acetone	µg/kg	2.7 U	8.3 U	4.0 U	2.7 U
Benzene	µg/kg	0.43 J	0.31 U	0.41 U	0.28 U
Bromodichloromethane	µg/kg	0.29 U	0.32 U	0.43 U	0.29 U
Bromoform	µg/kg	0.35 U	0.38 U	0.52 U	0.35 U
Bromomethane (Methyl bromide)	µg/kg	0.52 U	0.57 U	0.76 U	0.51 U
Carbon disulfide	µg/kg	0.19 U	0.20 U	0.27 U	0.18 U
Carbon tetrachloride	µg/kg	0.22 U	0.24 U	0.32 U	0.22 U
Chlorobenzene	µg/kg	0.29 U	0.32 U	0.43 U	0.29 U
Chloroethane	µg/kg	0.34 U	0.36 U	0.49 U	0.33 U
Chloroform (Trichloromethane)	µg/kg	0.20 U	0.22 U	0.30 U	0.20 U
Chloromethane (Methyl chloride)	µg/kg	0.34 U	0.36 U	0.49 U	0.33 U

Table 2A

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January, July, and August 2018

	Location ID:	**GP30-18**	**GP31-18**	**GP32-18**	**GP33-18**
	Sample Name:	**S-38443-011718-JC-049**	**S-38443-011918-JC-056**	**S-38443-011018-JC-037**	**S-38443-012218-JC-058**
	Sample Date:	**01/17/2018**	**01/19/2018**	**01/10/2018**	**01/22/2018**
	Depth:	**10.5-11.5 ft bgs**	**8-9 ft bgs**	**10-11 ft BGS**	**17.5-18.5 ft bgs**
Parameters	**Unit**				
Volatile Organic Compounds					
cis-1,2-Dichloroethene	µg/kg	0.25 U	0.27 U	0.36 U	0.24 U
cis-1,3-Dichloropropene	µg/kg	0.23 U	0.25 U	0.34 U	0.23 U
Cyclohexane	µg/kg	0.19 U	0.20 U	0.27 U	0.18 U
Dibromochloromethane	µg/kg	0.27 U	0.29 U	0.39 U	0.26 U
Dichlorodifluoromethane (CFC-12)	µg/kg	0.31 U	0.34 U	0.45 U	0.31 U
Ethylbenzene	µg/kg	0.52 J	0.35 J	0.35 U	0.24 U
Isopropyl benzene	µg/kg	0.18 U	0.19 U	0.26 U	0.17 U
Methyl acetate	µg/kg	1.0 U	1.1 U	1.5 U	1.0 U
Methyl cyclohexane	µg/kg	0.20 U	0.29 J	0.30 U	0.20 U
Methyl tert butyl ether (MTBE)	µg/kg	0.24 U	0.26 U	0.35 U	0.24 U
Methylene chloride	µg/kg	0.57 U	5.0 U	0.97 U	5.1 U
Styrene	µg/kg	0.24 U	0.26 U	0.35 U	0.24 U
Tetrachloroethene	µg/kg	0.34 J	0.35 U	0.48 U	0.32 U
Toluene	µg/kg	1.5 J	0.77 J	1.3 J	0.67 J
trans-1,2-Dichloroethene	µg/kg	0.34 U	0.36 U	0.49 U	0.33 U
trans-1,3-Dichloropropene	µg/kg	0.19 U	0.20 U	0.27 U	0.18 U
Trichloroethene	µg/kg	2.7 J	5.6	1.5 J	0.36 U
Trichlorofluoromethane (CFC-11)	µg/kg	0.21 U	0.23 U	0.31 U	0.21 UJ
Trifluorotrichloroethane (CFC-113)	µg/kg	0.43 U	0.47 U	0.63 U	0.43 U
Vinyl chloride	µg/kg	0.25 U	0.27 U	0.36 U	0.24 U
Xylenes (total)	µg/kg	0.71 J	0.79 J	0.52 U	0.35 U

Table 2A

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January, July, and August 2018

	Location ID:	**GP30-18**	**GP31-18**	**GP32-18**	**GP33-18**
	Sample Name:	**S-38443-011718-JC-049**	**S-38443-011918-JC-056**	**S-38443-011018-JC-037**	**S-38443-012218-JC-058**
	Sample Date:	**01/17/2018**	**01/19/2018**	**01/10/2018**	**01/22/2018**
	Depth:	**10.5-11.5 ft bgs**	**8-9 ft bgs**	**10-11 ft BGS**	**17.5-18.5 ft bgs**
Parameters	**Unit**				
General Chemistry					
Fraction organic carbon (FOC)	%	0.3	0.3	2.7	0.3
Geotechnical Parameters					
Coarse sand	%	9.4	8.0	14.2	11.8
Fine sand	%	9.4	4.3	15.7	10.4
Fines	%	11.8	6.4	10.6	9.3
Gravel	%	50.4	69.6	40.1	54.6
Medium sand	%	19.0	11.7	19.4	13.9
Sand	%	37.8	24.0	49.3	36.1
Sieve, #10	% passed	40.2	22.4	45.7	33.6
Sieve, #100	% passed	13.6	7.5	15.4	11.7
Sieve, #20	% passed	31.5	16.0	36.0	26.2
Sieve, #200	% passed	11.8	6.4	10.6	9.3
Sieve, #4	% passed	49.6	30.4	59.9	45.4
Sieve, #40	% passed	21.2	10.7	26.3	19.7
Sieve, #60	% passed	15.9	8.6	19.9	14.9
Sieve, #80	% passed	14.3	7.9	16.8	12.7
Sieve, 0.375 inch	% passed	61.3	38.7	81.3	61.7
Sieve, 0.75 inch	% passed	69.6	52.5	100.0	84.0
Sieve, 1 inch	% passed	74.2	60.8	100.0	100.0
Sieve, 1.5 inch	% passed	100.0	100.0	100.0	100.0
Sieve, 2 inch	% passed	100.0	100.0	100.0	100.0
Sieve, 3 inch	% passed	100.0	100.0	100.0	100.0

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated

Table 2B

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January, July, and August 2018

Location ID:		**GP07-18**	**GP34-18**
Sample Name:		**SO-38443-080118-JC-121**	**SO-38443-073118-JC-120**
Sample Date:		**08/01/2018**	**07/31/2018**
Depth:		**12-13**	**10-11**
Parameters	**Unit**		
Volatile Organic Compounds			
1,1,1-Trichloroethane	µg/kg	26 U	0.78 U
1,1,2,2-Tetrachloroethane	µg/kg	22 U	1.4 U
1,1,2-Trichloroethane	µg/kg	21 U	1.1 U
1,1-Dichloroethane	µg/kg	29 U	0.66 U
1,1-Dichloroethene	µg/kg	33 U	0.86 U
1,2,4-Trichlorobenzene	µg/kg	24 U	0.54 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	44 U	3.4 U
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	21 U	0.73 U
1,2-Dichlorobenzene	µg/kg	17 U	1.1 U
1,2-Dichloroethane	µg/kg	28 UJ	0.73 U
1,2-Dichloropropane	µg/kg	28 U	0.81 U
1,3-Dichlorobenzene	µg/kg	35 U	0.78 U
1,4-Dichlorobenzene	µg/kg	25 U	0.84 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	46 U	3.4 U
2-Hexanone	µg/kg	79 U	3.9 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	37 U	3.5 U
Acetone	µg/kg	130 U	20 U
Benzene	µg/kg	22 U	0.66 U
Bromodichloromethane	µg/kg	17 UJ	0.65 U
Bromoform	µg/kg	21 U	2.3 U
Bromomethane (Methyl bromide)	µg/kg	26 U	0.94 U
Carbon disulfide	µg/kg	17 U	1.1 U
Carbon tetrachloride	µg/kg	25 UJ	3.1 U
Chlorobenzene	µg/kg	28 U	0.87 U
Chloroethane	µg/kg	26 U	1.2 U
Chloroform (Trichloromethane)	µg/kg	22 U	0.75 U
Chloromethane (Methyl chloride)	µg/kg	17 U	0.99 U
cis-1,2-Dichloroethene	µg/kg	32 U	0.62 U
cis-1,3-Dichloropropene	µg/kg	21 UJ	1.4 U
Cyclohexane	µg/kg	28 U	1.3 U
Dibromochloromethane	µg/kg	31 U	2.6 U
Dichlorodifluoromethane (CFC-12)	µg/kg	20 U	0.90 U
Ethylbenzene	µg/kg	380	1.0 U
Isopropyl benzene	µg/kg	140 J	0.79 U
Methyl acetate	µg/kg	69 U	3.2 U
Methyl cyclohexane	µg/kg	77 J	1.2 U
Methyl tert butyl ether (MTBE)	µg/kg	24 U	0.78 U
Methylene chloride	µg/kg	60 U	11 U
Styrene	µg/kg	9.2 U	1.1 U
Tetrachloroethene	µg/kg	19 U	0.69 U
Toluene	µg/kg	430	0.73 U
trans-1,2-Dichloroethene	µg/kg	32 U	0.44 U

Table 2B

Analytical Results Summary
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January, July, and August 2018

Location ID:		**GP07-18**	**GP34-18**
Sample Name:		**SO-38443-080118-JC-121**	**SO-38443-073118-JC-120**
Sample Date:		**08/01/2018**	**07/31/2018**
Depth:		**12-13**	**10-11**
Parameters	**Unit**		
Volatile Organic Compounds			
trans-1,3-Dichloropropene	µg/kg	14 U	0.98 U
Trichloroethene	µg/kg	34 UJ	0.60 U
Trichlorofluoromethane (CFC-11)	µg/kg	31 U	1.0 U
Trifluorotrichloroethane (CFC-113)	µg/kg	21 U	1.2 U
Vinyl chloride	µg/kg	16 U	0.80 U
Xylenes (total)	µg/kg	2800	1.5 U
Geotechnical Parameters			
Coarse sand	%	15.4	11.8
Fine sand	%	7.4	20.5
Fines	%	7.7	14.3
Gravel	%	49.2	33.9
Medium sand	%	20.4	19.5
Sand	%	43.2	51.8
Sieve, #10	% passed	35.4	54.3
Sieve, #100	% passed	9.3	16.7
Sieve, #20	% passed	24.2	45.3
Sieve, #200	% passed	7.7	14.3
Sieve, #4	% passed	50.8	66.1
Sieve, #40	% passed	15.0	34.8
Sieve, #60	% passed	11.1	21.7
Sieve, #80	% passed	9.9	17.8
Sieve, 0.375 inch	% passed	64.0	80.8
Sieve, 0.75 inch	% passed	77.5	96.5
Sieve, 1 inch	% passed	100.0	100.0
Sieve, 1.5 inch	% passed	100.0	100.0
Sieve, 2 inch	% passed	100.0	100.0
Sieve, 3 inch	% passed	100.0	100.0

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated

Table 3

Analytical Methods
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January, July, and August 2018

Parameter	Method	Matrix	Holding Time	
			Collection to Extraction (Days)	Collection or Extraction to Analysis (Days)
VOC	SW-846 8260B	Soil	48 hours	14
FOC	ASTM D2974	Soil	--	--
Grain Size	ASTM D422	Soil	--	--

Notes:

Method References:
SW-846 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, 1986, with subsequent revisions
ASTM - Annual Book of ASTM Standards, American Society for Testing Materials, Section 5 and Section 11

VOC - Volatile Organic Compound
FOC - Fractional Organic Carbon
-- - Not applicable

Table 4

Qualified Sample Results Due to Outlying Continuing Calibration Results
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January, July, and August 2018

Parameter	Analyte	Calibration Date (mm/dd/yyyy)	%D	Associated Sample ID	Qualified Result	Units
VOC	1,1,1-Trichloroethane	01/23/2018	26.2	S-38443-011918-JC-056	0.22 UJ	µg/kg
VOC	Trichlorofluoromethane	01/24/2018	26.1	S-38443-012218-JC-058	0.21 UJ	µg/kg
				S-38443-012218-JC-060	0.22 UJ	µg/kg
VOC	Dichlorodifluoromethane	02/06/2018	45.7	S-38443-013018-JC-069	0.35 UJ	µg/kg
VOC	Methylene chloride	02/06/2018	67.8	S-38443-013018-JC-069	1.1 UJ	µg/kg
VOC	1,1,1-Trichloroethane	02/06/2018	26.2	S-38443-013018-JC-069	0.23 UJ	µg/kg
VOC	1,2-Dichloroethane	08/06/2018	32	SO-38443-080118-JC-121	28 UJ	µg/kg
	Bromodichloromethane		29		17 UJ	µg/kg
	Carbon tetrachloride		30		25 UJ	µg/kg
	cis-1,3-Dichloropropene		28		21 UJ	µg/kg
	Trichloroethene		26		34 UJ	µg/kg

Notes:

%D - Percent difference
VOC - Volatile Organic Compound
UJ - Not detected; associated reporting limit is estimated

Table 5

Qualified Sample Results Due to Analyte Concentrations in the Method Blanks
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January, July, and August 2018

Parameter	Analyte	Analysis Date (mm/dd/yyyy)	DF	Blank Result *	Raw Blank Result	Sample ID	Original Result	Qualified Result	Units
VOCs	Methylene chloride	01/12/2018	1	0.97 J	0.799 J	S-38443-011018-JC-037	0.85 J	0.97 U	µg/Kg
VOCs	Methylene chloride	01/19/2018	1	0.57 J	0.537 J	S-38443-011718-JC-049	0.45 J	0.57 U	µg/Kg
VOCs	Acetone	01/23/2018	1	8.3 J	7.7 J	S-38443-011918-JC-056	5.6 J	8.3 U	µg/Kg
VOCs	Methylene chloride	01/23/2018	1	5.0 J	4.6 J	S-38443-011918-JC-056	1.3 J	5.0 U	µg/Kg
VOCs	Methylene chloride	01/24/2018	1	5.1 J	4.76 J	S-38443-012218-JC-058	3.5 J	5.1 U	µg/Kg
			1	5.0 J	4.76 J	S-38443-012218-JC-060	4.3 J	5.0 U	µg/Kg
VOCs	Acetone	01/26/2018	1	5.3 J	3.98 J	S-38443-012418-JC-063	20 J	20 U	µg/Kg
VOCs	Methylene chloride	01/26/2018	1	7.8 J	5.86	S-38443-012418-JC-063	9.7 J	9.7 U	µg/Kg
VOCs	Methylene chloride	01/31/2018	10	2232 J	152 J	S-38443-012518-JC-064	2500 J	2500 U	µg/Kg
VOCs	Methylene chloride	02/02/2018	1	81 J	67.9 J	S-38443-013018-JC-067	240 J	240 U	µg/Kg
			400	31183 J	67.9 J	S-38443-013018-JC-068	33000 J	33000 U	µg/Kg
			1	95 J	67.9 J	S-38443-012918-JC-066	150 J	150 U	µg/Kg
VOCs	Acetone	02/06/2018	1	11 J	10.3 J	S-38443-013018-JC-069	44	44 U	µg/Kg
VOCs	Methylene chloride	02/06/2018	1	1.8 J	1.62 J	S-38443-013018-JC-069	1.1 J	1.8 U	µg/Kg
VOCs	Methylene chloride	02/03/2018	1	1.6 J	1.22 J	S-38443-012918-JC-065	1.7 J	1.7 U	µg/Kg
VOCs	Acetone	08/06/2018	1	116 J	110 J	SO-38443-080118-JC-121	130 J	130 U	µg/Kg

Notes:

* - Blank result adjusted for moisture and dilution factors
U - Not detected at the associated reporting limit
J - Estimated concentration
DF - Dilution Factor
VOCs - Volatile Organic Compounds

Table 6

Qualified Sample Data Due to Outlying Surrogate Recoveries
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January, July, and August 2018

Parameter	Sample ID	Surrogate	Surrogate % Recovery	Control Limits % Recovery	Analyte	Qualified Result	Units
VOC	S-38443-012918-JC-066	p-Bromofluorobenzene	40	58-142	1,1,1-Trichloroethane	53 UJ	µg/kg
					1,1,2,2-Tetrachloroethane	45 UJ	µg/kg
					1,1,2-Trichloroethane	43 UJ	µg/kg
					1,1-Dichloroethane	58 UJ	µg/kg
					1,1-Dichloroethene	68 UJ	µg/kg
					1,2,4-Trichlorobenzene	49 UJ	µg/kg
					1,2-Dibromo-3-chloropropane	90 UJ	µg/kg
					1,2-Dibromoethane	43 UJ	µg/kg
					1,2-Dichlorobenzene	34 UJ	µg/kg
					1,2-Dichloroethane	56 UJ	µg/kg
					1,2-Dichloropropane	56 UJ	µg/kg
					1,3-Dichlorobenzene	71 UJ	µg/kg
					1,4-Dichlorobenzene	51 UJ	µg/kg
					2-Butanone	94 UJ	µg/kg
					2-Hexanone	160 UJ	µg/kg
					4-Methyl-2-pentanone	75 UJ	µg/kg
					Acetone	180 UJ	µg/kg
					Benzene	45 UJ	µg/kg
					Bromodichloromethane	34 UJ	µg/kg
					Bromoform	43 UJ	µg/kg
					Bromomethane	53 UJ	µg/kg
					Carbon disulfide	34 UJ	µg/kg
					Carbon tetrachloride	51 UJ	µg/kg
					Chlorobenzene	2000 J	µg/kg
					Chloroethane	53 UJ	µg/kg
					Chloroform	45 UJ	µg/kg
					Chloromethane	34 UJ	µg/kg
					cis-1,2-Dichloroethene	66 UJ	µg/kg
					cis-1,3-Dichloropropene	43 UJ	µg/kg
					Cyclohexane	56 UJ	µg/kg
					Dibromochloromethane	64 UJ	µg/kg

Table 6

Qualified Sample Data Due to Outlying Surrogate Recoveries
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January, July, and August 2018

Parameter	Sample ID	Surrogate	Surrogate % Recovery	Control Limits % Recovery	Analyte	Qualified Result	Units
VOC	S-38443-012918-JC-066	p-Bromofluorobenzene	40	58-142	Dichlorodifluoromethane	41 UJ	µg/kg
					Ethylbenzene	66 UJ	µg/kg
					Isopropyl benzene	64 UJ	µg/kg
					Methyl acetate	140 UJ	µg/kg
					Methyl cyclohexane	69 UJ	µg/kg
					Methyl tert butyl ether	49 UJ	µg/kg
					Methylene chloride	150 UJ	µg/kg
					Styrene	19 UJ	µg/kg
					Tetrachloroethene	39 UJ	µg/kg
					Toluene	45 UJ	µg/kg
					trans-1,2-Dichloroethene	66 UJ	µg/kg
					trans-1,3-Dichloropropene	28 UJ	µg/kg
					Trichloroethene	69 UJ	µg/kg
					Trichlorofluoromethane	64 UJ	µg/kg
					Trifluorotrichloroethane	43 UJ	µg/kg
					Vinyl chloride	32 UJ	µg/kg
					Xylenes (total)	53 UJ	µg/kg

Notes:

VOC - Volatile Organic Compound
J - Not detected; associated reporting limit is estimated
UJ - Not detected; associated reporting limit is estimated

Table 7

Qualified Sample Results Due to Outlying Laboratory Control Sample Results
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January, July, and August 2018

Parameter	Analyte	LCS Date (mm/dd/yyyy)	LCS % Recovery	Control Limits % Recovery	Associated Sample ID	Qualified Results	Units
VOC	Methyl cyclohexane	01/31/2018	70	71-126	S-38443-012518-JC-064	700 UJ	µg/kg
VOC	Trifluorotrichloroethane	01/31/2018	62	64-125	S-38443-012518-JC-064	440 UJ	µg/kg
VOC	Acetone	02/03/2018	133	24-125	S-38443-012918-JC-065	15 J	µg/kg
VOC	2-Butanone	02/06/2018	134	51-120	S-38443-013018-JC-069	12 J	µg/kg

Notes:

LCS - Laboratory Control Sample
VOC - Volatile Organic Compound
J - Estimated concentration
UJ - Not detected; associated reporting limit is estimated

Table 8

Qualified Sample Results Due to Outlying MS/MSD Results
Soil Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January, July, and August 2018

Parameter	Sample ID	Analyte	MS % Recovery	MSD % Recovery	RPD (percent)	Control Limits % Recovery	Control Limits RPD	Qualified Result	Units
VOC	S-38443-013018-JC-067	Acetone	232	105	62	15-127	40	880 J	µg/kg

Notes:

MS - Matrix Spike
MSD - Matrix Spike Duplicate
RPD - Relative Percent Difference
VOC - Volatile Organic Compound
J - Estimated concentration

Memorandum

October 2, 2018

To:	Julian Hayward	Ref. No.:	038443-202
From:	Angela Bown/cs/44-NF	Tel:	513-942-4750
cc:	Valerie Chan, Brent Ramdial		
Subject:	**Analytical Results and Full Validation Soil Vapor Sampling South Dayton Dump and Landfill Illinois Tool Works, Inc. Moraine, Ohio August 2018**		

1. Introduction

This document details a validation of analytical results for air samples collected in support of the Soil Vapor Sampling at the South Dayton Dump and Landfill site during August 2018. Samples were submitted to TestAmerica Laboratories, Inc. (TestAmerica) located in Knoxville, Tennessee. A sample collection and analysis summary is presented in Table 1. The validated analytical results are summarized in Table 2. A summary of the analytical methodology is presented in Table 3.

Full Contract Laboratory Program (CLP) equivalent raw data deliverables were provided by the laboratory. Evaluation of the data was based on information obtained from the finished data sheets, raw data, chain of custody forms, calibration data, blank data, and recovery data from surrogate spikes and laboratory control samples (LCS), and field QA/QC samples. The assessment of analytical and in-house data included checks for: data consistency (by observing comparability of duplicate analyses), adherence to accuracy and precision criteria, and transmittal errors.

The QA/QC criteria by which these data have been assessed are outlined in the analytical method referenced in Table 3 and applicable guidance from the documents entitled:

i) "Quality Assurance Project Plan (QAPP)", Revision 01, November 2014

ii) "USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review", USEPA 540-R-08-01, June 2008

iii) "Vapor Intrusion Technical Guidance", New Jersey Department of Environmental Protection (NJDEP) Site Remediation Program, March 2013, Version 3.1

Items ii) and iii) will subsequently be referred to as the "Guidelines" in this Memorandum.

2. Sample Holding Time and Preservation

The sample holding time criterion for the analysis is presented in Table 3. Sample chain of custody documents and analytical reports were used to determine sample holding times. All samples were analyzed within the required holding times.

All sample canisters were received at the laboratory in good condition and within acceptable canister pressure range of –1 inch of mercury (Hg) to –10 inches of Hg, indicating samples were still under vacuum upon receipt.

3. Gas Chromatography/Mass Spectrometer (GC/MS) – Tuning and Mass Calibration (Instrument Performance Check)

Prior to volatile organic compound (VOC) analysis, GC/MS instrumentation is tuned to ensure optimization over the mass range of interest. To evaluate instrument tuning, the method requires the analysis of the specific tuning compound 4-bromofluorobenzene (BFB). The resulting spectra must meet the criteria cited in the method before analysis is initiated. Analysis of the tuning compound must then be repeated every 24 hours throughout sample analysis to ensure the continued optimization of the instrument.

The tuning compound was analyzed at the required frequency throughout VOC analysis periods. All tuning criteria were met indicating that proper optimization of the instrumentation was achieved.

4. Initial Calibration - Organic Analyses

To quantify VOCs of interest in samples, calibration of the GC/MS over a specific concentration range must be performed. Initially, a five-point calibration curve containing all compounds of interest is analyzed to characterize instrument response for each analyte over a specific concentration range. Linearity of the calibration curve and instrument sensitivity are evaluated against the following criteria:

i) All relative response factors (RRFs) must be greater than or equal to 0.050

ii) The percent relative standard deviation (%RSD) values must not exceed 30.0 percent; or a minimum correlation coefficient (R) and minimum coefficient of determination (R^2) of 0.99 if linear and quadratic equation calibration curves are used

The initial calibration data for VOCs were reviewed. All compounds met the above criteria for sensitivity and linearity.

5. Continuing Calibration - Organic Analyses

To ensure that instrument calibration for VOC analyses is acceptable throughout the sample analysis period, continuing calibration standards must be analyzed and compared to the initial calibration curve every 24 hours.

The following criteria were employed to evaluate continuing calibration data:

i) All RRF values must be greater than or equal to 0.050

ii) Percent difference (%D) values must not exceed 30.0 percent

Calibration standards were analyzed at the required frequency and the results met the above criteria for instrument sensitivity and stability with the exception of the sample results presented with qualifiers in Table 4.

6. Laboratory Blank Analyses

Method blanks are prepared from a purified matrix and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the analytical procedures.

For this study, laboratory method blanks were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

All method blank results were non-detect indicating that laboratory contamination was not a factor for this investigation.

Canister batch certification blank results were also reviewed. Most canister blank results were non-detect for the analytes of concern. Acetone was detected at a low level in one canister blank. All associated sample results were either non-detect or were significantly greater than the blank value. Qualification was deemed unnecessary on this basis.

7. Surrogate Spike Recoveries

Individual sample performance for organic analyses was monitored by assessing the results of surrogate compound percent recoveries. Surrogate percent recoveries are reviewed against the laboratory developed control limits provided in the analytical report.

Although surrogate spikes are not required by Method TO-15, all samples were spiked with BFB. The surrogate recovery acceptance criteria were met for all samples indicating acceptable overall laboratory performance.

8. Internal Standards (IS) Analyses

IS data were evaluated for all VOC sample analyses.

To ensure that changes in the GC/MS sensitivity and response do not affect sample analysis results IS compounds are added to each sample prior to analysis. All results are then calculated as a ratio of the IS responses.

The sample IS results were evaluated against the following criteria:

i) The retention time of the IS must not vary more than ±20 seconds from the associated calibration standard.

ii) IS area counts must not vary by more than ± 40 percent from the associated calibration standard

All organic IS recoveries and retention times met the above criteria.

9. Laboratory Control Sample (LCS) Analyses

LCS are prepared and analyzed as samples to assess the analytical efficiencies of the methods employed, independent of sample matrix effects.

For this study, LCS were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

The LCS contained all compounds of interest. Most LCS recoveries were within the laboratory control limits, demonstrating acceptable analytical accuracy. Table 5 presents the sample results that were qualified due to outlying LCS recoveries.

10. Field QA/QC Samples

The field QA/QC consisted of one trip blank sample and four field duplicate sample sets.

Trip Blank Sample Analysis

To evaluate contamination from sample collection, transportation, storage, and analytical activities, one trip blank was submitted to the laboratory for VOC analysis. All results were non-detect for the compounds of interest with the exception of chlorodifluoromethane and tert-butyl alcohol that were detected at low levels. The associated sample results were either non-detect or were significantly greater than the trip blank value. Qualification of the sample results was deemed unnecessary on this basis.

Field Duplicate Sample Analysis

To assess the analytical and sampling protocol precision, four field duplicate sample sets were collected and submitted "blind" to the laboratory, as specified in Table 1. The RPDs associated with these duplicate samples should be less than the advisory limit of 50 percent. If the reported concentration in either the investigative sample or its duplicate is less than five times the reporting limit (RL), the evaluation criterion is one times the RL value for air samples.

Most field duplicate results were within acceptable agreement demonstrating acceptable sampling and analytical precision. Table 6 presents the sample results that were qualified due to variability in the field duplicate samples.

11. Analyte Reporting

The laboratory reported detected results down to the laboratory's method detection limit (MDL) for each analyte, adjusted for volumes and dilution factors. Positive analyte detections less than the RL but greater than the adjusted MDL were qualified as estimated (J) in Table 2 unless qualified otherwise in this memorandum.

Non-detect results were presented as non-detect at the adjusted MDL in Table 2.

12. Target Compound Identification

To minimize erroneous compound identification during organic analyses, qualitative criteria including compound retention time and mass spectra were evaluated according to the identification criteria established by the methods. The samples identified in Table 1 were reviewed. The organic compounds reported adhered to the specified identification criteria.

For one sample result, the laboratory noted that the peak identified by the data system exhibited chromatographic interference that could not be resolved. Because of this, there is reason to suspect there may be a high bias for this result. Table 7 presents the sample result that was qualified due to matrix interference.

13. Conclusion

Based on the assessment detailed in the foregoing, the data summarized in Table 2 are acceptable with the specific qualifications noted herein.

Table 1

Sample Collection and Analysis Summary
Soil Vapor Sampling
South Dayton Dump and Landfill
Illinois Tool Works, Inc.
Moraine, Ohio
August 2018

Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters: VOCs by TO-15	Comments
SVA-38443-082318-GL-030	GP20-18	Air	08/23/2018	11:25	X	
SVA-38443-082318-GL-031	GP22-13	Air	08/23/2018	12:46	X	
SVA-38443-082318-GL-032	GP22-13	Air	08/23/2018	12:46	X	FD(SVA-38443-082318-GL-031)
SVA-38443-082318-GL-033	Near GP19	Air	08/23/2018	15:10	X	
SVA-38443-082318-GL-034	GP19-18	Air	08/23/2018	15:10	X	
TB-38443-082318-GL-001	Trip Blank	Air	08/23/2018	-	X	
SVA-38443-082418-GL-035	GP32-18	Air	08/24/2018	08:00	X	
SVA-38443-082418-GL-036	GP01-18	Air	08/24/2018	09:19	X	
SVA-38443-082418-GL-037	GP01-18	Air	08/24/2018	09:19	X	FD(SVA-38443-082418-GL-036)
SVA-38443-082218-GL-024	GP24A-13	Air	08/22/2018	11:18	X	
SVA-38443-082218-GL-025	GP23-13	Air	08/22/2018	12:37	X	
SVA-38443-082218-GL-026	GP31-18	Air	08/22/2018	14:38	X	
SVA-38443-082218-GL-027	GP30-18	Air	08/22/2018	15:57	X	
SVA-38443-082318-GL-028	GP16-09	Air	08/23/2018	08:08	X	
SVA-38443-082318-GL-029	GP33-18	Air	08/23/2018	09:22	X	
SVA-38443-082018-GL-013	GP12-09	Air	08/20/2018	09:52	X	
SVA-38443-082018-GL-014	GP13-09	Air	08/20/2018	11:15	X	
SVA-38443-082018-GL-015	GP14-09	Air	08/20/2018	13:21	X	
SVA-38443-082018-GL-016	GP14-09	Air	08/20/2018	13:21	X	FD(SVA-38443-082018-GL-015)
SVA-38443-082018-GL-017	GP15-09	Air	08/20/2018	14:51	X	
SVA-38443-081418-GL-001	GP21-09	Air	08/14/2018	09:26	X	
SVA-38443-081418-GL-002	GP04-09	Air	08/14/2018	10:50	X	
SVA-38443-081418-GL-003	GP05-09	Air	08/14/2018	12:57	X	
SVA-38443-081418-GL-004	GP03-09	Air	08/14/2018	14:28	X	
SVA-38443-081418-GL-005	GP26-18	Air	08/14/2018	14:29	X	
SVA-38443-081418-GL-006	GP25-18	Air	08/14/2018	17:53	X	
SVA-38443-081518-GL-007	GP28-18	Air	08/15/2018	09:12	X	

Table 1

Sample Collection and Analysis Summary
Soil Vapor Sampling
South Dayton Dump and Landfill
Illinois Tool Works, Inc.
Moraine, Ohio
August 2018

Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters: VOCs by TO-15	Comments
SVA-38443-081518-GL-008	GP28-18	Air	08/15/2018	09:12	X	FD(SVA-38443-081518-GL-007)
SVA-38443-081518-GL-009	GP29-18	Air	08/15/2018	10:31	X	
SVA-38443-081518-GL-010	GP27-18	Air	08/15/2018	12:59	X	
SVA-38443-081518-GL-011	GP02-09	Air	08/15/2018	14:25	X	
SVA-38443-081518-GL-012	GP11-09	Air	08/15/2018	16:15	X	
SVA-38443-082118-GL-018	GP07-18	Air	08/21/2018	11:01	X	
SVA-38443-082118-GL-019	GP06-09	Air	08/21/2018	12:23	X	
SVA-38443-082118-GL-020	GP10-09	Air	08/21/2018	14:45	X	
SVA-38443-082118-GL-021	GP09-09	Air	08/21/2018	16:05	X	
SVA-38443-082218-GL-022	GP34-18	Air	08/22/2018	07:43	X	
SVA-38443-082218-GL-023	GP24B-13	Air	08/22/2018	09:17	X	

Notes:

VOCs - Volatile Organic Compounds
FD - Field Duplicate of Sample in Parentheses

Table 2

Analytical Results Summary
Soil Vapor Sampling
South Dayton Dump and Landfill
Illinois Tool Works, Inc.
Moraine, Ohio
August 2018

	Location ID:	**GP01-18**	**GP01-18**	**GP02-09**
	Sample Name:	**SVA-38443-082418-GL-036**	**SVA-38443-082418-GL-037**	**SVA-38443-081518-GL-011**
	Sample Date:	**08/24/2018**	**08/24/2018**	**08/15/2018**
			Duplicate	
Parameters	**Unit**			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/m3	32 U	34 U	2.2 U
1,1,2,2-Tetrachloroethane	µg/m3	83 U	87 U	5.7 U
1,1,2-Trichloroethane	µg/m3	58 U	61 U	4.0 U
1,1-Dichloroethane	µg/m3	21 U	22 U	1.6 J
1,1-Dichloroethene	µg/m3	27 U	28 U	1.8 U
1,2,4-Trichlorobenzene	µg/m3	140 U	150 U	9.9 UJ
1,2,4-Trimethylbenzene	µg/m3	61 U	64 U	15
1,2-Dibromoethane (Ethylene dibromide)	µg/m3	67 U	70 U	4.6 U
1,2-Dichlorobenzene	µg/m3	83 U	87 U	5.7 U
1,2-Dichloroethane	µg/m3	38 U	39 U	2.6 U
1,2-Dichloropropane	µg/m3	48 U	50 U	3.3 U
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m3	110 J	120 J	310
1,3,5-Trimethylbenzene	µg/m3	63 U	66 U	4.3 U
1,3-Butadiene	µg/m3	28 U	29 U	1.9 U
1,3-Dichlorobenzene	µg/m3	77 U	81 U	5.3 U
1,4-Dichlorobenzene	µg/m3	76 U	80 U	5.2 U
1,4-Dioxane	µg/m3	57 U	60 U	3.9 U
2,2,4-Trimethylpentane	µg/m3	3500	3600	2.5 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m3	120 U	120 U	8.0 U
2-Chlorotoluene	µg/m3	65 U	67 U	4.4 U
2-Hexanone	µg/m3	47 U	49 U	8.9 J
2-Phenylbutane (sec-Butylbenzene)	µg/m3	70 U	73 U	4.8 U
4-Ethyl toluene	µg/m3	64 U	67 U	4.5 J
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/m3	160 U	170 U	11 U
Acetone	µg/m3	660 U	690 U	58 J
Allyl chloride	µg/m3	30 U	31 U	2.0 U
Benzene	µg/m3	2200	2100	9.6
Benzyl chloride	µg/m3	80 U	84 U	5.5 U
Bromodichloromethane	µg/m3	58 U	61 U	4.0 U
Bromoform	µg/m3	98 U	100 U	6.7 U
Bromomethane (Methyl bromide)	µg/m3	25 U	26 U	1.7 U

Table 2

Analytical Results Summary
Soil Vapor Sampling
South Dayton Dump and Landfill
Illinois Tool Works, Inc.
Moraine, Ohio
August 2018

	Location ID:	**GP01-18**	**GP01-18**	**GP02-09**
	Sample Name:	**SVA-38443-082418-GL-036**	**SVA-38443-082418-GL-037**	**SVA-38443-081518-GL-011**
	Sample Date:	**08/24/2018**	**08/24/2018**	**08/15/2018**
			Duplicate	
Parameters	**Unit**			
Volatile Organic Compounds				
Butane	µg/m3	4000	3800	740
Carbon disulfide	µg/m3	58 J	54 J	15 J
Carbon tetrachloride	µg/m3	47 U	49 U	3.3 U
Chlorobenzene	µg/m3	110000	110000	3.1 U
Chlorodifluoromethane	µg/m3	580	540	470
Chloroethane	µg/m3	95 J	73 J	4.6 J
Chloroform (Trichloromethane)	µg/m3	37 U	38 U	2.5 U
Chloromethane (Methyl chloride)	µg/m3	65 U	68 U	4.5 U
cis-1,2-Dichloroethene	µg/m3	130 J	140 J	10 J
cis-1,3-Dichloropropene	µg/m3	67 U	69 U	4.6 U
Cyclohexane	µg/m3	1800	1900	310
Cymene (p-Isopropyltoluene)	µg/m3	62 U	65 U	4.3 U
Dibromochloromethane	µg/m3	71 U	74 U	4.9 U
Dichlorodifluoromethane (CFC-12)	µg/m3	67 U	70 U	330
Ethylbenzene	µg/m3	500	500	4.2 J
Hexachlorobutadiene	µg/m3	160 U	170 U	11 UJ
Hexane	µg/m3	1300	1200	220
Isopropyl alcohol	µg/m3	46 U	48 U	14 J
Isopropyl benzene	µg/m3	58 U	61 U	4.0 U
m&p-Xylenes	µg/m3	290	290	16
Methyl methacrylate	µg/m3	64 U	67 U	4.4 U
Methyl tert butyl ether (MTBE)	µg/m3	120 U	130 U	8.3 U
Methylene chloride	µg/m3	220 U	230 U	15 U
N-Butylbenzene	µg/m3	50 U	52 U	3.8 J
N-Heptane	µg/m3	1600	1600	130
N-Propylbenzene	µg/m3	55 U	57 U	3.7 U
Naphthalene	µg/m3	93 U	98 U	6.4 UJ
o-Xylene	µg/m3	52 U	55 U	6.8 J
Styrene	µg/m3	49 U	51 U	3.4 U
tert-Butyl alcohol	µg/m3	23 U	24 U	6.2 J
tert-Butylbenzene	µg/m3	72 U	75 U	5.7 J

Table 2

Analytical Results Summary
Soil Vapor Sampling
South Dayton Dump and Landfill
Illinois Tool Works, Inc.
Moraine, Ohio
August 2018

	Location ID:	**GP01-18**	**GP01-18**	**GP02-09**
	Sample Name:	**SVA-38443-082418-GL-036**	**SVA-38443-082418-GL-037**	**SVA-38443-081518-GL-011**
	Sample Date:	**08/24/2018**	**08/24/2018**	**08/15/2018**
			Duplicate	
Parameters	**Unit**			
Volatile Organic Compounds				
Tetrachloroethene	µg/m3	54 U	56 U	3.7 U
Tetrahydrofuran	µg/m3	37 U	38 U	2.5 U
Toluene	µg/m3	160	170	12
trans-1,2-Dichloroethene	µg/m3	39 U	41 U	2.7 U
trans-1,3-Dichloropropene	µg/m3	43 U	45 U	3.0 U
Trichloroethene	µg/m3	38 U	40 U	2.6 U
Trichlorofluoromethane (CFC-11)	µg/m3	27 U	28 U	1.8 U
Trifluorotrichloroethane (CFC-113)	µg/m3	47 U	49 U	3.2 U
Vinyl bromide (Bromoethene)	µg/m3	30 U	32 U	2.1 U
Vinyl chloride	µg/m3	1000	960	65

Notes:

U - Not detected at the associated reporting limit
J - Estimated concentration
UJ - Not detected; associated reporting limit is estimated

Table 2

Analytical Results Summary
Soil Vapor Sampling
South Dayton Dump and Landfill
Illinois Tool Works, Inc.
Moraine, Ohio
August 2018

	Location ID:	**GP03-09**	**GP04-09**	**GP05-09**
	Sample Name:	**SVA-38443-081418-GL-004**	**SVA-38443-081418-GL-002**	**SVA-38443-081418-GL-003**
	Sample Date:	**08/14/2018**	**08/14/2018**	**08/14/2018**
Parameters	**Unit**			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/m3	33	2.1 J	2.4
1,1,2,2-Tetrachloroethane	µg/m3	0.42 U	4.2 U	0.42 U
1,1,2-Trichloroethane	µg/m3	0.29 U	2.9 U	0.29 U
1,1-Dichloroethane	µg/m3	4.7	29	0.11 U
1,1-Dichloroethene	µg/m3	0.13 U	1.3 U	0.13 U
1,2,4-Trichlorobenzene	µg/m3	0.73 UJ	7.3 UJ	0.73 UJ
1,2,4-Trimethylbenzene	µg/m3	17	19	16
1,2-Dibromoethane (Ethylene dibromide)	µg/m3	0.34 U	3.4 U	0.34 U
1,2-Dichlorobenzene	µg/m3	0.42 U	4.2 U	0.42 U
1,2-Dichloroethane	µg/m3	0.19 U	1.9 U	0.19 U
1,2-Dichloropropane	µg/m3	0.24 U	2.4 U	0.24 U
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m3	0.22 U	2.2 U	0.22 J
1,3,5-Trimethylbenzene	µg/m3	4.8	5.7 J	4.4
1,3-Butadiene	µg/m3	0.14 U	1.4 U	0.14 U
1,3-Dichlorobenzene	µg/m3	0.39 U	3.9 U	0.39 U
1,4-Dichlorobenzene	µg/m3	0.38 U	3.8 U	0.38 U
1,4-Dioxane	µg/m3	0.29 U	2.9 U	0.29 U
2,2,4-Trimethylpentane	µg/m3	0.18 U	26	0.18 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m3	9.8	24 J	10
2-Chlorotoluene	µg/m3	0.33 U	3.3 U	0.33 U
2-Hexanone	µg/m3	1.9 J	2.4 U	1.5 J
2-Phenylbutane (sec-Butylbenzene)	µg/m3	0.35 U	3.5 U	0.35 U
4-Ethyl toluene	µg/m3	5.7	6.5 J	5.3
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/m3	0.86 J	8.0 U	1.4 J
Acetone	µg/m3	100	460	78
Allyl chloride	µg/m3	0.15 U	1.5 U	0.15 U
Benzene	µg/m3	0.57 J	3.0 J	0.41 J
Benzyl chloride	µg/m3	0.40 U	4.0 U	0.40 U
Bromodichloromethane	µg/m3	0.29 U	2.9 U	0.29 U
Bromoform	µg/m3	0.50 U	5.0 U	0.50 U
Bromomethane (Methyl bromide)	µg/m3	0.35 J	1.2 U	0.19 J

Table 2

Analytical Results Summary
Soil Vapor Sampling
South Dayton Dump and Landfill
Illinois Tool Works, Inc.
Moraine, Ohio
August 2018

	Location ID:	**GP03-09**	**GP04-09**	**GP05-09**
	Sample Name:	**SVA-38443-081418-GL-004**	**SVA-38443-081418-GL-002**	**SVA-38443-081418-GL-003**
	Sample Date:	**08/14/2018**	**08/14/2018**	**08/14/2018**
Parameters	**Unit**			
Volatile Organic Compounds				
Butane	µg/m3	0.81 J	610	0.74 J
Carbon disulfide	µg/m3	26	66	15
Carbon tetrachloride	µg/m3	0.24 U	2.4 U	0.24 U
Chlorobenzene	µg/m3	0.23 U	2.3 U	0.23 U
Chlorodifluoromethane	µg/m3	0.52 J	32	1.1
Chloroethane	µg/m3	0.53	3.1 J	0.27 J
Chloroform (Trichloromethane)	µg/m3	18	1.9 U	0.19 U
Chloromethane (Methyl chloride)	µg/m3	1.2	3.3 U	0.45 J
cis-1,2-Dichloroethene	µg/m3	0.93	2.4 U	0.24 U
cis-1,3-Dichloropropene	µg/m3	0.34 U	3.4 U	0.34 U
Cyclohexane	µg/m3	0.68 J	8.2 J	0.41 J
Cymene (p-Isopropyltoluene)	µg/m3	0.46 J	3.1 U	0.44 J
Dibromochloromethane	µg/m3	0.36 U	3.6 U	0.36 U
Dichlorodifluoromethane (CFC-12)	µg/m3	1.1	9.8	570
Ethylbenzene	µg/m3	3.2	24	2.9
Hexachlorobutadiene	µg/m3	0.83 UJ	8.3 UJ	0.83 UJ
Hexane	µg/m3	0.92 J	22	0.94 J
Isopropyl alcohol	µg/m3	2.3 J	8.1 J	4.6 J
Isopropyl benzene	µg/m3	0.29 U	2.9 U	0.29 U
m&p-Xylenes	µg/m3	15	84	13
Methyl methacrylate	µg/m3	0.32 U	3.2 U	0.32 U
Methyl tert butyl ether (MTBE)	µg/m3	0.61 U	6.1 U	0.61 U
Methylene chloride	µg/m3	1.2 J	11 U	1.1 J
N-Butylbenzene	µg/m3	3.5	2.8 J	3.3
N-Heptane	µg/m3	0.57 J	5.0 J	0.54 J
N-Propylbenzene	µg/m3	3.0	5.0 J	2.7
Naphthalene	µg/m3	1.1 J	4.7 UJ	1.1 J
o-Xylene	µg/m3	6.0	28	5.4
Styrene	µg/m3	3.5	2.5 U	3.2
tert-Butyl alcohol	µg/m3	2.3 J	8.0 J	7.4
tert-Butylbenzene	µg/m3	0.36 U	3.6 U	0.36 U

Table 2

Analytical Results Summary
Soil Vapor Sampling
South Dayton Dump and Landfill
Illinois Tool Works, Inc.
Moraine, Ohio
August 2018

Location ID:		**GP03-09**	**GP04-09**	**GP05-09**
Sample Name:		**SVA-38443-081418-GL-004**	**SVA-38443-081418-GL-002**	**SVA-38443-081418-GL-003**
Sample Date:		**08/14/2018**	**08/14/2018**	**08/14/2018**
Parameters	**Unit**			
Volatile Organic Compounds				
Tetrachloroethene	µg/m3	550	2.7 U	7.0
Tetrahydrofuran	µg/m3	1.3 J	1.9 U	1.2 J
Toluene	µg/m3	15	65	13
trans-1,2-Dichloroethene	µg/m3	0.20 U	2.0 U	0.20 U
trans-1,3-Dichloropropene	µg/m3	0.22 U	2.2 U	0.22 U
Trichloroethene	µg/m3	120	1.9 U	0.19 U
Trichlorofluoromethane (CFC-11)	µg/m3	2.6	1.3 U	4.6
Trifluorotrichloroethane (CFC-113)	µg/m3	0.72 J	2.4 U	0.60 J
Vinyl bromide (Bromoethene)	µg/m3	0.15 U	1.5 U	0.15 U
Vinyl chloride	µg/m3	0.18 U	1.8 U	0.18 U

Notes:

U - Not detected at the associated reporting limit
J - Estimated concentration
UJ - Not detected; associated reporting limit is estimated

Table 2

Analytical Results Summary
Soil Vapor Sampling
South Dayton Dump and Landfill
Illinois Tool Works, Inc.
Moraine, Ohio
August 2018

	Location ID:	**GP06-09**	**GP07-18**	**GP09-09**
	Sample Name:	**SVA-38443-082118-GL-019**	**SVA-38443-082118-GL-018**	**SVA-38443-082118-GL-021**
	Sample Date:	**08/21/2018**	**08/21/2018**	**08/21/2018**
Parameters	**Unit**			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/m3	0.49 J	3700 U	4.1 J
1,1,2,2-Tetrachloroethane	µg/m3	0.42 U	9500 U	4.2 U
1,1,2-Trichloroethane	µg/m3	0.29 U	6700 U	2.9 U
1,1-Dichloroethane	µg/m3	0.11 U	2400 U	1.1 U
1,1-Dichloroethene	µg/m3	0.13 U	3000 U	1.3 U
1,2,4-Trichlorobenzene	µg/m3	0.73 UJ	16000 UJ	7.3 UJ
1,2,4-Trimethylbenzene	µg/m3	8.9	8400 J	12
1,2-Dibromoethane (Ethylene dibromide)	µg/m3	0.34 U	7600 U	3.4 U
1,2-Dichlorobenzene	µg/m3	0.42 U	9500 U	4.2 U
1,2-Dichloroethane	µg/m3	0.89	4300 U	1.9 U
1,2-Dichloropropane	µg/m3	0.24 U	5400 U	2.4 U
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m3	0.22 U	5100 U	2.2 U
1,3,5-Trimethylbenzene	µg/m3	2.5	7200 U	4.5 J
1,3-Butadiene	µg/m3	0.14 U	3200 U	1.4 U
1,3-Dichlorobenzene	µg/m3	0.63 J	8800 U	3.9 U
1,4-Dichlorobenzene	µg/m3	0.38 U	8700 U	3.8 U
1,4-Dioxane	µg/m3	0.29 U	6500 U	2.9 U
2,2,4-Trimethylpentane	µg/m3	17	1800000	20 J
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m3	11	13000 U	13 J
2-Chlorotoluene	µg/m3	0.33 U	7400 U	3.3 U
2-Hexanone	µg/m3	2.1	5400 U	2.4 U
2-Phenylbutane (sec-Butylbenzene)	µg/m3	0.35 U	7900 U	3.5 U
4-Ethyl toluene	µg/m3	2.1	7300 U	4.0 J
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/m3	1.8 J	18000 U	8.0 U
Acetone	µg/m3	69 J	75000 UJ	95 J
Allyl chloride	µg/m3	0.15 U	3400 U	1.5 U
Benzene	µg/m3	1.8	110000	2.5 J
Benzyl chloride	µg/m3	0.40 U	9100 U	4.0 U
Bromodichloromethane	µg/m3	0.29 U	6700 U	2.9 U
Bromoform	µg/m3	0.50 U	11000 U	5.0 U
Bromomethane (Methyl bromide)	µg/m3	0.14 J	2800 U	1.2 U

Table 2

Analytical Results Summary
Soil Vapor Sampling
South Dayton Dump and Landfill
Illinois Tool Works, Inc.
Moraine, Ohio
August 2018

	Location ID:	**GP06-09**	**GP07-18**	**GP09-09**
	Sample Name:	**SVA-38443-082118-GL-019**	**SVA-38443-082118-GL-018**	**SVA-38443-082118-GL-021**
	Sample Date:	**08/21/2018**	**08/21/2018**	**08/21/2018**
Parameters	**Unit**			
Volatile Organic Compounds				
Butane	µg/m3	0.72 J	6200 J	1.8 J
Carbon disulfide	µg/m3	13	2200 U	34
Carbon tetrachloride	µg/m3	0.24 U	5400 U	2.4 U
Chlorobenzene	µg/m3	0.23 U	5100 U	2.3 U
Chlorodifluoromethane	µg/m3	5.6	3000 U	4.1 J
Chloroethane	µg/m3	0.092 U	2100 U	0.92 U
Chloroform (Trichloromethane)	µg/m3	0.38 J	4200 U	1.9 U
Chloromethane (Methyl chloride)	µg/m3	0.55 J	7500 U	3.3 U
cis-1,2-Dichloroethene	µg/m3	0.24 U	5400 U	2.4 U
cis-1,3-Dichloropropene	µg/m3	0.34 U	7600 U	3.4 U
Cyclohexane	µg/m3	2.5	230000	2.5 J
Cymene (p-Isopropyltoluene)	µg/m3	0.40 J	7100 U	3.1 U
Dibromochloromethane	µg/m3	0.36 U	8100 U	3.6 U
Dichlorodifluoromethane (CFC-12)	µg/m3	1.2	7600 U	3.6 J
Ethylbenzene	µg/m3	2.8	140000	11
Hexachlorobutadiene	µg/m3	0.83 UJ	19000 UJ	8.3 UJ
Hexane	µg/m3	15	630000	3.5 J
Isopropyl alcohol	µg/m3	57	5200 U	140
Isopropyl benzene	µg/m3	1.4 J	9800 J	4.4 J
m&p-Xylenes	µg/m3	12	590000	47
Methyl methacrylate	µg/m3	0.32 U	7300 U	3.2 U
Methyl tert butyl ether (MTBE)	µg/m3	0.61 U	14000 U	6.1 U
Methylene chloride	µg/m3	7.0	25000 U	14 J
N-Butylbenzene	µg/m3	1.8 J	5700 U	2.5 U
N-Heptane	µg/m3	12	1100000	14 J
N-Propylbenzene	µg/m3	1.2 J	6200 U	2.8 U
Naphthalene	µg/m3	0.79 J	11000 UJ	4.7 UJ
o-Xylene	µg/m3	4.9	180000	20
Styrene	µg/m3	1.2	5600 U	2.5 U
tert-Butyl alcohol	µg/m3	3.3 J	2600 U	5.1 J
tert-Butylbenzene	µg/m3	0.36 U	8200 U	3.6 U

Table 2

Analytical Results Summary
Soil Vapor Sampling
South Dayton Dump and Landfill
Illinois Tool Works, Inc.
Moraine, Ohio
August 2018

Location ID:		**GP06-09**	**GP07-18**	**GP09-09**
Sample Name:		**SVA-38443-082118-GL-019**	**SVA-38443-082118-GL-018**	**SVA-38443-082118-GL-021**
Sample Date:		**08/21/2018**	**08/21/2018**	**08/21/2018**
Parameters	**Unit**			
Volatile Organic Compounds				
Tetrachloroethene	µg/m3	22	6100 U	26
Tetrahydrofuran	µg/m3	0.19 U	4200 U	4.7 J
Toluene	µg/m3	23	1700000	38
trans-1,2-Dichloroethene	µg/m3	0.59 J	4500 U	2.2 J
trans-1,3-Dichloropropene	µg/m3	0.22 U	4900 U	2.2 U
Trichloroethene	µg/m3	0.28 J	4400 U	690
Trichlorofluoromethane (CFC-11)	µg/m3	8.7	3100 U	2.9 J
Trifluorotrichloroethane (CFC-113)	µg/m3	0.60 J	5400 U	2.4 U
Vinyl bromide (Bromoethene)	µg/m3	0.15 U	3500 U	1.5 U
Vinyl chloride	µg/m3	0.18 U	4100 U	1.8 U

Notes:

U - Not detected at the associated reporting limit
J - Estimated concentration
UJ - Not detected; associated reporting limit is estimated

Table 2

Analytical Results Summary
Soil Vapor Sampling
South Dayton Dump and Landfill
Illinois Tool Works, Inc.
Moraine, Ohio
August 2018

	Location ID:	**GP10-09**	**GP11-09**	**GP12-09**
	Sample Name:	**SVA-38443-082118-GL-020**	**SVA-38443-081518-GL-012**	**SVA-38443-082018-GL-013**
	Sample Date:	**08/21/2018**	**08/15/2018**	**08/20/2018**
Parameters	**Unit**			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/m3	4.5	2.6	1.6 U
1,1,2,2-Tetrachloroethane	µg/m3	1.0 U	0.42 U	4.2 U
1,1,2-Trichloroethane	µg/m3	0.74 U	0.29 U	2.9 U
1,1-Dichloroethane	µg/m3	2.9	0.11 U	1.1 U
1,1-Dichloroethene	µg/m3	0.34 U	0.13 U	1.3 U
1,2,4-Trichlorobenzene	µg/m3	1.8 UJ	0.73 UJ	7.3 UJ
1,2,4-Trimethylbenzene	µg/m3	11	13	7.8 J
1,2-Dibromoethane (Ethylene dibromide)	µg/m3	0.85 U	0.34 U	3.4 U
1,2-Dichlorobenzene	µg/m3	1.1 U	0.42 U	4.2 U
1,2-Dichloroethane	µg/m3	0.48 U	0.19 U	1.9 U
1,2-Dichloropropane	µg/m3	0.60 U	0.24 U	2.4 U
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m3	0.99 J	0.22 U	2.2 U
1,3,5-Trimethylbenzene	µg/m3	2.9	3.7	3.2 U
1,3-Butadiene	µg/m3	0.35 U	0.14 U	1.4 U
1,3-Dichlorobenzene	µg/m3	4.2	0.39 U	3.9 U
1,4-Dichlorobenzene	µg/m3	0.96 U	0.38 U	3.8 U
1,4-Dioxane	µg/m3	0.72 U	0.29 U	2.9 U
2,2,4-Trimethylpentane	µg/m3	2.1 J	0.18 U	1.8 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m3	12	4.7	7.8 J
2-Chlorotoluene	µg/m3	1.5 J	0.33 U	3.3 U
2-Hexanone	µg/m3	1.7 J	0.61 J	4.1 J
2-Phenylbutane (sec-Butylbenzene)	µg/m3	0.88 U	0.35 U	3.5 U
4-Ethyl toluene	µg/m3	2.6 J	3.4	3.2 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/m3	2.0 U	2.7	8.0 U
Acetone	µg/m3	96	41	130
Allyl chloride	µg/m3	0.38 U	0.15 U	1.5 U
Benzene	µg/m3	1.7	0.39 J	1.8 U
Benzyl chloride	µg/m3	1.0 U	0.40 U	4.0 U
Bromodichloromethane	µg/m3	0.74 U	0.29 U	2.9 U
Bromoform	µg/m3	1.2 U	0.50 U	5.0 U
Bromomethane (Methyl bromide)	µg/m3	0.31 U	0.20 J	1.2 U

Table 2

Analytical Results Summary
Soil Vapor Sampling
South Dayton Dump and Landfill
Illinois Tool Works, Inc.
Moraine, Ohio
August 2018

	Location ID:	**GP10-09**	**GP11-09**	**GP12-09**
	Sample Name:	**SVA-38443-082118-GL-020**	**SVA-38443-081518-GL-012**	**SVA-38443-082018-GL-013**
	Sample Date:	**08/21/2018**	**08/15/2018**	**08/20/2018**
Parameters	**Unit**			
Volatile Organic Compounds				
Butane	µg/m3	3.1	1.2	1.7 U
Carbon disulfide	µg/m3	4.7	36	31
Carbon tetrachloride	µg/m3	0.60 U	0.24 U	2.4 U
Chlorobenzene	µg/m3	0.56 U	0.23 U	2.3 U
Chlorodifluoromethane	µg/m3	5.3	2.0	6.0 J
Chloroethane	µg/m3	0.23 U	0.46 J	0.96 J
Chloroform (Trichloromethane)	µg/m3	0.46 U	0.19 U	1.9 U
Chloromethane (Methyl chloride)	µg/m3	0.83 U	3.4	3.3 J
cis-1,2-Dichloroethene	µg/m3	3.2	0.24 U	2.4 U
cis-1,3-Dichloropropene	µg/m3	0.84 U	0.34 U	3.4 U
Cyclohexane	µg/m3	1.1 J	0.67 J	1.4 U
Cymene (p-Isopropyltoluene)	µg/m3	0.78 U	0.39 J	3.1 U
Dibromochloromethane	µg/m3	0.89 U	0.36 U	3.6 U
Dichlorodifluoromethane (CFC-12)	µg/m3	9.0	1.2	3.7 J
Ethylbenzene	µg/m3	3.4	2.4	3.0 U
Hexachlorobutadiene	µg/m3	2.1 UJ	0.83 UJ	8.3 UJ
Hexane	µg/m3	1.7 J	1.1 J	1.1 U
Isopropyl alcohol	µg/m3	160	2.5 J	27 J
Isopropyl benzene	µg/m3	2.6 J	0.68 J	2.9 U
m&p-Xylenes	µg/m3	13	11	7.4 J
Methyl methacrylate	µg/m3	0.81 U	1.4 J	3.2 U
Methyl tert butyl ether (MTBE)	µg/m3	1.5 U	0.61 U	6.1 U
Methylene chloride	µg/m3	3.6 J	2.3	11 U
N-Butylbenzene	µg/m3	2.4 J	2.7	2.5 U
N-Heptane	µg/m3	3.4 J	0.50 J	1.9 U
N-Propylbenzene	µg/m3	1.5 J	2.2	2.8 U
Naphthalene	µg/m3	1.5 J	1.0 J	4.7 UJ
o-Xylene	µg/m3	5.5	4.5	2.9 J
Styrene	µg/m3	1.7 J	2.2	2.5 U
tert-Butyl alcohol	µg/m3	8.5 J	1.1 J	11 J
tert-Butylbenzene	µg/m3	0.91 U	0.36 U	3.6 U

Table 2

Analytical Results Summary
Soil Vapor Sampling
South Dayton Dump and Landfill
Illinois Tool Works, Inc.
Moraine, Ohio
August 2018

Location ID:		**GP10-09**	**GP11-09**	**GP12-09**
Sample Name:		**SVA-38443-082118-GL-020**	**SVA-38443-081518-GL-012**	**SVA-38443-082018-GL-013**
Sample Date:		**08/21/2018**	**08/15/2018**	**08/20/2018**
Parameters	**Unit**			
Volatile Organic Compounds				
Tetrachloroethene	µg/m3	13	1.1 J	92
Tetrahydrofuran	µg/m3	3.7 J	0.88 J	1.9 U
Toluene	µg/m3	13	9.8	4.5 U
trans-1,2-Dichloroethene	µg/m3	1.4 J	0.20 U	2.0 U
trans-1,3-Dichloropropene	µg/m3	0.54 U	0.22 U	2.2 U
Trichloroethene	µg/m3	34	0.19 U	690
Trichlorofluoromethane (CFC-11)	µg/m3	0.76 J	2.4	2.0 J
Trifluorotrichloroethane (CFC-113)	µg/m3	1.5 J	0.62 J	2.4 U
Vinyl bromide (Bromoethene)	µg/m3	0.38 U	0.15 U	1.5 U
Vinyl chloride	µg/m3	1.7	0.61	1.8 U

Notes:

U - Not detected at the associated reporting limit
J - Estimated concentration
UJ - Not detected; associated reporting limit is estimated

Table 2

Analytical Results Summary
Soil Vapor Sampling
South Dayton Dump and Landfill
Illinois Tool Works, Inc.
Moraine, Ohio
August 2018

	Location ID:	**GP13-09**	**GP14-09**	**GP14-09**
	Sample Name:	**SVA-38443-082018-GL-014**	**SVA-38443-082018-GL-015**	**SVA-38443-082018-GL-016**
	Sample Date:	**08/20/2018**	**08/20/2018**	**08/20/2018**
				Duplicate
Parameters	**Unit**			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/m3	14	1.3 J	1.3 J
1,1,2,2-Tetrachloroethane	µg/m3	0.42 U	1.7 U	1.7 U
1,1,2-Trichloroethane	µg/m3	0.29 U	1.2 U	1.2 U
1,1-Dichloroethane	µg/m3	310	1.5 J	1.7 J
1,1-Dichloroethene	µg/m3	0.32 J	0.54 U	0.54 U
1,2,4-Trichlorobenzene	µg/m3	0.73 UJ	2.9 UJ	2.9 UJ
1,2,4-Trimethylbenzene	µg/m3	8.4	5.1	5.0
1,2-Dibromoethane (Ethylene dibromide)	µg/m3	0.34 U	1.4 U	1.4 U
1,2-Dichlorobenzene	µg/m3	0.42 U	1.7 U	1.7 U
1,2-Dichloroethane	µg/m3	0.19 U	0.76 U	0.76 U
1,2-Dichloropropane	µg/m3	0.24 U	0.96 U	0.96 U
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m3	8.6	0.89 U	0.89 U
1,3,5-Trimethylbenzene	µg/m3	2.2	1.4 J	1.3 J
1,3-Butadiene	µg/m3	0.14 U	0.57 U	0.57 U
1,3-Dichlorobenzene	µg/m3	0.39 U	1.6 U	1.6 U
1,4-Dichlorobenzene	µg/m3	0.38 U	1.5 U	1.5 U
1,4-Dioxane	µg/m3	0.29 U	1.2 U	1.2 U
2,2,4-Trimethylpentane	µg/m3	0.44 J	0.73 U	0.73 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m3	5.9	5.9 J	2.6 J
2-Chlorotoluene	µg/m3	0.33 U	1.3 U	1.3 U
2-Hexanone	µg/m3	0.97 J	0.95 U	0.95 U
2-Phenylbutane (sec-Butylbenzene)	µg/m3	0.35 U	1.4 U	1.4 U
4-Ethyl toluene	µg/m3	1.9 J	1.3 U	1.3 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/m3	1.1 J	3.2 U	3.2 U
Acetone	µg/m3	58	54 J	28 J
Allyl chloride	µg/m3	0.15 U	0.60 U	0.60 U
Benzene	µg/m3	0.32 J	0.72 U	0.72 U
Benzyl chloride	µg/m3	0.40 U	1.6 U	1.6 U
Bromodichloromethane	µg/m3	0.29 U	1.2 U	1.2 U
Bromoform	µg/m3	0.50 U	2.0 U	2.0 U
Bromomethane (Methyl bromide)	µg/m3	0.12 U	0.50 U	0.50 U

Table 2

Analytical Results Summary
Soil Vapor Sampling
South Dayton Dump and Landfill
Illinois Tool Works, Inc.
Moraine, Ohio
August 2018

	Location ID:	**GP13-09**	**GP14-09**	**GP14-09**
	Sample Name:	**SVA-38443-082018-GL-014**	**SVA-38443-082018-GL-015**	**SVA-38443-082018-GL-016**
	Sample Date:	**08/20/2018**	**08/20/2018**	**08/20/2018**
				Duplicate
Parameters	**Unit**			
Volatile Organic Compounds				
Butane	µg/m3	13	1.1 J	0.69 U
Carbon disulfide	µg/m3	14	5.9 J	4.2 J
Carbon tetrachloride	µg/m3	0.24 U	0.96 U	0.96 U
Chlorobenzene	µg/m3	0.23 U	0.90 U	0.90 U
Chlorodifluoromethane	µg/m3	0.94	7.3	5.4
Chloroethane	µg/m3	0.97	0.37 U	0.37 U
Chloroform (Trichloromethane)	µg/m3	3.6	7.6	7.4
Chloromethane (Methyl chloride)	µg/m3	0.46 J	1.3 U	1.3 U
cis-1,2-Dichloroethene	µg/m3	0.24 U	3.5	3.1 J
cis-1,3-Dichloropropene	µg/m3	0.34 U	1.3 U	1.3 U
Cyclohexane	µg/m3	3.7	0.55 U	0.55 U
Cymene (p-Isopropyltoluene)	µg/m3	0.31 U	1.3 U	1.3 U
Dibromochloromethane	µg/m3	0.36 U	1.4 U	1.4 U
Dichlorodifluoromethane (CFC-12)	µg/m3	10	2.3 J	2.3 J
Ethylbenzene	µg/m3	1.2	1.2 U	1.2 U
Hexachlorobutadiene	µg/m3	0.83 UJ	3.3 UJ	3.3 UJ
Hexane	µg/m3	1.1 J	0.45 U	0.73 J
Isopropyl alcohol	µg/m3	1.6 J	4.2 J	2.5 J
Isopropyl benzene	µg/m3	0.29 U	1.2 U	1.2 U
m&p-Xylenes	µg/m3	5.1	3.0 J	2.8 J
Methyl methacrylate	µg/m3	0.32 U	1.3 U	1.3 U
Methyl tert butyl ether (MTBE)	µg/m3	0.61 U	2.5 U	2.5 U
Methylene chloride	µg/m3	2.4	4.4 U	5.0 J
N-Butylbenzene	µg/m3	2.0 J	1.3 J	1.3 J
N-Heptane	µg/m3	0.44 J	0.77 U	0.77 U
N-Propylbenzene	µg/m3	1.1 J	1.1 U	1.1 U
Naphthalene	µg/m3	1.0 J	1.9 UJ	1.9 UJ
o-Xylene	µg/m3	2.6	1.5 J	1.6 J
Styrene	µg/m3	0.82 J	0.99 U	0.99 U
tert-Butyl alcohol	µg/m3	4.4 J	2.6 J	0.64 J
tert-Butylbenzene	µg/m3	0.36 U	1.4 U	1.4 U

Table 2

Analytical Results Summary
Soil Vapor Sampling
South Dayton Dump and Landfill
Illinois Tool Works, Inc.
Moraine, Ohio
August 2018

	Location ID:	**GP13-09**	**GP14-09**	**GP14-09**
	Sample Name:	**SVA-38443-082018-GL-014**	**SVA-38443-082018-GL-015**	**SVA-38443-082018-GL-016**
	Sample Date:	**08/20/2018**	**08/20/2018**	**08/20/2018**
				Duplicate
Parameters	**Unit**			
Volatile Organic Compounds				
Tetrachloroethene	µg/m3	1.3 J	330	370
Tetrahydrofuran	µg/m3	0.57 J	0.74 U	1.0 J
Toluene	µg/m3	4.8	1.9 J	1.9 J
trans-1,2-Dichloroethene	µg/m3	0.20 U	1.0 J	1.0 J
trans-1,3-Dichloropropene	µg/m3	0.22 U	0.87 U	0.87 U
Trichloroethene	µg/m3	1.3	520	510
Trichlorofluoromethane (CFC-11)	µg/m3	0.88 J	1.6 J	1.7 J
Trifluorotrichloroethane (CFC-113)	µg/m3	6.6	0.95 U	0.95 U
Vinyl bromide (Bromoethene)	µg/m3	0.15 U	0.61 U	0.61 U
Vinyl chloride	µg/m3	3.1	0.73 U	0.73 U

Notes:

U - Not detected at the associated reporting limit
J - Estimated concentration
UJ - Not detected; associated reporting limit is estimated

Table 2

Analytical Results Summary
Soil Vapor Sampling
South Dayton Dump and Landfill
Illinois Tool Works, Inc.
Moraine, Ohio
August 2018

	Location ID:	**GP15-09**	**GP16-09**	**GP19-18**
	Sample Name:	**SVA-38443-082018-GL-017**	**SVA-38443-082318-GL-028**	**SVA-38443-082318-GL-034**
	Sample Date:	**08/20/2018**	**08/23/2018**	**08/23/2018**
Parameters	**Unit**			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/m3	8.5 J	17 U	4.8 U
1,1,2,2-Tetrachloroethane	µg/m3	12 U	43 U	12 U
1,1,2-Trichloroethane	µg/m3	8.7 U	30 U	8.7 U
1,1-Dichloroethane	µg/m3	3200	55 J	3.1 U
1,1-Dichloroethene	µg/m3	6.7 J	14 U	11 J
1,2,4-Trichlorobenzene	µg/m3	22 UJ	75 UJ	22 U
1,2,4-Trimethylbenzene	µg/m3	11 J	32 U	9.2 U
1,2-Dibromoethane (Ethylene dibromide)	µg/m3	10 U	35 U	10 U
1,2-Dichlorobenzene	µg/m3	12 U	43 U	12 U
1,2-Dichloroethane	µg/m3	5.6 U	20 U	5.6 U
1,2-Dichloropropane	µg/m3	7.1 U	25 U	7.1 U
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m3	6.6 U	23 U	6.6 U
1,3,5-Trimethylbenzene	µg/m3	9.5 U	33 U	9.5 U
1,3-Butadiene	µg/m3	4.2 U	15 U	4.2 U
1,3-Dichlorobenzene	µg/m3	12 U	40 U	12 U
1,4-Dichlorobenzene	µg/m3	11 U	40 U	11 U
1,4-Dioxane	µg/m3	8.5 U	30 U	8.5 U
2,2,4-Trimethylpentane	µg/m3	5.4 U	3600	190
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m3	17 U	61 U	35 J
2-Chlorotoluene	µg/m3	9.7 U	34 U	9.7 U
2-Hexanone	µg/m3	7.0 U	24 U	7.0 U
2-Phenylbutane (sec-Butylbenzene)	µg/m3	10 U	36 U	10 U
4-Ethyl toluene	µg/m3	9.6 U	33 U	9.6 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/m3	24 U	82 U	24 U
Acetone	µg/m3	98 U	340 U	340 J
Allyl chloride	µg/m3	4.4 U	15 U	4.4 U
Benzene	µg/m3	5.3 U	18 U	45
Benzyl chloride	µg/m3	12 U	42 U	12 U
Bromodichloromethane	µg/m3	8.7 U	30 U	8.7 U
Bromoform	µg/m3	15 U	51 U	15 U
Bromomethane (Methyl bromide)	µg/m3	3.7 U	13 U	3.7 U

Table 2

Analytical Results Summary
Soil Vapor Sampling
South Dayton Dump and Landfill
Illinois Tool Works, Inc.
Moraine, Ohio
August 2018

	Location ID:	**GP15-09**	**GP16-09**	**GP19-18**
	Sample Name:	**SVA-38443-082018-GL-017**	**SVA-38443-082318-GL-028**	**SVA-38443-082318-GL-034**
	Sample Date:	**08/20/2018**	**08/23/2018**	**08/23/2018**
Parameters	**Unit**			
Volatile Organic Compounds				
Butane	µg/m3	5.1 U	6800	940
Carbon disulfide	µg/m3	26 J	11 J	40 J
Carbon tetrachloride	µg/m3	9.2 J	25 U	7.1 U
Chlorobenzene	µg/m3	6.7 U	23 U	6.7 U
Chlorodifluoromethane	µg/m3	7.7 J	110	3.9 U
Chloroethane	µg/m3	12 J	9.5 U	9.2 J
Chloroform (Trichloromethane)	µg/m3	17 J	19 U	5.5 U
Chloromethane (Methyl chloride)	µg/m3	9.8 U	34 U	9.8 U
cis-1,2-Dichloroethene	µg/m3	1400	24 U	1700
cis-1,3-Dichloropropene	µg/m3	9.9 U	35 U	9.9 U
Cyclohexane	µg/m3	4.1 U	49 J	160
Cymene (p-Isopropyltoluene)	µg/m3	9.3 U	32 U	9.3 U
Dibromochloromethane	µg/m3	11 U	37 U	11 U
Dichlorodifluoromethane (CFC-12)	µg/m3	10 U	35 U	10 U
Ethylbenzene	µg/m3	8.7 U	30 U	14 J
Hexachlorobutadiene	µg/m3	25 UJ	86 UJ	25 U
Hexane	µg/m3	3.3 U	210	340
Isopropyl alcohol	µg/m3	6.8 U	24 U	76 J
Isopropyl benzene	µg/m3	8.7 U	30 U	8.7 U
m&p-Xylenes	µg/m3	15 U	54 U	47
Methyl methacrylate	µg/m3	9.6 U	33 U	9.6 U
Methyl tert butyl ether (MTBE)	µg/m3	18 U	63 U	18 U
Methylene chloride	µg/m3	33 U	110 U	33 U
N-Butylbenzene	µg/m3	7.5 U	26 U	7.5 U
N-Heptane	µg/m3	5.7 U	20 U	330
N-Propylbenzene	µg/m3	8.1 U	28 U	8.1 U
Naphthalene	µg/m3	14 UJ	49 UJ	14 U
o-Xylene	µg/m3	7.8 U	27 U	18 J
Styrene	µg/m3	7.3 U	25 U	7.3 U
tert-Butyl alcohol	µg/m3	5.3 J	12 U	8.3 J
tert-Butylbenzene	µg/m3	11 U	37 U	11 U

Table 2

Analytical Results Summary
Soil Vapor Sampling
South Dayton Dump and Landfill
Illinois Tool Works, Inc.
Moraine, Ohio
August 2018

Location ID:		**GP15-09**	**GP16-09**	**GP19-18**
Sample Name:		**SVA-38443-082018-GL-017**	**SVA-38443-082318-GL-028**	**SVA-38443-082318-GL-034**
Sample Date:		**08/20/2018**	**08/23/2018**	**08/23/2018**
Parameters	**Unit**			
Volatile Organic Compounds				
Tetrachloroethene	µg/m3	25 J	28 U	8.0 U
Tetrahydrofuran	µg/m3	5.5 U	19 U	5.5 U
Toluene	µg/m3	13 U	47 U	71
trans-1,2-Dichloroethene	µg/m3	57	20 U	30
trans-1,3-Dichloropropene	µg/m3	6.4 U	22 U	6.4 U
Trichloroethene	µg/m3	3400	20 U	13 J
Trichlorofluoromethane (CFC-11)	µg/m3	4.0 U	14 U	4.0 U
Trifluorotrichloroethane (CFC-113)	µg/m3	7.0 U	24 U	7.0 U
Vinyl bromide (Bromoethene)	µg/m3	4.5 U	16 U	4.5 U
Vinyl chloride	µg/m3	14 J	370	2500

Notes:

U - Not detected at the associated reporting limit
J - Estimated concentration
UJ - Not detected; associated reporting limit is estimated

Table 2

Analytical Results Summary
Soil Vapor Sampling
South Dayton Dump and Landfill
Illinois Tool Works, Inc.
Moraine, Ohio
August 2018

	Location ID:	**Near GP19**	**GP20-18**	**GP21-09**
	Sample Name:	**SVA-38443-082318-GL-033**	**SVA-38443-082318-GL-030**	**SVA-38443-081418-GL-001**
	Sample Date:	**08/23/2018**	**08/23/2018**	**08/14/2018**
Parameters	**Unit**			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/m3	0.16 U	22 U	3.3 U
1,1,2,2-Tetrachloroethane	µg/m3	0.42 U	57 U	8.4 U
1,1,2-Trichloroethane	µg/m3	0.29 U	40 U	5.9 U
1,1-Dichloroethane	µg/m3	0.11 U	14 U	4.3 J
1,1-Dichloroethene	µg/m3	0.13 U	18 U	2.7 U
1,2,4-Trichlorobenzene	µg/m3	0.73 U	99 U	15 UJ
1,2,4-Trimethylbenzene	µg/m3	0.31 U	42 U	6.2 U
1,2-Dibromoethane (Ethylene dibromide)	µg/m3	0.34 U	46 U	6.8 U
1,2-Dichlorobenzene	µg/m3	0.42 U	57 U	8.4 U
1,2-Dichloroethane	µg/m3	0.19 U	26 U	3.8 U
1,2-Dichloropropane	µg/m3	0.24 U	33 U	4.8 U
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m3	0.22 U	30 U	4.5 U
1,3,5-Trimethylbenzene	µg/m3	0.32 U	43 U	6.4 U
1,3-Butadiene	µg/m3	0.14 U	19 U	2.8 U
1,3-Dichlorobenzene	µg/m3	0.39 U	53 U	7.8 U
1,4-Dichlorobenzene	µg/m3	0.38 U	52 U	7.7 U
1,4-Dioxane	µg/m3	0.73 J	39 U	5.8 U
2,2,4-Trimethylpentane	µg/m3	0.18 U	25 U	33 J
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m3	1.2 J	80 U	12 U
2-Chlorotoluene	µg/m3	0.33 U	44 U	6.5 U
2-Hexanone	µg/m3	0.24 U	32 U	4.8 U
2-Phenylbutane (sec-Butylbenzene)	µg/m3	0.35 U	48 U	7.0 U
4-Ethyl toluene	µg/m3	0.32 U	44 U	6.5 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/m3	4.3	110 U	16 U
Acetone	µg/m3	12	450 U	67 U
Allyl chloride	µg/m3	0.15 U	20 U	3.0 U
Benzene	µg/m3	0.45 J	24 U	15
Benzyl chloride	µg/m3	0.40 U	55 U	8.1 U
Bromodichloromethane	µg/m3	0.29 U	40 U	5.9 U
Bromoform	µg/m3	0.50 U	67 U	9.9 U
Bromomethane (Methyl bromide)	µg/m3	0.12 U	17 U	2.5 U

Table 2

Analytical Results Summary
Soil Vapor Sampling
South Dayton Dump and Landfill
Illinois Tool Works, Inc.
Moraine, Ohio
August 2018

	Location ID:	**Near GP19**	**GP20-18**	**GP21-09**
	Sample Name:	**SVA-38443-082318-GL-033**	**SVA-38443-082318-GL-030**	**SVA-38443-081418-GL-001**
	Sample Date:	**08/23/2018**	**08/23/2018**	**08/14/2018**
Parameters	**Unit**			
Volatile Organic Compounds				
Butane	µg/m3	1.0	24 U	1700
Carbon disulfide	µg/m3	0.26 J	13 U	13 J
Carbon tetrachloride	µg/m3	0.44 J	32 U	4.8 U
Chlorobenzene	µg/m3	0.23 U	31 U	4.5 U
Chlorodifluoromethane	µg/m3	1.7	18 U	84
Chloroethane	µg/m3	0.092 U	13 U	1.8 U
Chloroform (Trichloromethane)	µg/m3	0.19 U	25 U	3.7 U
Chloromethane (Methyl chloride)	µg/m3	1.1	45 U	6.6 U
cis-1,2-Dichloroethene	µg/m3	0.24 U	770	16
cis-1,3-Dichloropropene	µg/m3	0.34 U	46 U	6.7 U
Cyclohexane	µg/m3	0.14 U	19 U	35
Cymene (p-Isopropyltoluene)	µg/m3	0.31 U	43 U	6.3 U
Dibromochloromethane	µg/m3	0.36 U	49 U	7.2 U
Dichlorodifluoromethane (CFC-12)	µg/m3	1.3	46 U	6.7 U
Ethylbenzene	µg/m3	0.30 U	40 U	5.9 U
Hexachlorobutadiene	µg/m3	0.83 U	110 U	17 UJ
Hexane	µg/m3	0.72 J	15 U	52
Isopropyl alcohol	µg/m3	0.62 J	82 J	14 J
Isopropyl benzene	µg/m3	0.29 U	40 U	5.9 U
m&p-Xylenes	µg/m3	0.52 U	71 U	10 U
Methyl methacrylate	µg/m3	0.32 U	44 U	6.5 U
Methyl tert butyl ether (MTBE)	µg/m3	0.61 U	83 U	12 U
Methylene chloride	µg/m3	1.6 J	150 U	22 U
N-Butylbenzene	µg/m3	0.25 U	34 U	5.1 U
N-Heptane	µg/m3	0.22 J	26 U	4.0 J
N-Propylbenzene	µg/m3	0.28 U	37 U	5.5 U
Naphthalene	µg/m3	0.47 U	64 U	9.4 UJ
o-Xylene	µg/m3	0.26 U	36 U	5.3 U
Styrene	µg/m3	0.25 U	34 U	4.9 U
tert-Butyl alcohol	µg/m3	0.12 U	16 U	2.3 U
tert-Butylbenzene	µg/m3	0.36 U	49 U	7.2 U

Table 2

Analytical Results Summary
Soil Vapor Sampling
South Dayton Dump and Landfill
Illinois Tool Works, Inc.
Moraine, Ohio
August 2018

	Location ID:	**Near GP19**	**GP20-18**	**GP21-09**
	Sample Name:	**SVA-38443-082318-GL-033**	**SVA-38443-082318-GL-030**	**SVA-38443-081418-GL-001**
	Sample Date:	**08/23/2018**	**08/23/2018**	**08/14/2018**
Parameters	**Unit**			
Volatile Organic Compounds				
Tetrachloroethene	µg/m3	0.78 J	37 U	5.4 U
Tetrahydrofuran	µg/m3	0.19 U	25 U	3.7 U
Toluene	µg/m3	0.70 J	61 U	9.0 U
trans-1,2-Dichloroethene	µg/m3	0.20 U	37 J	4.0 U
trans-1,3-Dichloropropene	µg/m3	0.22 U	30 U	4.4 U
Trichloroethene	µg/m3	0.19 U	6700	3.9 U
Trichlorofluoromethane (CFC-11)	µg/m3	1.2	18 U	2.7 U
Trifluorotrichloroethane (CFC-113)	µg/m3	0.52 J	32 U	4.8 U
Vinyl bromide (Bromoethene)	µg/m3	0.15 U	21 U	3.1 U
Vinyl chloride	µg/m3	0.18 U	25 U	3.6 U

Notes:

U - Not detected at the associated reporting limit
J - Estimated concentration
UJ - Not detected; associated reporting limit is estimated

Table 2

Analytical Results Summary
Soil Vapor Sampling
South Dayton Dump and Landfill
Illinois Tool Works, Inc.
Moraine, Ohio
August 2018

Location ID:		**GP22-13**	**GP22-13**	**GP23-13**
Sample Name:		**SVA-38443-082318-GL-031**	**SVA-38443-082318-GL-032**	**SVA-38443-082218-GL-025**
Sample Date:		**08/23/2018**	**08/23/2018**	**08/22/2018**
			Duplicate	
Parameters	**Unit**			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/m3	0.27 J	0.26 J	1.6 J
1,1,2,2-Tetrachloroethane	µg/m3	0.42 U	0.42 U	1.7 U
1,1,2-Trichloroethane	µg/m3	0.29 U	0.29 U	1.2 U
1,1-Dichloroethane	µg/m3	1.7	1.7	0.42 U
1,1-Dichloroethene	µg/m3	1.7	1.7	0.54 U
1,2,4-Trichlorobenzene	µg/m3	0.73 U	0.73 U	2.9 U
1,2,4-Trimethylbenzene	µg/m3	1.6	1.5	3.0 J
1,2-Dibromoethane (Ethylene dibromide)	µg/m3	0.34 U	0.34 U	1.4 U
1,2-Dichlorobenzene	µg/m3	0.42 U	0.42 U	1.7 U
1,2-Dichloroethane	µg/m3	1.0	0.95	0.76 U
1,2-Dichloropropane	µg/m3	0.24 U	0.24 U	0.96 U
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m3	0.22 U	0.22 U	0.89 U
1,3,5-Trimethylbenzene	µg/m3	0.37 J	0.37 J	1.3 U
1,3-Butadiene	µg/m3	0.14 U	0.14 U	0.57 U
1,3-Dichlorobenzene	µg/m3	0.58 J	0.64 J	1.6 U
1,4-Dichlorobenzene	µg/m3	0.38 U	0.38 U	1.5 U
1,4-Dioxane	µg/m3	0.29 U	0.29 U	1.2 U
2,2,4-Trimethylpentane	µg/m3	0.18 U	0.18 U	1.2 J
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m3	13	12	17
2-Chlorotoluene	µg/m3	0.33 U	0.33 U	1.3 U
2-Hexanone	µg/m3	2.9	2.7	2.6 J
2-Phenylbutane (sec-Butylbenzene)	µg/m3	0.35 U	0.35 U	1.4 U
4-Ethyl toluene	µg/m3	0.32 U	0.32 J	1.3 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/m3	3.8	0.80 U	3.2 U
Acetone	µg/m3	66	56	77
Allyl chloride	µg/m3	0.15 U	0.15 U	0.60 U
Benzene	µg/m3	0.83	0.89	0.84 J
Benzyl chloride	µg/m3	0.40 U	0.40 U	1.6 U
Bromodichloromethane	µg/m3	0.29 U	0.29 U	1.2 U
Bromoform	µg/m3	0.50 U	0.50 U	2.0 U
Bromomethane (Methyl bromide)	µg/m3	0.12 U	0.30 J	0.98 J

Table 2

Analytical Results Summary
Soil Vapor Sampling
South Dayton Dump and Landfill
Illinois Tool Works, Inc.
Moraine, Ohio
August 2018

	Location ID:	**GP22-13**	**GP22-13**	**GP23-13**
	Sample Name:	**SVA-38443-082318-GL-031**	**SVA-38443-082318-GL-032**	**SVA-38443-082218-GL-025**
	Sample Date:	**08/23/2018**	**08/23/2018**	**08/22/2018**
			Duplicate	
Parameters	**Unit**			
Volatile Organic Compounds				
Butane	µg/m3	73	67	3.1 J
Carbon disulfide	µg/m3	7.6	8.5	14
Carbon tetrachloride	µg/m3	0.24 U	0.24 U	0.96 U
Chlorobenzene	µg/m3	0.37 J	0.38 J	0.90 U
Chlorodifluoromethane	µg/m3	1.5 J	7.2 J	1.8 J
Chloroethane	µg/m3	0.42 J	0.36 J	0.37 U
Chloroform (Trichloromethane)	µg/m3	0.37 J	0.36 J	1.8 J
Chloromethane (Methyl chloride)	µg/m3	0.33 U	0.33 U	1.8 J
cis-1,2-Dichloroethene	µg/m3	22	23	0.95 U
cis-1,3-Dichloropropene	µg/m3	0.34 U	0.34 U	1.3 U
Cyclohexane	µg/m3	10	10	0.55 U
Cymene (p-Isopropyltoluene)	µg/m3	0.31 U	0.31 U	1.3 U
Dibromochloromethane	µg/m3	0.36 U	0.36 U	1.4 U
Dichlorodifluoromethane (CFC-12)	µg/m3	1.2	1.1	2.6 J
Ethylbenzene	µg/m3	1.0	1.1	2.7 J
Hexachlorobutadiene	µg/m3	0.83 U	0.83 U	3.3 U
Hexane	µg/m3	6.4	7.5	1.2 J
Isopropyl alcohol	µg/m3	1.9 J	3.1 J	3.6 J
Isopropyl benzene	µg/m3	0.29 U	0.29 U	1.2 U
m&p-Xylenes	µg/m3	4.4	4.7	14
Methyl methacrylate	µg/m3	0.32 U	0.32 U	1.3 U
Methyl tert butyl ether (MTBE)	µg/m3	0.61 U	0.61 U	2.5 U
Methylene chloride	µg/m3	1.2 J	4.1 J	4.4 U
N-Butylbenzene	µg/m3	0.49 J	0.40 J	1.0 U
N-Heptane	µg/m3	1.9 J	2.3	1.5 J
N-Propylbenzene	µg/m3	0.28 U	0.28 U	1.1 U
Naphthalene	µg/m3	0.47 U	0.79 J	1.9 U
o-Xylene	µg/m3	1.3	1.2	5.1
Styrene	µg/m3	0.25 J	0.27 J	0.99 U
tert-Butyl alcohol	µg/m3	2.3 J	1.9 J	4.1 J
tert-Butylbenzene	µg/m3	1.8 J	1.7 J	1.4 U

Table 2

Analytical Results Summary
Soil Vapor Sampling
South Dayton Dump and Landfill
Illinois Tool Works, Inc.
Moraine, Ohio
August 2018

	Location ID:	**GP22-13**	**GP22-13**	**GP23-13**
	Sample Name:	**SVA-38443-082318-GL-031**	**SVA-38443-082318-GL-032**	**SVA-38443-082218-GL-025**
	Sample Date:	**08/23/2018**	**08/23/2018**	**08/22/2018**
			Duplicate	
Parameters	**Unit**			
Volatile Organic Compounds				
Tetrachloroethene	µg/m3	1.9	1.3 J	1.1 U
Tetrahydrofuran	µg/m3	0.19 U	0.19 U	0.74 U
Toluene	µg/m3	1.3	1.7	7.8
trans-1,2-Dichloroethene	µg/m3	3.5	3.5	1.8 J
trans-1,3-Dichloropropene	µg/m3	0.22 U	0.22 U	0.87 U
Trichloroethene	µg/m3	2.7	2.3	600
Trichlorofluoromethane (CFC-11)	µg/m3	0.13 U	0.36 J	7.3
Trifluorotrichloroethane (CFC-113)	µg/m3	0.24 U	0.24 U	0.95 U
Vinyl bromide (Bromoethene)	µg/m3	0.15 U	0.15 U	0.61 U
Vinyl chloride	µg/m3	42	38	0.73 U

Notes:

U - Not detected at the associated reporting limit
J - Estimated concentration
UJ - Not detected; associated reporting limit is estimated

Table 2

Analytical Results Summary
Soil Vapor Sampling
South Dayton Dump and Landfill
Illinois Tool Works, Inc.
Moraine, Ohio
August 2018

	Location ID:	**GP24A-13**	**GP24B-13**	**GP25-18**
	Sample Name:	**SVA-38443-082218-GL-024**	**SVA-38443-082218-GL-023**	**SVA-38443-081418-GL-006**
	Sample Date:	**08/22/2018**	**08/22/2018**	**08/14/2018**
Parameters	**Unit**			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/m3	2.2	0.69 J	3.8 J
1,1,2,2-Tetrachloroethane	µg/m3	0.42 U	0.42 U	8.4 U
1,1,2-Trichloroethane	µg/m3	0.29 U	0.29 U	5.9 U
1,1-Dichloroethane	µg/m3	0.11 U	0.11 U	29
1,1-Dichloroethene	µg/m3	0.13 U	0.13 U	24
1,2,4-Trichlorobenzene	µg/m3	0.73 U	0.73 UJ	15 UJ
1,2,4-Trimethylbenzene	µg/m3	2.6	1.6	12 J
1,2-Dibromoethane (Ethylene dibromide)	µg/m3	0.34 U	0.34 U	6.8 U
1,2-Dichlorobenzene	µg/m3	0.42 U	0.42 U	8.4 U
1,2-Dichloroethane	µg/m3	0.19 U	0.19 U	3.8 U
1,2-Dichloropropane	µg/m3	0.24 U	0.24 U	4.8 U
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m3	0.22 U	0.22 U	28
1,3,5-Trimethylbenzene	µg/m3	0.58 J	0.46 J	6.4 U
1,3-Butadiene	µg/m3	0.14 U	0.14 U	2.8 U
1,3-Dichlorobenzene	µg/m3	2.7	0.39 U	7.8 U
1,4-Dichlorobenzene	µg/m3	0.38 U	0.38 U	7.7 U
1,4-Dioxane	µg/m3	0.29 U	0.29 U	5.8 U
2,2,4-Trimethylpentane	µg/m3	0.41 J	1.2 J	10 J
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m3	18	5.3	12 U
2-Chlorotoluene	µg/m3	0.33 U	0.33 U	6.5 U
2-Hexanone	µg/m3	2.8	0.90 J	4.8 U
2-Phenylbutane (sec-Butylbenzene)	µg/m3	0.35 U	0.35 U	7.0 U
4-Ethyl toluene	µg/m3	0.59 J	0.52 J	6.5 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/m3	3.9	1.1 J	16 U
Acetone	µg/m3	75	22	67 U
Allyl chloride	µg/m3	0.15 U	0.15 U	3.0 U
Benzene	µg/m3	1.2	0.43 J	3.6 U
Benzyl chloride	µg/m3	0.40 U	0.40 U	8.1 U
Bromodichloromethane	µg/m3	0.29 U	0.29 U	5.9 U
Bromoform	µg/m3	0.50 U	0.50 U	9.9 U
Bromomethane (Methyl bromide)	µg/m3	0.18 J	0.12 U	2.5 U

Table 2

Analytical Results Summary
Soil Vapor Sampling
South Dayton Dump and Landfill
Illinois Tool Works, Inc.
Moraine, Ohio
August 2018

	Location ID:	**GP24A-13**	**GP24B-13**	**GP25-18**
	Sample Name:	**SVA-38443-082218-GL-024**	**SVA-38443-082218-GL-023**	**SVA-38443-081418-GL-006**
	Sample Date:	**08/22/2018**	**08/22/2018**	**08/14/2018**
Parameters	**Unit**			
Volatile Organic Compounds				
Butane	µg/m3	0.96	2.3	720
Carbon disulfide	µg/m3	14	12	28 J
Carbon tetrachloride	µg/m3	36	0.34 J	4.8 U
Chlorobenzene	µg/m3	0.23 J	0.23 U	4.7 J
Chlorodifluoromethane	µg/m3	1.8	17	45
Chloroethane	µg/m3	0.14 J	0.092 U	1.8 U
Chloroform (Trichloromethane)	µg/m3	0.29 J	0.19 U	3.7 U
Chloromethane (Methyl chloride)	µg/m3	0.67 J	0.47 J	6.6 U
cis-1,2-Dichloroethene	µg/m3	0.24 U	0.24 U	4.8 U
cis-1,3-Dichloropropene	µg/m3	0.34 U	0.34 U	6.7 U
Cyclohexane	µg/m3	0.14 U	0.53 J	24 J
Cymene (p-Isopropyltoluene)	µg/m3	0.31 U	0.31 U	6.3 U
Dibromochloromethane	µg/m3	0.36 U	0.36 U	7.2 U
Dichlorodifluoromethane (CFC-12)	µg/m3	1.5	1.2	12 J
Ethylbenzene	µg/m3	2.0	1.9	5.9 U
Hexachlorobutadiene	µg/m3	0.83 U	0.83 UJ	17 UJ
Hexane	µg/m3	0.76 J	4.7	38
Isopropyl alcohol	µg/m3	81	3.2 J	6.7 J
Isopropyl benzene	µg/m3	1.4 J	0.29 U	5.9 U
m&p-Xylenes	µg/m3	8.6	8.9	13 J
Methyl methacrylate	µg/m3	0.32 U	0.32 U	6.5 U
Methyl tert butyl ether (MTBE)	µg/m3	0.61 U	0.61 U	12 U
Methylene chloride	µg/m3	1.1 U	21	40
N-Butylbenzene	µg/m3	0.31 J	0.25 U	5.1 U
N-Heptane	µg/m3	1.1 J	1.5 J	7.7 J
N-Propylbenzene	µg/m3	0.40 J	0.29 J	5.5 U
Naphthalene	µg/m3	0.47 U	0.47 UJ	9.4 UJ
o-Xylene	µg/m3	2.9	3.1	6.1 J
Styrene	µg/m3	0.64 J	0.25 U	4.9 U
tert-Butyl alcohol	µg/m3	4.5 J	1.4 J	2.3 U
tert-Butylbenzene	µg/m3	0.36 U	0.36 U	7.2 U

Table 2

Analytical Results Summary
Soil Vapor Sampling
South Dayton Dump and Landfill
Illinois Tool Works, Inc.
Moraine, Ohio
August 2018

	Location ID:	**GP24A-13**	**GP24B-13**	**GP25-18**
	Sample Name:	**SVA-38443-082218-GL-024**	**SVA-38443-082218-GL-023**	**SVA-38443-081418-GL-006**
	Sample Date:	**08/22/2018**	**08/22/2018**	**08/14/2018**
Parameters	**Unit**			
Volatile Organic Compounds				
Tetrachloroethene	µg/m3	0.27 U	1.9	5.4 U
Tetrahydrofuran	µg/m3	2.3 J	0.19 U	3.7 U
Toluene	µg/m3	4.3	8.0	15
trans-1,2-Dichloroethene	µg/m3	2.3	1.1	4.0 U
trans-1,3-Dichloropropene	µg/m3	0.22 U	0.22 U	4.4 U
Trichloroethene	µg/m3	0.75 J	0.19 U	3.9 U
Trichlorofluoromethane (CFC-11)	µg/m3	7.1	3.4	5.0 J
Trifluorotrichloroethane (CFC-113)	µg/m3	0.66 J	0.59 J	4.8 U
Vinyl bromide (Bromoethene)	µg/m3	0.15 U	0.15 U	3.1 U
Vinyl chloride	µg/m3	0.30 J	0.18 U	75

Notes:

U - Not detected at the associated reporting limit
J - Estimated concentration
UJ - Not detected; associated reporting limit is estimated

Table 2

Analytical Results Summary
Soil Vapor Sampling
South Dayton Dump and Landfill
Illinois Tool Works, Inc.
Moraine, Ohio
August 2018

	Location ID:	**GP26-18**	**GP27-18**	**GP28-18**
	Sample Name:	**SVA-38443-081418-GL-005**	**SVA-38443-081518-GL-010**	**SVA-38443-081518-GL-007**
	Sample Date:	**08/14/2018**	**08/15/2018**	**08/15/2018**
Parameters	**Unit**			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/m3	7.3 U	19 U	7.4 U
1,1,2,2-Tetrachloroethane	µg/m3	19 U	48 U	19 U
1,1,2-Trichloroethane	µg/m3	13 U	34 U	13 U
1,1-Dichloroethane	µg/m3	30 J	41 J	19 J
1,1-Dichloroethene	µg/m3	6.1 U	15 U	6.1 U
1,2,4-Trichlorobenzene	µg/m3	33 UJ	83 UJ	33 UJ
1,2,4-Trimethylbenzene	µg/m3	22 J	120	14 U
1,2-Dibromoethane (Ethylene dibromide)	µg/m3	15 U	38 U	15 U
1,2-Dichlorobenzene	µg/m3	19 U	48 U	19 U
1,2-Dichloroethane	µg/m3	8.5 U	22 U	8.7 U
1,2-Dichloropropane	µg/m3	11 U	27 U	11 U
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m3	32 J	25 U	10 U
1,3,5-Trimethylbenzene	µg/m3	14 U	52 J	15 U
1,3-Butadiene	µg/m3	6.4 U	16 U	6.4 U
1,3-Dichlorobenzene	µg/m3	18 U	44 U	18 U
1,4-Dichlorobenzene	µg/m3	17 U	74 J	18 U
1,4-Dioxane	µg/m3	13 U	33 U	13 U
2,2,4-Trimethylpentane	µg/m3	16 J	21 U	8.3 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m3	26 U	67 U	27 U
2-Chlorotoluene	µg/m3	15 U	37 U	15 U
2-Hexanone	µg/m3	11 U	27 U	11 U
2-Phenylbutane (sec-Butylbenzene)	µg/m3	16 U	40 U	38 J
4-Ethyl toluene	µg/m3	15 U	72 J	15 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/m3	36 U	91 U	36 U
Acetone	µg/m3	150 U	380 U	150 U
Allyl chloride	µg/m3	6.7 U	17 U	6.8 U
Benzene	µg/m3	52	410	87
Benzyl chloride	µg/m3	18 U	46 U	18 U
Bromodichloromethane	µg/m3	13 U	34 U	13 U
Bromoform	µg/m3	22 U	56 U	23 U
Bromomethane (Methyl bromide)	µg/m3	5.6 U	14 U	5.7 U

Table 2

Analytical Results Summary
Soil Vapor Sampling
South Dayton Dump and Landfill
Illinois Tool Works, Inc.
Moraine, Ohio
August 2018

	Location ID:	**GP26-18**	**GP27-18**	**GP28-18**
	Sample Name:	**SVA-38443-081418-GL-005**	**SVA-38443-081518-GL-010**	**SVA-38443-081518-GL-007**
	Sample Date:	**08/14/2018**	**08/15/2018**	**08/15/2018**
Parameters	**Unit**			
Volatile Organic Compounds				
Butane	µg/m3	1800	8100	3000
Carbon disulfide	µg/m3	240	92 J	27 J
Carbon tetrachloride	µg/m3	11 U	27 U	11 U
Chlorobenzene	µg/m3	22 J	9200	1700
Chlorodifluoromethane	µg/m3	48	15 U	12 J
Chloroethane	µg/m3	550	41 J	43
Chloroform (Trichloromethane)	µg/m3	8.3 U	21 U	8.4 U
Chloromethane (Methyl chloride)	µg/m3	15 U	38 U	15 U
cis-1,2-Dichloroethene	µg/m3	13 J	27 U	30 J
cis-1,3-Dichloropropene	µg/m3	15 U	38 U	15 U
Cyclohexane	µg/m3	72 J	350 J	150
Cymene (p-Isopropyltoluene)	µg/m3	14 U	36 U	14 U
Dibromochloromethane	µg/m3	16 U	41 U	16 U
Dichlorodifluoromethane (CFC-12)	µg/m3	15 U	38 U	15 U
Ethylbenzene	µg/m3	13 U	150	13 U
Hexachlorobutadiene	µg/m3	37 UJ	95 UJ	38 UJ
Hexane	µg/m3	140	3100	1100
Isopropyl alcohol	µg/m3	10 U	26 U	11 U
Isopropyl benzene	µg/m3	13 U	34 U	71 J
m&p-Xylenes	µg/m3	54	350	67
Methyl methacrylate	µg/m3	15 U	37 U	15 U
Methyl tert butyl ether (MTBE)	µg/m3	28 U	70 U	28 U
Methylene chloride	µg/m3	50 U	130 U	51 U
N-Butylbenzene	µg/m3	11 U	29 U	13 J
N-Heptane	µg/m3	50 J	1800	390
N-Propylbenzene	µg/m3	12 U	95 J	13 U
Naphthalene	µg/m3	21 UJ	54 UJ	21 UJ
o-Xylene	µg/m3	18 J	310	12 U
Styrene	µg/m3	11 U	28 U	11 U
tert-Butyl alcohol	µg/m3	7.5 J	13 U	5.2 U
tert-Butylbenzene	µg/m3	16 U	41 U	16 U

Table 2

Analytical Results Summary
Soil Vapor Sampling
South Dayton Dump and Landfill
Illinois Tool Works, Inc.
Moraine, Ohio
August 2018

	Location ID:	**GP26-18**	**GP27-18**	**GP28-18**
	Sample Name:	**SVA-38443-081418-GL-005**	**SVA-38443-081518-GL-010**	**SVA-38443-081518-GL-007**
	Sample Date:	**08/14/2018**	**08/15/2018**	**08/15/2018**
Parameters	**Unit**			
Volatile Organic Compounds				
Tetrachloroethene	µg/m3	12 U	31 U	12 U
Tetrahydrofuran	µg/m3	8.3 U	21 U	8.5 U
Toluene	µg/m3	34	540	25 J
trans-1,2-Dichloroethene	µg/m3	8.9 U	23 U	21 J
trans-1,3-Dichloropropene	µg/m3	9.8 U	25 U	9.9 U
Trichloroethene	µg/m3	110	22 U	11 J
Trichlorofluoromethane (CFC-11)	µg/m3	6.1 U	15 U	6.1 U
Trifluorotrichloroethane (CFC-113)	µg/m3	11 U	27 U	11 U
Vinyl bromide (Bromoethene)	µg/m3	6.9 U	17 U	7.0 U
Vinyl chloride	µg/m3	77	21 U	160

Notes:

U - Not detected at the associated reporting limit
J - Estimated concentration
UJ - Not detected; associated reporting limit is estimated

Table 2

Analytical Results Summary
Soil Vapor Sampling
South Dayton Dump and Landfill
Illinois Tool Works, Inc.
Moraine, Ohio
August 2018

	Location ID:	**GP28-18**	**GP29-18**	**GP30-18**
	Sample Name:	**SVA-38443-081518-GL-008**	**SVA-38443-081518-GL-009**	**SVA-38443-082218-GL-027**
	Sample Date:	**08/15/2018**	**08/15/2018**	**08/22/2018**
		Duplicate		
Parameters	**Unit**			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/m3	6.4 U	7.8 J	0.16 U
1,1,2,2-Tetrachloroethane	µg/m3	16 U	8.4 U	0.42 U
1,1,2-Trichloroethane	µg/m3	11 U	5.9 U	0.29 U
1,1-Dichloroethane	µg/m3	20 J	4.7 J	0.11 U
1,1-Dichloroethene	µg/m3	5.2 U	2.7 U	0.13 U
1,2,4-Trichlorobenzene	µg/m3	28 UJ	15 UJ	0.73 U
1,2,4-Trimethylbenzene	µg/m3	12 U	14 J	3.2
1,2-Dibromoethane (Ethylene dibromide)	µg/m3	13 U	6.8 U	0.34 U
1,2-Dichlorobenzene	µg/m3	16 U	8.4 U	0.42 U
1,2-Dichloroethane	µg/m3	7.4 U	3.8 U	0.19 U
1,2-Dichloropropane	µg/m3	9.3 U	4.8 U	0.24 U
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m3	8.7 U	92	0.22 U
1,3,5-Trimethylbenzene	µg/m3	12 U	7.6 J	0.85 J
1,3-Butadiene	µg/m3	5.5 U	2.8 U	0.14 U
1,3-Dichlorobenzene	µg/m3	15 U	7.8 U	6.9
1,4-Dichlorobenzene	µg/m3	15 U	7.7 U	0.38 U
1,4-Dioxane	µg/m3	11 U	5.8 U	0.43 J
2,2,4-Trimethylpentane	µg/m3	7.1 U	3.6 U	0.90 J
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m3	23 U	12 U	12
2-Chlorotoluene	µg/m3	13 U	6.5 U	0.33 U
2-Hexanone	µg/m3	9.2 U	4.8 U	1.7 J
2-Phenylbutane (sec-Butylbenzene)	µg/m3	47 J	30 J	0.35 U
4-Ethyl toluene	µg/m3	13 U	11 J	0.75 J
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/m3	31 U	16 U	1.1 J
Acetone	µg/m3	130 U	67 U	120
Allyl chloride	µg/m3	5.8 U	3.0 U	0.15 U
Benzene	µg/m3	120	40	1.5
Benzyl chloride	µg/m3	16 U	8.1 U	0.40 U
Bromodichloromethane	µg/m3	11 U	5.9 U	0.29 U
Bromoform	µg/m3	19 U	9.9 U	0.50 U
Bromomethane (Methyl bromide)	µg/m3	4.8 U	2.5 U	0.12 U

Table 2

Analytical Results Summary
Soil Vapor Sampling
South Dayton Dump and Landfill
Illinois Tool Works, Inc.
Moraine, Ohio
August 2018

	Location ID:	**GP28-18**	**GP29-18**	**GP30-18**
	Sample Name:	**SVA-38443-081518-GL-008**	**SVA-38443-081518-GL-009**	**SVA-38443-082218-GL-027**
	Sample Date:	**08/15/2018**	**08/15/2018**	**08/22/2018**
		Duplicate		
Parameters	**Unit**			
Volatile Organic Compounds				
Butane	µg/m3	3700	4800	1.4
Carbon disulfide	µg/m3	38 J	17 J	65
Carbon tetrachloride	µg/m3	9.3 U	4.8 U	0.27 J
Chlorobenzene	µg/m3	2200	4.5 U	0.23 U
Chlorodifluoromethane	µg/m3	17 J	14 J	3.0
Chloroethane	µg/m3	44	3.8 J	0.27 J
Chloroform (Trichloromethane)	µg/m3	7.2 U	3.7 U	0.19 U
Chloromethane (Methyl chloride)	µg/m3	13 U	6.6 U	3.5
cis-1,2-Dichloroethene	µg/m3	34	95	0.24 U
cis-1,3-Dichloropropene	µg/m3	13 U	6.7 U	0.34 U
Cyclohexane	µg/m3	210	36	0.14 U
Cymene (p-Isopropyltoluene)	µg/m3	12 U	6.3 U	0.31 U
Dibromochloromethane	µg/m3	14 U	7.2 U	0.36 U
Dichlorodifluoromethane (CFC-12)	µg/m3	13 U	51	0.46 J
Ethylbenzene	µg/m3	13 J	14 J	2.7
Hexachlorobutadiene	µg/m3	32 UJ	17 UJ	0.83 U
Hexane	µg/m3	1400	790	1.1 J
Isopropyl alcohol	µg/m3	9.0 U	5.1 J	90
Isopropyl benzene	µg/m3	92	74	2.3
m&p-Xylenes	µg/m3	92	15 J	11
Methyl methacrylate	µg/m3	13 U	6.5 U	0.32 U
Methyl tert butyl ether (MTBE)	µg/m3	24 U	12 U	0.61 U
Methylene chloride	µg/m3	43 U	22 U	1.6 J
N-Butylbenzene	µg/m3	16 J	12 J	0.39 J
N-Heptane	µg/m3	520	400	1.6 J
N-Propylbenzene	µg/m3	11 U	66	0.50 J
Naphthalene	µg/m3	18 UJ	9.4 UJ	0.47 U
o-Xylene	µg/m3	15 J	13 J	4.1
Styrene	µg/m3	9.6 U	4.9 U	0.94
tert-Butyl alcohol	µg/m3	4.5 U	3.6 J	4.3 J
tert-Butylbenzene	µg/m3	14 U	7.2 U	0.36 U

Table 2

Analytical Results Summary
Soil Vapor Sampling
South Dayton Dump and Landfill
Illinois Tool Works, Inc.
Moraine, Ohio
August 2018

	Location ID:	**GP28-18**	**GP29-18**	**GP30-18**
	Sample Name:	**SVA-38443-081518-GL-008**	**SVA-38443-081518-GL-009**	**SVA-38443-082218-GL-027**
	Sample Date:	**08/15/2018**	**08/15/2018**	**08/22/2018**
		Duplicate		
Parameters	**Unit**			
Volatile Organic Compounds				
Tetrachloroethene	µg/m3	11 U	68	0.27 U
Tetrahydrofuran	µg/m3	7.2 U	3.7 U	2.7 J
Toluene	µg/m3	31	23	7.2
trans-1,2-Dichloroethene	µg/m3	28 J	5.8 J	4.1
trans-1,3-Dichloropropene	µg/m3	8.5 U	4.4 U	0.22 U
Trichloroethene	µg/m3	7.5 U	17 J	2.1
Trichlorofluoromethane (CFC-11)	µg/m3	5.2 U	2.7 U	0.56 J
Trifluorotrichloroethane (CFC-113)	µg/m3	9.2 U	4.8 U	0.24 U
Vinyl bromide (Bromoethene)	µg/m3	5.9 U	3.1 U	0.15 U
Vinyl chloride	µg/m3	200	53	0.18 U

Notes:

U - Not detected at the associated reporting limit
J - Estimated concentration
UJ - Not detected; associated reporting limit is estimated

Table 2

Analytical Results Summary
Soil Vapor Sampling
South Dayton Dump and Landfill
Illinois Tool Works, Inc.
Moraine, Ohio
August 2018

	Location ID:	**GP31-18**	**GP32-18**	**GP33-18**
	Sample Name:	**SVA-38443-082218-GL-026**	**SVA-38443-082418-GL-035**	**SVA-38443-082318-GL-029**
	Sample Date:	**08/22/2018**	**08/24/2018**	**08/23/2018**
Parameters	**Unit**			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/m3	44 U	15	0.16 U
1,1,2,2-Tetrachloroethane	µg/m3	110 U	4.2 U	0.42 U
1,1,2-Trichloroethane	µg/m3	79 U	2.9 U	0.29 U
1,1-Dichloroethane	µg/m3	28 U	1.5 J	0.11 U
1,1-Dichloroethene	µg/m3	36 U	1.3 U	0.13 U
1,2,4-Trichlorobenzene	µg/m3	190 U	7.3 U	0.73 UJ
1,2,4-Trimethylbenzene	µg/m3	83 U	3.1 U	1.7
1,2-Dibromoethane (Ethylene dibromide)	µg/m3	91 U	3.4 U	0.34 U
1,2-Dichlorobenzene	µg/m3	110 U	4.2 U	0.42 U
1,2-Dichloroethane	µg/m3	51 U	1.9 U	0.19 U
1,2-Dichloropropane	µg/m3	64 U	2.4 U	0.24 U
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m3	60 U	11 J	0.22 U
1,3,5-Trimethylbenzene	µg/m3	86 U	3.2 U	0.37 J
1,3-Butadiene	µg/m3	38 U	1.4 U	0.14 U
1,3-Dichlorobenzene	µg/m3	100 U	3.9 U	2.0
1,4-Dichlorobenzene	µg/m3	100 U	3.8 U	0.38 U
1,4-Dioxane	µg/m3	77 U	2.9 U	0.29 U
2,2,4-Trimethylpentane	µg/m3	49 U	1.8 U	1.9 J
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m3	160 U	5.9 U	5.4
2-Chlorotoluene	µg/m3	87 U	3.3 U	0.33 U
2-Hexanone	µg/m3	64 U	2.4 U	0.91 J
2-Phenylbutane (sec-Butylbenzene)	µg/m3	94 U	3.5 U	0.35 U
4-Ethyl toluene	µg/m3	87 U	3.2 U	0.39 J
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/m3	210 U	8.0 U	1.0 J
Acetone	µg/m3	890 U	37 J	28
Allyl chloride	µg/m3	40 U	1.5 U	0.15 U
Benzene	µg/m3	48 U	3.6 J	0.67
Benzyl chloride	µg/m3	110 U	4.0 U	0.40 U
Bromodichloromethane	µg/m3	79 U	2.9 U	0.29 U
Bromoform	µg/m3	130 U	5.0 U	0.50 U
Bromomethane (Methyl bromide)	µg/m3	33 U	1.2 U	0.12 U

Table 2

Analytical Results Summary
Soil Vapor Sampling
South Dayton Dump and Landfill
Illinois Tool Works, Inc.
Moraine, Ohio
August 2018

	Location ID:	**GP31-18**	**GP32-18**	**GP33-18**
	Sample Name:	**SVA-38443-082218-GL-026**	**SVA-38443-082418-GL-035**	**SVA-38443-082318-GL-029**
	Sample Date:	**08/22/2018**	**08/24/2018**	**08/23/2018**
Parameters	**Unit**			
Volatile Organic Compounds				
Butane	µg/m3	46 U	5.1 J	1.5
Carbon disulfide	µg/m3	270 J	69	1.6
Carbon tetrachloride	µg/m3	64 U	2.4 U	0.39 J
Chlorobenzene	µg/m3	60 U	2.3 U	0.23 U
Chlorodifluoromethane	µg/m3	35 U	4.7 J	7.8
Chloroethane	µg/m3	25 U	0.92 U	0.092 U
Chloroform (Trichloromethane)	µg/m3	110 J	8.0 J	0.96
Chloromethane (Methyl chloride)	µg/m3	89 U	3.3 U	0.89 J
cis-1,2-Dichloroethene	µg/m3	1000	4.7 J	0.24 U
cis-1,3-Dichloropropene	µg/m3	90 U	3.4 U	0.34 U
Cyclohexane	µg/m3	37 U	1.4 U	0.14 U
Cymene (p-Isopropyltoluene)	µg/m3	84 U	3.1 U	0.31 U
Dibromochloromethane	µg/m3	96 U	3.6 U	0.36 U
Dichlorodifluoromethane (CFC-12)	µg/m3	90 U	29	1.3
Ethylbenzene	µg/m3	79 U	3.0 U	1.1
Hexachlorobutadiene	µg/m3	220 U	8.3 U	0.83 UJ
Hexane	µg/m3	30 U	2.1 J	1.0 J
Isopropyl alcohol	µg/m3	120 J	46 J	27
Isopropyl benzene	µg/m3	79 U	2.9 U	0.81 J
m&p-Xylenes	µg/m3	140 U	5.2 U	4.9
Methyl methacrylate	µg/m3	87 U	3.2 U	0.32 U
Methyl tert butyl ether (MTBE)	µg/m3	160 U	6.1 U	0.61 U
Methylene chloride	µg/m3	300 U	11 U	3.0
N-Butylbenzene	µg/m3	68 U	2.5 U	0.25 U
N-Heptane	µg/m3	52 U	1.9 U	0.93 J
N-Propylbenzene	µg/m3	74 U	2.8 U	0.28 U
Naphthalene	µg/m3	130 U	4.7 U	0.47 UJ
o-Xylene	µg/m3	71 U	2.6 U	1.7
Styrene	µg/m3	66 U	2.5 U	0.32 J
tert-Butyl alcohol	µg/m3	31 U	6.0 J	2.2 J
tert-Butylbenzene	µg/m3	97 U	3.6 U	0.36 U

Table 2

Analytical Results Summary
Soil Vapor Sampling
South Dayton Dump and Landfill
Illinois Tool Works, Inc.
Moraine, Ohio
August 2018

	Location ID:	**GP31-18**	**GP32-18**	**GP33-18**
	Sample Name:	**SVA-38443-082218-GL-026**	**SVA-38443-082418-GL-035**	**SVA-38443-082318-GL-029**
	Sample Date:	**08/22/2018**	**08/24/2018**	**08/23/2018**
Parameters	**Unit**			
Volatile Organic Compounds				
Tetrachloroethene	µg/m3	73 U	2.7 U	2.2
Tetrahydrofuran	µg/m3	50 U	3.0 J	0.96 J
Toluene	µg/m3	120 U	4.5 U	2.8
trans-1,2-Dichloroethene	µg/m3	330	2.9 J	2.6
trans-1,3-Dichloropropene	µg/m3	58 U	2.2 U	0.22 U
Trichloroethene	µg/m3	27000	590	15
Trichlorofluoromethane (CFC-11)	µg/m3	36 U	3.1 J	1.1
Trifluorotrichloroethane (CFC-113)	µg/m3	64 U	2.4 U	0.45 J
Vinyl bromide (Bromoethene)	µg/m3	41 U	1.5 U	0.15 U
Vinyl chloride	µg/m3	49 U	1.8 U	0.18 U

Notes:

U - Not detected at the associated reporting limit
J - Estimated concentration
UJ - Not detected; associated reporting limit is estimated

Table 2

Analytical Results Summary
Soil Vapor Sampling
South Dayton Dump and Landfill
Illinois Tool Works, Inc.
Moraine, Ohio
August 2018

	Location ID:	**GP34-18**	**Trip Blank**
	Sample Name:	**SVA-38443-082218-GL-022**	**TB-38443-082318-GL-001**
	Sample Date:	**08/22/2018**	**08/23/2018**
Parameters	**Unit**		
Volatile Organic Compounds			
1,1,1-Trichloroethane	µg/m3	1.8	0.16 U
1,1,2,2-Tetrachloroethane	µg/m3	0.42 U	0.42 U
1,1,2-Trichloroethane	µg/m3	0.29 U	0.29 U
1,1-Dichloroethane	µg/m3	0.11 U	0.11 U
1,1-Dichloroethene	µg/m3	0.13 U	0.13 U
1,2,4-Trichlorobenzene	µg/m3	0.73 UJ	0.73 U
1,2,4-Trimethylbenzene	µg/m3	1.8	0.31 U
1,2-Dibromoethane (Ethylene dibromide)	µg/m3	0.34 U	0.34 U
1,2-Dichlorobenzene	µg/m3	0.42 U	0.42 U
1,2-Dichloroethane	µg/m3	0.19 U	0.19 U
1,2-Dichloropropane	µg/m3	0.24 U	0.24 U
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m3	0.22 U	0.22 U
1,3,5-Trimethylbenzene	µg/m3	0.39 J	0.32 U
1,3-Butadiene	µg/m3	0.14 U	0.14 U
1,3-Dichlorobenzene	µg/m3	2.3	0.39 U
1,4-Dichlorobenzene	µg/m3	0.38 U	0.38 U
1,4-Dioxane	µg/m3	0.29 U	0.29 U
2,2,4-Trimethylpentane	µg/m3	0.88 J	0.18 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m3	7.8	0.59 U
2-Chlorotoluene	µg/m3	0.33 U	0.33 U
2-Hexanone	µg/m3	1.3 J	0.24 U
2-Phenylbutane (sec-Butylbenzene)	µg/m3	0.35 U	0.35 U
4-Ethyl toluene	µg/m3	0.46 J	0.32 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/m3	0.90 J	0.80 U
Acetone	µg/m3	35	3.3 U
Allyl chloride	µg/m3	0.15 U	0.15 U
Benzene	µg/m3	0.81	0.18 U
Benzyl chloride	µg/m3	0.40 U	0.40 U
Bromodichloromethane	µg/m3	0.29 U	0.29 U
Bromoform	µg/m3	0.50 U	0.50 U
Bromomethane (Methyl bromide)	µg/m3	0.12 U	0.12 U

Table 2

Analytical Results Summary
Soil Vapor Sampling
South Dayton Dump and Landfill
Illinois Tool Works, Inc.
Moraine, Ohio
August 2018

	Location ID:	**GP34-18**	**Trip Blank**
	Sample Name:	**SVA-38443-082218-GL-022**	**TB-38443-082318-GL-001**
	Sample Date:	**08/22/2018**	**08/23/2018**
Parameters	**Unit**		
Volatile Organic Compounds			
Butane	µg/m3	0.82 J	0.17 U
Carbon disulfide	µg/m3	21	0.097 U
Carbon tetrachloride	µg/m3	0.24 U	0.24 U
Chlorobenzene	µg/m3	0.23 U	0.23 U
Chlorodifluoromethane	µg/m3	4.6	0.29 J
Chloroethane	µg/m3	0.092 U	0.092 U
Chloroform (Trichloromethane)	µg/m3	0.24 J	0.19 U
Chloromethane (Methyl chloride)	µg/m3	1.5	0.33 U
cis-1,2-Dichloroethene	µg/m3	0.24 U	0.24 U
cis-1,3-Dichloropropene	µg/m3	0.34 U	0.34 U
Cyclohexane	µg/m3	0.20 J	0.14 U
Cymene (p-Isopropyltoluene)	µg/m3	0.31 U	0.31 U
Dibromochloromethane	µg/m3	0.36 U	0.36 U
Dichlorodifluoromethane (CFC-12)	µg/m3	1.8	0.34 U
Ethylbenzene	µg/m3	1.6	0.30 U
Hexachlorobutadiene	µg/m3	0.83 UJ	0.83 U
Hexane	µg/m3	0.93 J	0.11 U
Isopropyl alcohol	µg/m3	43	0.23 U
Isopropyl benzene	µg/m3	1.2 J	0.29 U
m&p-Xylenes	µg/m3	6.7	0.52 U
Methyl methacrylate	µg/m3	0.32 U	0.32 U
Methyl tert butyl ether (MTBE)	µg/m3	0.61 U	0.61 U
Methylene chloride	µg/m3	1.2 J	1.1 U
N-Butylbenzene	µg/m3	0.25 U	0.25 U
N-Heptane	µg/m3	1.3 J	0.19 U
N-Propylbenzene	µg/m3	0.28 J	0.28 U
Naphthalene	µg/m3	0.47 UJ	0.47 U
o-Xylene	µg/m3	2.2	0.26 U
Styrene	µg/m3	0.53 J	0.25 U
tert-Butyl alcohol	µg/m3	2.2 J	0.12 J
tert-Butylbenzene	µg/m3	0.36 U	0.36 U

Table 2

Analytical Results Summary
Soil Vapor Sampling
South Dayton Dump and Landfill
Illinois Tool Works, Inc.
Moraine, Ohio
August 2018

	Location ID:	**GP34-18**	**Trip Blank**
	Sample Name:	**SVA-38443-082218-GL-022**	**TB-38443-082318-GL-001**
	Sample Date:	**08/22/2018**	**08/23/2018**
Parameters	**Unit**		
Volatile Organic Compounds			
Tetrachloroethene	µg/m3	66	0.27 U
Tetrahydrofuran	µg/m3	1.7 J	0.19 U
Toluene	µg/m3	4.5	0.45 U
trans-1,2-Dichloroethene	µg/m3	1.3	0.20 U
trans-1,3-Dichloropropene	µg/m3	0.22 U	0.22 U
Trichloroethene	µg/m3	0.19 U	0.19 U
Trichlorofluoromethane (CFC-11)	µg/m3	4.8	0.13 U
Trifluorotrichloroethane (CFC-113)	µg/m3	0.93 J	0.24 U
Vinyl bromide (Bromoethene)	µg/m3	0.15 U	0.15 U
Vinyl chloride	µg/m3	0.21 J	0.18 U

Notes:

U - Not detected at the associated reporting limit
J - Estimated concentration
UJ - Not detected; associated reporting limit is estimated

Table 3

Analytical Methods
Soil Vapor Sampling
South Dayton Dump and Landfill
Illinois Tool Works, Inc.
Moraine, Ohio
August 2018

Parameter	Method	Matrix	Holding Time Collection to Analysis (Days)
Volatile Organic Compounds (VOCs)	TO-15	Air	30

Notes:

TO-15 - "Determination of Volatile Organic Compounds in Air Collected in Specially-Prepared Canisters and Analyzed by Gas Chromatography/Mass Spectrometry (GC/MS)" January 1999

Table 4

Qualified Sample Results Due to Outlying Continuing Calibration Results
Soil Vapor Sampling
South Dayton Dump and Landfill
Illinois Tool Works, Inc.
Moraine, Ohio
August 2018

Parameter	Analyte	Calibration Date (mm/dd/yyyy)	%D	Associated Sample ID	Qualified Result	Units
VOCs	1,2,4-Trichlorobenzene	08/30/2018	38	SVA-38443-082118-GL-020	1.8 UJ	µg/m^3
				SVA-38443-082118-GL-021	7.3 UJ	µg/m^3
				SVA-38443-082218-GL-022	0.73 UJ	µg/m^3
				SVA-38443-082218-GL-023	0.73 UJ	µg/m^3
				SVA-38443-082318-GL-028	75 UJ	µg/m^3
				SVA-38443-082318-GL-029	0.73 UJ	µg/m^3
VOCs	Hexachlorobutadiene	08/30/2018	38	SVA-38443-082118-GL-020	2.1 UJ	µg/m^3
				SVA-38443-082118-GL-021	8.3 UJ	µg/m^3
				SVA-38443-082218-GL-022	0.83 UJ	µg/m^3
				SVA-38443-082218-GL-023	0.83 UJ	µg/m^3
				SVA-38443-082318-GL-028	86 UJ	µg/m^3
				SVA-38443-082318-GL-029	0.83 UJ	µg/m^3
VOCs	Naphthalene	08/30/2018	39	SVA-38443-082118-GL-020	1.5 J	µg/m^3
				SVA-38443-082118-GL-021	4.7 UJ	µg/m^3
				SVA-38443-082218-GL-022	0.47 UJ	µg/m^3
				SVA-38443-082218-GL-023	0.47 UJ	µg/m^3
				SVA-38443-082318-GL-028	49 UJ	µg/m^3
				SVA-38443-082318-GL-029	0.47 UJ	µg/m^3
VOCs	1,2,4-Trichlorobenzene	08/29/2018	41	SVA-38443-081518-GL-007	33 UJ	µg/m^3
				SVA-38443-081518-GL-008	28 UJ	µg/m^3
				SVA-38443-082018-GL-013	7.3 UJ	µg/m^3
				SVA-38443-082018-GL-014	0.73 UJ	µg/m^3
				SVA-38443-082018-GL-015	2.9 UJ	µg/m^3
				SVA-38443-082018-GL-016	2.9 UJ	µg/m^3
				SVA-38443-082018-GL-017	22 UJ	µg/m^3
				SVA-38443-081418-GL-001	15 UJ	µg/m^3
				SVA-38443-081418-GL-002	7.3 UJ	µg/m^3
				SVA-38443-081418-GL-003	0.73 UJ	µg/m^3
				SVA-38443-081418-GL-004	0.73 UJ	µg/m^3
				SVA-38443-081418-GL-005	33 UJ	µg/m^3
				SVA-38443-081418-GL-006	15 UJ	µg/m^3
				SVA-38443-081518-GL-009	15 UJ	µg/m^3
				SVA-38443-081518-GL-010	83 UJ	µg/m^3
				SVA-38443-081518-GL-011	9.9 UJ	µg/m^3
				SVA-38443-081518-GL-012	0.73 UJ	µg/m^3

Table 4

Qualified Sample Results Due to Outlying Continuing Calibration Results
Soil Vapor Sampling
South Dayton Dump and Landfill
Illinois Tool Works, Inc.
Moraine, Ohio
August 2018

Parameter	Analyte	Calibration Date (mm/dd/yyyy)	%D	Associated Sample ID	Qualified Result	Units
VOCs	Hexachlorobutadiene	08/29/2018	39	SVA-38443-081518-GL-007	38 UJ	µg/m^3
				SVA-38443-081518-GL-008	32 UJ	µg/m^3
				SVA-38443-082018-GL-013	8.3 UJ	µg/m^3
				SVA-38443-082018-GL-014	0.83 UJ	µg/m^3
				SVA-38443-082018-GL-015	3.3 UJ	µg/m^3
				SVA-38443-082018-GL-016	3.3 UJ	µg/m^3
				SVA-38443-081518-GL-009	17 UJ	µg/m^3
				SVA-38443-082018-GL-017	25 UJ	µg/m^3
				SVA-38443-081418-GL-001	17 UJ	µg/m^3
				SVA-38443-081418-GL-002	8.3 UJ	µg/m^3
				SVA-38443-081418-GL-003	0.83 UJ	µg/m^3
				SVA-38443-081518-GL-010	95 UJ	µg/m^3
				SVA-38443-081418-GL-004	0.83 UJ	µg/m^3
				SVA-38443-081418-GL-005	37 UJ	µg/m^3
				SVA-38443-081418-GL-006	17 UJ	µg/m^3
				SVA-38443-081518-GL-011	11 UJ	µg/m^3
				SVA-38443-081518-GL-012	0.83 UJ	µg/m^3
VOCs	Naphthalene	08/29/2018	42	SVA-38443-082018-GL-014	1.0 J	µg/m^3
				SVA-38443-081518-GL-012	1.0 J	µg/m^3
				SVA-38443-081418-GL-003	1.1 J	µg/m^3
				SVA-38443-081418-GL-004	1.1 J	µg/m^3
				SVA-38443-081518-GL-007	21 UJ	µg/m^3
				SVA-38443-081518-GL-008	18 UJ	µg/m^3
				SVA-38443-081518-GL-009	9.4 UJ	µg/m^3
				SVA-38443-082018-GL-013	4.7 UJ	µg/m^3
				SVA-38443-082018-GL-015	1.9 UJ	µg/m^3
				SVA-38443-082018-GL-016	1.9 UJ	µg/m^3
				SVA-38443-082018-GL-017	14 UJ	µg/m^3
				SVA-38443-081418-GL-001	9.4 UJ	µg/m^3
				SVA-38443-081418-GL-002	4.7 UJ	µg/m^3
				SVA-38443-081418-GL-005	21 UJ	µg/m^3
				SVA-38443-081418-GL-006	9.4 UJ	µg/m^3
				SVA-38443-081518-GL-010	54 UJ	µg/m^3
				SVA-38443-081518-GL-011	6.4 UJ	µg/m^3

Table 4

Qualified Sample Results Due to Outlying Continuing Calibration Results
Soil Vapor Sampling
South Dayton Dump and Landfill
Illinois Tool Works, Inc.
Moraine, Ohio
August 2018

Parameter	Analyte	Calibration Date (mm/dd/yyyy)	%D	Associated Sample ID	Qualified Result	Units
VOCs	1,2,4-Trichlorobenzene	09/04/2018	37	SVA-38443-082118-GL-018	16000 UJ	µg/m^3
				SVA-38443-082118-GL-019	0.73 UJ	µg/m^3
VOCs	Acetone	09/04/2018	39	SVA-38443-082118-GL-018	75000 UJ	µg/m^3
				SVA-38443-082118-GL-019	69 J	µg/m^3
VOCs	Hexachlorobutadiene	09/04/2018	38	SVA-38443-082118-GL-018	19000 UJ	µg/m^3
				SVA-38443-082118-GL-019	0.83 UJ	µg/m^3
VOCs	Naphthalene	09/04/2018	37	SVA-38443-082118-GL-018	11000 UJ	µg/m^3
				SVA-38443-082118-GL-019	0.79 J	µg/m^3

Notes:

%D - Percent Difference
J - Estimated concentration
VOCs - Volatile Organic Compounds
UJ - Not detected; associated reporting limit is estimated

Table 5

Qualified Sample Results Due to Outlying Laboratory Control Sample Results
Soil Vapor Sampling
South Dayton Dump and Landfill
Illinois Tool Works, Inc.
Moraine, Ohio
August 2018

Parameter	Analyte	LCS Date (mm/dd/yyyy)	LCS % Recovery	Control Limits % Recovery	Associated Sample ID	Qualified Results	Units
VOCs	1,2,4-Trichlorobenzene	08/29/2018	59	60-140	SVA-38443-082018-GL-013	7.3 UJ	µg/m^3
					SVA-38443-082018-GL-014	0.73 UJ	µg/m^3
					SVA-38443-082018-GL-015	2.9 UJ	µg/m^3
					SVA-38443-082018-GL-016	2.9 UJ	µg/m^3
					SVA-38443-082018-GL-017	22 UJ	µg/m^3
					SVA-38443-081418-GL-001	15 UJ	µg/m^3
					SVA-38443-081418-GL-002	7.3 UJ	µg/m^3
					SVA-38443-081418-GL-003	0.73 UJ	µg/m^3
					SVA-38443-081418-GL-004	0.73 UJ	µg/m^3
					SVA-38443-081418-GL-005	33 UJ	µg/m^3
					SVA-38443-081418-GL-006	15 UJ	µg/m^3
					SVA-38443-081518-GL-007	33 UJ	µg/m^3
					SVA-38443-081518-GL-008	28 UJ	µg/m^3
					SVA-38443-081518-GL-009	15 UJ	µg/m^3
					SVA-38443-081518-GL-010	83 UJ	µg/m^3
					SVA-38443-081518-GL-011	9.9 UJ	µg/m^3
					SVA-38443-081518-GL-012	0.73 UJ	µg/m^3
VOCs	Naphthalene	08/29/2018	58	60-140	SVA-38443-082018-GL-014	1.0 J	µg/m^3
					SVA-38443-081518-GL-012	1.0 J	µg/m^3
					SVA-38443-081418-GL-003	1.1 J	µg/m^3
					SVA-38443-081418-GL-004	1.1 J	µg/m^3
					SVA-38443-082018-GL-013	4.7 UJ	µg/m^3
					SVA-38443-082018-GL-015	1.9 UJ	µg/m^3
					SVA-38443-082018-GL-016	1.9 UJ	µg/m^3
					SVA-38443-082018-GL-017	14 UJ	µg/m^3
					SVA-38443-081418-GL-001	9.4 UJ	µg/m^3
					SVA-38443-081418-GL-002	4.7 UJ	µg/m^3
					SVA-38443-081418-GL-005	21 UJ	µg/m^3
					SVA-38443-081418-GL-006	9.4 UJ	µg/m^3
					SVA-38443-081518-GL-007	21 UJ	µg/m^3
					SVA-38443-081518-GL-008	18 UJ	µg/m^3
					SVA-38443-081518-GL-009	9.4 UJ	µg/m^3
					SVA-38443-081518-GL-010	54 UJ	µg/m^3
					SVA-38443-081518-GL-011	6.4 UJ	µg/m^3

Notes:

LCS - Laboratory Control Sample
J - Estimated concentration
UJ - Not detected; associated reporting limit is estimated
VOCs - Volatile Organic Compounds

Table 6

Qualified Sample Data Due to Variability in Field Duplicate Results
Soil Vapor Sampling
South Dayton Dump and Landfill
Illinois Tool Works, Inc.
Moraine, Ohio
August 2018

Parameter	Analyte	RPD	Diff	RL	Sample ID	Qualified Result	Field Duplicate Sample ID	Qualified Result	Units
VOCs	Acetone	63	26	48	SVA-38443-082018-GL-015	54 J	SVA-38443-082018-GL-016	28 J	µg/m^3
VOCs	Chlorodifluoromethane	131	5.7	0.71	SVA-38443-082318-GL-031	1.5 J	SVA-38443-082318-GL-032	7.2 J	µg/m^3
	Methylene chloride	109	2.9	1.7		1.2 J		4.1 J	µg/m^3

Notes:

Diff - Difference (>1X RL)
J - Estimated concentration
RPD - Relative Percent Difference
VOCs - Volatile Organic Compounds
RL - Reporting Limit

Table 7

Summary of Qualified Sample Data Due to Matrix Interference
Soil Vapor Sampling
South Dayton Dump and Landfill
Illinois Tool Works, Inc.
Moraine, Ohio
August 2018

Parameter	Sample ID	Analyte	Qualified Result	Units
VOCs	SVA-38443-081518-GL-010	Cyclohexane	350 J	µg/m^3

Notes:

J - Estimated concentration
VOCs - Volatile Organic Compounds

Memorandum

April 11, 2019

To:	Julian Hayward	Ref. No.:	038443-320
From:	Angela Bown/cs/51-NF	Tel:	513-942-4750
cc:	Brent Ramdial, Valerie Chan		

Subject: **Analytical Results and Full Validation**
Soil Sampling for Gas Probe Installation
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January 2019

1. Introduction

This document details a validation of analytical results for soil samples collected in support of the Soil Sampling for Gas Probe Installation Event at the Moraine, Ohio site during January 2019. Samples were submitted to TestAmerica Laboratories, Inc. (TA) located in North Canton, Ohio. A sample collection and analysis summary is presented in Table 1. The validated analytical results are summarized in Table 2. A summary of the analytical methodology is presented in Table 3.

Full Contract Laboratory Program (CLP) equivalent raw data deliverables were provided by the laboratory. Evaluation of the data was based on information obtained from the finished data sheets, raw data, chain of custody form, calibration data, blank data, and recovery data from surrogate spikes/laboratory control samples (LCS). The assessment of analytical and in-house data included checks for data consistency (by observing comparability of duplicate analyses), adherence to accuracy and precision criteria and transmittal errors. A cursory review of the gravimetric and geotechnical results was also performed and resulted in no qualification of the associated data.

The QA/QC criteria by which these data have been assessed are outlined in the analytical methods referenced in Table 3 and applicable guidance from the documents entitled:

i) "Remedial Investigation/Feasibility Study (RI/FS) Work Plan for Operable Units 1 and 2, Appendix E – Quality Assurance Project Plan", September 20, 2017

ii) "USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review", USEPA 540-R-08-01, June 2008

Item ii) will subsequently be referred to as the "Guidelines" in this Memorandum.

2. Sample Holding Time and Preservation

The sample holding time criteria for the analyses are summarized in Table 3. Sample chain of custody documents and analytical reports were used to determine sample holding times. All samples were prepared and analyzed within the required holding times.

All samples were properly preserved, delivered on ice, and stored by the laboratory at the required temperature (0-6°C).

3. Gas Chromatography/Mass Spectrometer (GC/MS) – Tuning and Mass Calibration (Instrument Performance Check)

Prior to volatile organic compound (VOC) analysis, the GC/MS instrumentation is tuned to ensure optimization over the mass range of interest. To evaluate instrument tuning, the method requires the analysis of the specific tuning compound, bromofluorobenzene (BFB). The resulting spectra must meet the criteria cited in the method before analysis is initiated. Analysis of the tuning compound must then be repeated every 12 hours throughout sample analysis to ensure the continued optimization of the instrument.

The tuning compound was analyzed at the required frequency throughout the VOC analysis periods. All tuning criteria were met indicating that proper optimization of the instrumentation was achieved.

4. Initial Calibration

To quantify the VOCs of interest in samples, calibration of the GC/MS over a specific concentration range must be performed. Initially, a five-point calibration curve containing all compounds of interest is analyzed to characterize instrument response for each analyte over a specific concentration range. Linearity of the calibration curve and instrument sensitivity are evaluated against the following criteria:

i) All relative response factors (RRFs) must be greater than or equal to 0.050 (greater than or equal to 0.010 for compounds that exhibit poor response)

ii) The percent relative standard deviation (%RSD) values must not exceed 20.0 percent (40.0 percent for compounds that exhibit poor response) or a minimum correlation coefficient (R) and minimum coefficient of determination (R^2) of 0.995 and 0.99, respectively, if linear and quadratic equation calibration curves are used

The initial calibration data for VOCs were reviewed. All compounds met the above criteria for sensitivity and linearity.

5. Continuing Calibration

To ensure that instrument calibration for VOC analyses is acceptable throughout the sample analysis period, continuing calibration standards must be analyzed and compared to the initial calibration curve every 12 hours.

The following criteria were employed to evaluate continuing calibration data:

i) All RRF values must be greater than or equal to 0.050 (greater than or equal to 0.010 for compounds that exhibit poor response)

ii) Percent difference (%D) values must not exceed 25.0 percent (40.0 percent for compounds that exhibit poor response)

Calibration standards were analyzed at the required frequency, and the results met the above criteria for instrument sensitivity and stability.

6. Laboratory Blank Analyses

Method blanks are prepared from a purified matrix and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the analytical procedures.

For this study, laboratory method blanks were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

All method blank results were non-detect or did not impact the associated non-detect sample results.

7. Surrogate Spike Recoveries

In accordance with the methods employed, all samples, blanks, and QC samples analyzed for organics are spiked with surrogate compounds prior to sample extraction and/or analysis. Surrogate recoveries provide a means to evaluate the effects of laboratory performance on individual sample matrices.

All samples submitted for organic determinations were spiked with the appropriate number of surrogate compounds prior to sample extraction and/or analysis.

Surrogate recoveries were assessed against laboratory control limits. All surrogate recoveries were within the laboratory criteria.

8. Internal Standards (IS) Analyses

IS data were evaluated for all VOC sample analyses.

To ensure that changes in the GC/MS sensitivity and response do not affect sample analysis results IS compounds are added to each sample prior to analysis. All results are then calculated as a ratio of the IS responses.

The sample IS results were evaluated against the following criteria:

i) The retention time of the IS must not vary more than ±30 seconds from the associated calibration standard

ii) IS area counts must not vary by more than a factor of two (-50 percent to +100 percent) from the associated calibration standard

All VOC IS recoveries and retention times met the above criteria.

9. Laboratory Control Sample Analyses

LCSs are prepared and analyzed as samples to assess the analytical efficiencies of the methods employed, independent of sample matrix effects.

For this study, LCSs were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

The LCS contained all compounds of interest or the compounds specified in the method. All LCS recoveries were within the laboratory control limits demonstrating acceptable analytical accuracy.

10. Analyte Reporting

The laboratory reported detected results down to the laboratory's method detection limit (MDL) for each analyte adjusted for specific sample dilutions and volumes. Positive analyte detections less than the reporting limit (RL) but greater than the sample-specific MDL were qualified as estimated (J) in Table 2. Non-detect results were presented as non-detect at the sample specific MDL in Table 2.

Soil samples were reported on dry weight basis.

11. Target Compound Identification

To minimize erroneous compound identification during organic analyses, qualitative criteria including compound retention time and mass spectra (if applicable) were evaluated according to the identification criteria established by the methods. The samples identified in Table 1 were reviewed. The organic compounds reported adhered to the specified identification criteria.

12. Conclusion

Based on the assessment detailed in the foregoing, the data summarized in Table 2 are acceptable without qualification.

Table 1

Sample Collection and Analysis Summary
Soil Sampling for Gas Probe Installation
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January 2019

Sample Identification	Location	Start Depth (ft bgs)	End Depth (ft bgs)	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters: VOCs	Analysis/Parameters: Fraction of Organic Carbon	Analysis/Parameters: Grain Size	Comments
S-38443-011519-JC-153	GP35-19	10	11	Soil	01/15/2019	10:00	X	X	X	
S-38443-011519-JC-154	GP08-19	11.67	12.67	Soil	01/15/2019	11:45	X	X	X	

Notes:

ft bgs - Feet below ground surface
VOCs - Volatile Organic Compounds

Table 2

Analytical Results Summary
Soil Smapling for Gas Probe Installation
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January 2019

	Location ID:	**GP08-19**	**GP35-19**
	Sample Name:	**S-38443-011519-JC-154**	**S-38443-011519-JC-153**
	Sample Date:	**01/15/2019**	**01/15/2019**
	Depth:	**11.67-12.67 ft BGS**	**10-11 ft BGS**
Parameters	**Unit**		
Volatile Organic Compounds			
1,1,1-Trichloroethane	µg/kg	0.82 U	0.78 U
1,1,2,2-Tetrachloroethane	µg/kg	1.4 U	1.4 U
1,1,2-Trichloroethane	µg/kg	1.1 U	1.1 U
1,1-Dichloroethane	µg/kg	0.69 U	0.66 U
1,1-Dichloroethene	µg/kg	0.90 U	0.86 U
1,2,4-Trichlorobenzene	µg/kg	0.57 U	0.55 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	3.6 U	3.4 U
1,2-Dibromoethane (Ethylene dibromide)	µg/kg	0.77 U	0.73 U
1,2-Dichlorobenzene	µg/kg	1.1 U	1.1 U
1,2-Dichloroethane	µg/kg	0.77 U	0.74 U
1,2-Dichloropropane	µg/kg	0.85 U	0.81 U
1,3-Dichlorobenzene	µg/kg	0.82 U	0.78 U
1,4-Dichlorobenzene	µg/kg	0.88 U	0.84 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	3.6 U	3.4 U
2-Hexanone	µg/kg	4.1 U	3.9 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	3.7 U	3.5 U
Acetone	µg/kg	21 U	120
Benzene	µg/kg	0.70 U	0.67 U
Bromodichloromethane	µg/kg	0.68 U	0.65 U
Bromoform	µg/kg	2.4 U	2.3 U
Bromomethane (Methyl bromide)	µg/kg	0.99 U	0.94 U
Carbon disulfide	µg/kg	1.2 U	1.1 U
Carbon tetrachloride	µg/kg	3.3 U	3.1 U
Chlorobenzene	µg/kg	0.92 U	0.87 U
Chloroethane	µg/kg	1.2 U	1.2 U
Chloroform (Trichloromethane)	µg/kg	0.79 U	0.75 U
Chloromethane (Methyl chloride)	µg/kg	1.0 U	0.99 U
cis-1,2-Dichloroethene	µg/kg	0.65 U	0.62 U
cis-1,3-Dichloropropene	µg/kg	1.4 U	1.4 U
Cyclohexane	µg/kg	1.4 U	1.3 U
Dibromochloromethane	µg/kg	2.8 U	2.7 U
Dichlorodifluoromethane (CFC-12)	µg/kg	0.94 U	0.90 U
Ethylbenzene	µg/kg	1.0 U	1.0 U
Isopropyl benzene	µg/kg	0.83 U	0.79 U
Methyl acetate	µg/kg	3.4 U	3.2 U
Methyl cyclohexane	µg/kg	1.2 U	1.2 U
Methyl tert butyl ether (MTBE)	µg/kg	0.82 U	0.78 U
Methylene chloride	µg/kg	12 U	11 U
Styrene	µg/kg	1.2 U	1.1 U

Table 2

Analytical Results Summary
Soil Smapling for Gas Probe Installation
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January 2019

	Location ID:	**GP08-19**	**GP35-19**
	Sample Name:	**S-38443-011519-JC-154**	**S-38443-011519-JC-153**
	Sample Date:	**01/15/2019**	**01/15/2019**
	Depth:	**11.67-12.67 ft BGS**	**10-11 ft BGS**
Parameters	**Unit**		
Tetrachloroethene	µg/kg	0.73 U	0.70 U
Toluene	µg/kg	1.0 J	0.74 U
trans-1,2-Dichloroethene	µg/kg	0.46 U	0.44 U
trans-1,3-Dichloropropene	µg/kg	1.0 U	0.99 U
Trichloroethene	µg/kg	0.63 U	0.60 U
Trichlorofluoromethane (CFC-11)	µg/kg	1.1 U	1.0 U
Trifluorotrichloroethane (CFC-113)	µg/kg	1.3 U	1.2 U
Vinyl chloride	µg/kg	0.84 U	0.80 U
Xylenes (total)	µg/kg	1.6 U	1.5 U
General Chemistry			
Fraction organic carbon (FOC)	%	0.5	0.4
Geotechnical Parameters			
Coarse sand	%	6.9	13.1
Fine sand	%	20.2	13.3
Fines	%	14.4	15.1
Gravel	%	33.9	32.8
Medium sand	%	24.6	25.7
Sand	%	51.7	52.1
Sieve, #10	% passed	59.2	54.1
Sieve, #100	% passed	16.9	17.9
Sieve, #20	% passed	49.8	43.1
Sieve, #200	% passed	14.4	15.1
Sieve, #4	% passed	66.1	67.2
Sieve, #40	% passed	34.6	28.4
Sieve, #60	% passed	21.7	21.4
Sieve, #80	% passed	18.2	19.0
Sieve, 0.375 inch	% passed	71.8	80.7
Sieve, 0.75 inch	% passed	81.8	93.9
Sieve, 1 inch	% passed	100.0	100.0
Sieve, 1.5 inch	% passed	100.0	100.0
Sieve, 2 inch	% passed	100.0	100.0
Sieve, 3 inch	% passed	100.0	100.0

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit

Table 3

Analytical Methods
Soil Sampling for Gas Probe Installation
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January 2019

Parameter	Method	Matrix	Holding Time	
			Collection to Extraction (Days)	Collection or Extraction to Analysis (Days)
Volatile Organic Compounds (VOCs)	SW-846 8260B	Soil	48 hours	14
Fraction of Organic Carbon	ASTM D2974	Soil	-	28
Grain Size	ASTM D422	Soil	-	-

Notes:

- - Not applicable
ASTM - American Society for Testing and Materials
SW-846 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, 1986, with subsequent revisic

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